# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

# **FORM 10-Q**

# ☑ QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the quarterly period ended June 30, 2017

OR

☐ TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

Commission File Number 001-37368

# ADAPTIMMUNE THERAPEUTICS PLC

(Exact name of Registrant as specified in its charter)

**England and Wales** 

(State or other jurisdiction of incorporation or organization)

Not Applicable

(I.R.S. Employer Identification No.)

60 Jubilee Avenue, Milton Park Abingdon, Oxfordshire OX14 4RX United Kingdom (44) 1235 430000

(Address of principal executive offices)

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days.

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). 

Yes 
No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer □
Non-accelerated filer □

Accelerated filer ⊠

Smaller reporting company □

Emerging growth company ⊠

If an emerging growth company, indicate by check mark if the registrant has elected to use the extended transition period for complying with any new or revised financial accounting standard provided pursuant to Section 13(a) of the Exchange Act.  $\Box$ 

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act).  $\square$  Yes  $\boxtimes$  No

As of August 3, 2017 the number of outstanding ordinary shares par value £0.001 per share of the Registrant is 561,114,526.

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#### General information

In this Quarterly Report on Form 10-Q ("Quarterly Report"), "Adaptimmune," the "Group," the "Company," "we," "us" and "our" refer to Adaptimmune Therapeutics plc and its consolidated subsidiaries, except where the context otherwise requires.

# **Information Regarding Forward-Looking Statements**

This Quarterly Report contains forward-looking statements that are based on our current expectations, assumptions, estimates and projections about us and our industry. All statements other than statements of historical fact in this Quarterly Report are forward-looking statements.

These forward-looking statements are subject to known and unknown risks, uncertainties, assumptions and other factors that could cause our actual results of operations, financial condition, liquidity, performance, prospects, opportunities, achievements or industry results, as well as those of the markets we serve or intend to serve, to differ materially from those expressed in, or suggested by, these forward-looking statements. These forward-looking statements are based on assumptions regarding our present and future business strategies and the environment in which we expect to operate in the future. Important factors that could cause those differences include, but are not limited to:

- our ability to advance our NY-ESO SPEAR T-cells to a point where GlaxoSmithKline, or GSK, exercises the option to license the product and the scope and timing of performance of our ongoing collaboration with GSK;
- · our ability to successfully advance our MAGE-A10, MAGE-A4 and AFP SPEAR T-cells through clinical development and the timing within which we can recruit patients in to and treat patients in our clinical trials;
- · our ability to further develop our commercial manufacturing process for our SPEAR T-cells, transfer such commercial process to third party contract manufacturers and for such third party contract manufacturers to manufacture SPEAR T-cells to the quality and on the timescales we require;
- · the success, cost and timing of our product development activities and clinical trials;
- our ability to successfully advance our SPEAR T-cell technology platform to improve the safety and effectiveness of our existing SPEAR T-cell candidates and to submit Investigational New Drug Applications, or INDs, for new SPEAR T-cell candidates;
- · the rate and degree of market acceptance of T-cell therapy generally, and of our SPEAR T-cells;
- · government regulation and approval, including, but not limited to, the expected regulatory approval timelines for TCR therapeutic candidates;
- patents, including, any inability to obtain third party licenses, legal challenges thereto or enforcement of patents against us;
- · the level of pricing and reimbursement for our SPEAR T-cells, if approved for marketing;
- · general economic and business conditions or conditions affecting demand for our SPEAR T-cells in the markets in which we operate, both in the United States and internationally;
- · volatility in equity markets in general and in the biopharmaceutical sector in particular;
- · fluctuations in the price of materials and bought-in components;
- · our relationships with suppliers and other third-party providers;
- $\cdot \ \ \text{increased competition from other companies in the biotechnology and pharmaceutical industries};$
- $\cdot$  claims for personal injury or death arising from the use of our SPEAR T-cell candidates;
- · changes in our business strategy or development plans, and our expected level of capital expenses;
- · our ability to attract and retain qualified personnel;

- · a change in our status as an emerging growth company under the Jumpstart Our Business Start-ups Act of 2012, or JOBS Act;
- · uncertainty about the future relationship between the United Kingdom and the European Union; and
- · additional factors that are not known to us at this time.

Additional factors that could cause actual results, financial condition, liquidity, performance, prospects, opportunities, achievements or industry results to differ materially include, but are not limited to, those discussed under "Risk Factors" in Part II, Item 1A in this Quarterly Report and in our other filings with the Securities and Exchange Commission (the "SEC"). Additional risks that we may currently deem immaterial or that are not presently known to us could also cause the forward-looking events discussed in this Quarterly Report not to occur. The words "believe," "may," "will," "estimate," "continue," "anticipate," "intend," "expect" and similar words are intended to identify estimates and forward-looking statements. Estimates and forward-looking statements speak only at the date they were made, and we undertake no obligation to update or to review any estimate and/or forward-looking statement because of new information, future events or other factors. Estimates and forward-looking statements involve risks and uncertainties and are not guarantees of future performance. Our future results may differ materially from those expressed in these estimates and forward-looking statements. In light of the risks and uncertainties described above, the estimates and forward-looking statements due to, inclusive of, but not limited to, the factors mentioned above. Because of these uncertainties, you should not make any investment decision based on these estimates and forward-looking statements.

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#### PART I — FINANCIAL INFORMATION

#### Item 1. Financial Statements.

# ADAPTIMMUNE THERAPEUTICS PLC UNAUDITED CONDENSED CONSOLIDATED BALANCE SHEETS (in thousands, except share data)

|  | June 30,<br>2017 | D  | December 31,<br>2016 |  |  |
|--|------------------|----|----------------------|--|--|
| Assets   |                  |    |                      |  |  |
| Current assets   |                  |    |                      |  |  |
| Cash and cash equivalents  | \$<br>121,998    | \$ | 158,779              |  |  |
| Short-term deposits  | 18,000           |    | 22,694               |  |  |
| Marketable securities - available for sale debt securities   | 80,023           |    | _                    |  |  |
| Accounts receivable, net of allowance for doubtful accounts of \$- and \$-                                     | 1,406            |    | 1,480                |  |  |
| Other current assets and prepaid expenses (including current portion of clinical materials)                    | <br>16,317       |    | 15,798               |  |  |
| Total current assets   | 237,744          |    | 198,751              |  |  |
| Restricted cash  | 4,156            |    | 4,017                |  |  |
| Clinical materials   | 2,026            |    | 2,580                |  |  |
| Property, plant and equipment, net   | 38,922           |    | 27,899               |  |  |
| Intangibles, net   | <br>1,431        |    | 1,268                |  |  |
| Total assets   | <br>284,279      |    | 234,515              |  |  |
| Liabilities and stockholders' equity   |                  |    |                      |  |  |
| Current liabilities  |                  |    |                      |  |  |
| Accounts payable (including amounts due to related parties of \$- and \$326)                                   | 4,577            |    | 11,350               |  |  |
| Accrued expenses and other accrued liabilities (including amounts due to related parties of \$- and \$39)      | 13,372           |    | 17,528               |  |  |
| Deferred revenue   | <br>12,304       |    | 11,392               |  |  |
| Total current liabilities  | 30,253           |    | 40,270               |  |  |
| Deferred revenue, non-current  | 20,754           |    | 24,962               |  |  |
| Other liabilities, non-current   | <br>3,777        |    | 3,141                |  |  |
| Total liabilities  | 54,784           |    | 68,373               |  |  |
| Contingencies and commitments — Note 9   |                  |    |                      |  |  |
| Stockholders' equity   |                  |    |                      |  |  |
| Common stock - Ordinary shares par value £0.001, 701,103,126 authorized and 561,103,126 issued and outstanding | 0.5-             |    |                      |  |  |
| (2016: 574,711,900 authorized and 424,775,092 issued and outstanding)  | 853              |    | 683                  |  |  |
| Additional paid in capital   | 448,985          |    | 341,200              |  |  |
| Accumulated other comprehensive loss   | (16,854)         |    | (14,249)             |  |  |
| Accumulated deficit  Tital at although a maitre  | <br>(203,489)    |    | (161,492)            |  |  |
| Total stockholders' equity   | 229,495          |    | 166,142              |  |  |
| Total liabilities and stockholders' equity   | \$<br>284,279    | \$ | 234,515              |  |  |

See accompanying notes to unaudited condensed consolidated financial statements.

# ADAPTIMMUNE THERAPEUTICS PLC UNAUDITED CONDENSED CONSOLIDATED STATEMENT OF OPERATIONS

(in thousands, except share and per share data)

|  | Three months ended<br>June 30, |             |    |             |    | Six months ended<br>June 30, |    |             |  |
|--|--------------------------------|-------------|----|-------------|----|------------------------------|----|-------------|--|
|  | 2017                           |             |    | 2016        |    | 2017                         |    | 2016        |  |
| Revenue  | \$                             | 3,521       | \$ | 328         | \$ | 6,378                        | \$ | 3,246       |  |
| Operating expenses   |                                |             |    |             |    |                              |    |             |  |
| Research and development   |                                | (19,591)    |    | (16,856)    |    | (38,206)                     |    | (31,332)    |  |
| General and administrative   |                                | (7,710)     |    | (6,172)     |    | (14,173)                     |    | (11,439)    |  |
| Total operating expenses (including purchases from related parties, net of |                                |             |    |             |    |                              |    |             |  |
| reimbursements of \$178, \$536, \$780 and \$1,329)                         |                                | (27,301)    |    | (23,028)    |    | (52,379)                     |    | (42,771)    |  |
| Operating loss   |                                | (23,780)    |    | (22,700)    |    | (46,001)                     |    | (39,525)    |  |
| Interest income  |                                | 512         |    | 291         |    | 752                          |    | 550         |  |
| Interest expense   |                                | (6)         |    | _           |    | (6)                          |    | _           |  |
| Other income, net  |                                | 3,224       |    | 607         |    | 3,654                        |    | 1,656       |  |
| Loss before income taxes   |                                | (20,050)    |    | (21,802)    |    | (41,601)                     |    | (37,319)    |  |
| Income taxes   |                                | (165)       |    | (293)       |    | (396)                        |    | (352)       |  |
| Net loss attributable to ordinary shareholders                             | \$                             | (20,215)    | \$ | (22,095)    | \$ | (41,997)                     | \$ | (37,671)    |  |
|  |                                | <u> </u>    |    |             |    |                              |    | <u> </u>    |  |
| Net loss per ordinary share basic and diluted (Note 4)                     | \$                             | (0.04)      | \$ | (0.05)      | \$ | (0.09)                       | \$ | (0.09)      |  |
|  |                                |             | -  |             |    |                              |    |             |  |
| Weighted average shares outstanding, basic and diluted                     |                                | 556,776,430 |    | 424,711,900 |    | 493,392,465                  |    | 424,711,900 |  |

See accompanying notes to unaudited condensed consolidated financial statements.

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# ADAPTIMMUNE THERAPEUTICS PLC UNAUDITED CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE LOSS (in thousands)

|   | Three mon<br>June | ed | Six months ended<br>June 30, |      |          |    |          |
|---|-------------------|----|------------------------------|------|----------|----|----------|
|   | <br>2017 2016     |    |                              | 2017 |          |    | 2016     |
| Net loss  | \$<br>(20,215)    | \$ | (22,095)                     | \$   | (41,997) | \$ | (37,671) |
| Other comprehensive loss, net of tax                                |                   |    |                              |      |          |    |          |
| Foreign currency translation adjustments, net of tax of \$- and \$- | (1,192)           |    | (2,327)                      |      | (1,309)  |    | (4,872)  |
| Unrealized gains (losses) on available for sale debt securities     | (1,296)           |    | _                            |      | (1,296)  |    | _        |
|   | <br>              |    |                              |      |          |    |          |
| Total comprehensive loss for the period                             | \$<br>(22,703)    | \$ | (24,422)                     | \$   | (44,602) | \$ | (42,543) |

See accompanying notes to unaudited condensed consolidated financial statements.

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# ADAPTIMMUNE THERAPEUTICS PLC UNAUDITED CONDENSED CONSOLIDATED STATEMENT OF CHANGE IN EQUITY (in thousands, except share data)

|   | Common<br>stock | Common<br>stock | Additional<br>paid in<br>capital | 1  | Accumular compreher ccumulated foreign currency translation djustments | nsive<br>A |         | A  | ccumulated<br>deficit | Total<br>:kholders'<br>equity |
|---|-----------------|-----------------|----------------------------------|----|--|------------|---------|----|-----------------------|-------------------------------|
| Balance as of 1 January 2017  | 424,775,092     | \$<br>683       | \$<br>341,200                    | \$ | (14,249)   | \$         | _       | \$ | (161,492)             | \$<br>166,142                 |
| Net loss Issuance of common stock Issuance of shares upon exercise of | 136,201,338     | 170             | 102,997                          |    |  |            |         |    | (41,997)              | (41,997)<br>103,167           |
| stock options   | 126,696         | _               | 31                               |    |  |            |         |    |                       | 31                            |
| Other comprehensive loss Foreign currency translation adjustments     |                 |                 |                                  |    | (1,309)  |            |         |    |                       | (1,309)                       |
| Unrealized losses on available for sale debt securities               |                 |                 | 4 757                            |    | , , ,  |            | (1,296) |    |                       | (1,296)                       |
| Share-based compensation expense<br>Balance as of June 30, 2017       | 561,103,126     | \$<br>853       | \$<br>4,757<br>448,985           | \$ | (15,558)   | \$         | (1,296) | \$ | (203,489)             | \$<br>4,757<br><b>229,495</b> |

# ADAPTIMMUNE THERAPEUTICS PLC UNAUDITED CONDENSED CONSOLIDATED STATEMENT OF CASH FLOWS (in thousands)

|  | Six months<br>June 3 |             |
|--|----------------------|-------------|
|  | 2017                 | 2016        |
| Cash flows from operating activities   |                      |             |
| Net loss   | \$<br>(41,997)       | \$ (37,671) |
| Adjustments to reconcile net loss to net cash used in operating activities:            |                      |             |
| Depreciation   | 2,023                | 1,512       |
| Amortization   | 159                  | 82          |
| Share-based compensation expense   | 4,757                | 4,541       |
| Loss on disposal of property, plant and equipment                                      | 194                  | _           |
| Unrealized foreign exchange gains  | (3,206)              | (2,004)     |
| Changes in operating assets and liabilities:   |                      |             |
| Increase in receivables and other operating assets                                     | 2,301                | 601         |
| (Increase) decrease in non-current operating assets                                    | (554)                | 2,041       |
| Decrease in payables and deferred revenue  | <br>(10,125)         | (4,274)     |
| Net cash used in operating activities  | (46,448)             | (35,172)    |
| Cash flows from investing activities   |                      |             |
| Acquisition of property, plant and equipment   | (21,188)             | (2,910)     |
| Acquisition of intangibles   | (266)                | (861)       |
| Proceeds from disposal of property, plant and equipment                                | 550                  |             |
| Maturity of short-term deposits  | 22,857               | 41,661      |
| Investment in short-term deposits  | (18,000)             | (42,837)    |
| Investment in marketable securities  | (79,774)             | ` _ `       |
| Net cash used in investing activities  | <br>(95,821)         | (4,947)     |
|  |                      |             |
| Cash flows from financing activities   |                      |             |
| Proceeds from issuance of common stock, after offering expenses of \$4,774             | 103,167              | _           |
| Proceeds from exercise of stock options  | <br>31               |             |
| Net cash provided by financing activities  | 103,198              | _           |
| Effect of currency exchange rate changes on cash, cash equivalents and restricted cash | 2,429                | (3,529)     |
| Net decrease in cash and cash equivalents  | <br>(36,642)         | (43,648)    |
| Cash, cash equivalents and restricted cash at start of period                          | 162,796              | 198,771     |
| Cash, cash equivalents and restricted cash at end of period                            | \$<br>126,154        | \$ 155,123  |

See accompanying notes to unaudited condensed consolidated financial statements.

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# ADAPTIMMUNE THERAPEUTICS PLC NOTES TO UNAUDITED CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

# Note 1 - General

Adaptimmune Therapeutics plc is registered in England and Wales. Its registered office is 60 Jubilee Avenue, Milton Park, Abingdon, Oxfordshire, OX14 4RX, United Kingdom. Adaptimmune Therapeutics plc and its subsidiaries (collectively "Adaptimmune" or the "Company") is a clinical-stage biopharmaceutical company focused on novel cancer immunotherapy products based on its proprietary SPEAR (Specific Peptide Enhanced Affinity Receptor) T-cell platform. The Company has developed a comprehensive proprietary platform that enables it to identify cancer targets, find and genetically engineer T-cell receptors ("TCRs"), and produce TCR therapeutic candidates for administration to patients. The Company engineers TCRs to increase their affinity to cancer specific peptides in order to destroy cancer cells in patients.

The Company is subject to a number of risks similar to other biopharmaceutical companies in the early stage including, but not limited to, the need to obtain adequate additional funding, possible failure of preclinical programs or clinical programs, the need to obtain marketing approval for its SPEAR T-cells, competitors developing new technological innovations, the need to successfully commercialize and gain market acceptance of the Company's SPEAR T-cells, the need to develop a suitable commercial manufacturing process and protection of proprietary technology. If the Company does not successfully commercialize any of its SPEAR T-cells, it will be unable to generate product revenue or achieve profitability. The Company had an accumulated deficit of \$203.5 million as of June 30, 2017.

# Note 2 - Summary of Significant Accounting Policies

#### (a) Basis of presentation

The condensed consolidated interim financial statements of Adaptimmune Therapeutics plc and its subsidiaries and other financial information included in this Quarterly Report are unaudited and have been prepared in accordance with generally accepted accounting principles in the United States of America ("U.S. GAAP") and are presented in U.S. dollars. All significant intercompany accounts and transactions between the Company and its subsidiaries have been eliminated on consolidation.

The unaudited condensed interim financial statements presented in this Quarterly Report should be read in conjunction with the consolidated financial statements and accompanying notes included in the Company's Annual Report on Form 10-K filed with the SEC on March 13, 2017 (the "Annual Report"). The balance sheet as of

December 31, 2016 was derived from audited consolidated financial statements included in the Company's Annual Report but does not include all disclosures required by U.S. GAAP. The Company's significant accounting policies are described in Note 2 to those consolidated financial statements.

Certain information and footnote disclosures normally included in financial statements prepared in accordance with U.S. GAAP have been condensed or omitted from these interim financial statements. However, these interim financial statements include all adjustments, consisting only of normal recurring adjustments, which are, in the opinion of management, necessary to fairly state the results of the interim period. The interim results are not necessarily indicative of results to be expected for the full year.

#### (b) Use of estimates in interim financial statements

The preparation of interim financial statements, in conformity with U.S. GAAP and SEC regulations, requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, disclosure of contingent assets and liabilities at the date of the consolidated financial statements and reported amounts of revenues and expenses during the reporting period. Estimates and assumptions are primarily made in relation to the valuation of share options, valuation allowances relating to deferred tax assets, revenue recognition, estimating clinical trial expenses and estimating reimbursements from R&D tax and expenditure credits. If actual results differ from the Company's estimates, or to the extent these estimates are adjusted in future periods, the Company's results of operations could either benefit from, or be adversely affected by, any such change in estimate.

#### (c) Going concern

Management considers that there are no conditions or events, in the aggregate, that raise substantial doubt about the entity's ability to continue as a going concern for a period of at least one year from the date the financial statements are issued. This evaluation is based on relevant conditions and events that are known and reasonably knowable at the date that the financial statements are issued, including:

- a. The Company's current financial condition, including its liquidity sources;
- b. The Company's conditional and unconditional obligations due or anticipated within one year;
- c. The funds necessary to maintain the Company's operations considering its current financial condition, obligations, and other expected cash flows; and
- d. Other conditions and events, when considered in conjunction with the above that may adversely affect the Company's ability to meet its obligations.

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#### (d) Reclassification

The Company has reclassified certain amounts between research and development and general and administrative expenses in prior periods to conform the presentation to the current period due to misclassification errors. Specifically in the three and six months ended June 30, 2016, legal expenses relating to patents of \$87,000 and \$149,000 have been reclassified from research and development expenses to general administrative expenses, respectively, and certain property and insurance costs relating to research and development facilities of \$724,000 and \$1,374,000 have been reclassified from general and administrative expenses to research and development expenses, respectively.

The Company has assessed the materiality of the classification errors in the prior period in accordance with the SEC's guidance on assessing materiality, Staff Accounting Bulletin No. 99, *Materiality*, and determined that the errors are quantitatively and qualitatively not material.

The operating expenses for comparative periods as previously reported and as presented after the reclassifications are as follows (in thousands):

|                            |      |                        | nths ended<br>0, 2016 | l                   | Six months ended<br>June 30, 2016 |               |    |                  |  |
|----------------------------|------|------------------------|-----------------------|---------------------|-----------------------------------|---------------|----|------------------|--|
|                            | As p | As previously reported |                       | As previously After |                                   | As previously |    | After            |  |
|                            | r    |                        |                       | reclassification    |                                   | reported      |    | reclassification |  |
| Research and development   | \$   | 16,219                 | \$                    | 16,856              | \$                                | 30,107        | \$ | 31,332           |  |
| General and administrative |      | 6,809                  |                       | 6,172               |                                   | 12,664        |    | 11,439           |  |
| Total operating expenses   | \$   | 23,028                 | \$                    | 23,028              | \$                                | 42,771        | \$ | 42,771           |  |

#### (e) Cash, cash equivalents and restricted cash

The Company considers all highly-liquid investments with a maturity at acquisition date of three months or less to be cash equivalents. Cash and cash equivalents comprise cash balances and deposits with maturities of three months or less. The cash and cash equivalents and short-term deposits are held with multiple banks and we monitor the credit rating of those banks. The Company maintains cash balances in excess of amounts insured by the Federal Deposit Insurance Corporation in the U.S. and the UK Government Financial Services Compensation Scheme in the U.K.

The Company's restricted cash consists of cash providing security for letters of credit in respect of lease agreements.

The following table provides a reconciliation of cash, cash equivalents, and restricted cash reported within the balance sheet that sum to the total of the same such amounts shown in the statement of cash flows (in thousands).

|  | June 30,<br>2017 | De | ecember 31,<br>2016 |
|--|------------------|----|---------------------|
| Cash and cash equivalents  | \$<br>121,998    | \$ | 158,779             |
| Restricted cash  | 4,156            |    | 4,017               |
| Total cash, cash equivalents, and restricted cash shown in the statement of cash flows | \$<br>126,154    | \$ | 162,796             |

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#### (f) Available-for-sale securities

At June 30, 2017, the Company has the following investments in available-for-sale debt securities, which are categorized as cash equivalents or marketable securities – available-for-sale debt securities on the balance sheet depending on their maturity at acquisition (in thousands):

|                                    |                    | A  | Amortized | Gross<br>Unrealized | Gross<br>Unrealized | Foreign<br>currency<br>translation |    | Aggregate<br>Estimated |
|------------------------------------|--------------------|----|-----------|---------------------|---------------------|------------------------------------|----|------------------------|
|                                    | Maturity           |    | cost      | Gains               | Losses              | adjustment                         |    | Fair Value             |
| Cash equivalents:                  |                    |    | _         |                     | _                   |                                    | _  |                        |
| Corporate debt securities          | Less than 3 months | \$ | 2,052     | \$<br>              | \$<br>(63)          | \$<br>62                           | \$ | 2,051                  |
|                                    |                    | \$ | 2,052     | \$<br>              | \$<br>(63)          | \$<br>62                           | \$ | 2,051                  |
|                                    |                    |    | <u>.</u>  |                     |                     |                                    |    |                        |
| Marketable securities – available- |                    |    |           |                     |                     |                                    |    |                        |
| for-sale debt securities:          |                    |    |           |                     |                     |                                    |    |                        |
| Corporate debt securities          | 3 months to 1 year | \$ | 73,601    | \$                  | \$<br>(1,132)       | \$<br>1,068                        | \$ | 73,537                 |
| Corporate debt securities          | 1 to 2 years       |    | 6,495     |                     | (101)               | 92                                 |    | 6,486                  |
|                                    |                    | \$ | 80,096    | \$<br>              | \$<br>(1,233)       | \$<br>1,160                        | \$ | 80,023                 |

Management determines the appropriate classification of its investments in debt securities at the time of purchase and reevaluates such designation as of each reporting date. The securities are classified as current or non-current marketable securities – available-for-sale debt securities based on the maturity dates and management's intentions.

At June 30, 2017, the Company has classified all of its available-for-sale debt securities, including those with maturities beyond one year, as current assets on the accompanying consolidated balance sheets based on the highly-liquid nature of these investment securities and because these investment securities are considered available for use in current operations.

The investment in available-for-sale debt securities are measured at fair value at each reporting date. Unrealized gains and losses are excluded from earnings and are reported as a component of comprehensive loss. Realized gains and losses, interest income and amortization of premiums and discounts at acquisition are included in other income (expense), net. There were no realized gains or losses recognized on the maturity of available-for-sale securities during the three and six months ended June 30, 2017 and, as a result, the Company did not reclassify any amount out of accumulated other comprehensive loss for the same period.

At each reporting date, the Company assesses whether each individual investment is impaired, which occurs if the fair value is less than the amortized cost, adjusted for amortization of premiums and discounts at acquisition. If the investment is impaired, the impairment is assessed to determine if it is other than temporary. Impairments judged to be other than temporary are included in other income (expense), net when they are identified. At June 30, 2017, the Company had 37 available-for-sale debt securities in an unrealized loss position with an aggregate fair value of \$82,074,000 and an aggregate amount of unrealized losses of \$1,296,000. No securities have been in an unrealized loss position for more than one year. At June 30, 2017, these securities are not considered to be other than temporarily impaired because the impairments are not severe, have been for a short duration and are due to normal market and exchange rate fluctuations. Furthermore, the Company does not intend to sell the debt securities and it is not more-likely-than-not that the Company will be required to sell the securities before the recovery of the amortized cost.

The cost of securities sold is based on the specific-identification method. Interest on debt securities is included in interest income.

Our investment in corporate debt securities are subject to credit risk. The Company's investment policy limits investments to certain types of instruments, such as money market instruments and corporate debt securities, places restrictions on maturities and concentration by type and issuer and specifies the minimum credit ratings for all investments and the average credit quality of the portfolio.

#### (g) Fair value measurements

The Company is required to disclose information on all assets and liabilities reported at fair value that enables an assessment of the inputs used in determining the reported fair values. The fair value hierarchy prioritizes valuation inputs based on the observable nature of those inputs. The hierarchy defines three levels of valuation inputs:

Level 1 — Quoted prices in active markets for identical assets or liabilities

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- Level 2 Inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly
- Level 3 Unobservable inputs that reflect the Company's own assumptions about the assumptions market participants would use in pricing the asset or liability

The carrying amounts of the Company's cash and cash equivalents, short-term deposits, restricted cash, accounts receivable, accounts payable and accrued expenses approximate fair value because of the short-term nature of these instruments. The fair value of marketable securities, which are measured at fair value on a recurring basis is detailed in Note 5, *Fair value measurements*.

# (h) Related parties

The Company has historically entered into several agreements with Immunocore Limited ("Immunocore"). During the six months ended June 30, 2017 Immunocore has invoiced the Company in respect of: (i) services provided under a target collaboration agreement (which terminated on March 1, 2017); (ii) costs relating to prosecution of jointly owned patents; and (iii) property rents.

During the six months ended June 30, 2017, all of the Company's U.K-based research and development and corporate staff moved into the Company's new building at Milton Park, Oxfordshire ("Building 60"), which comprises laboratory and office space. Consequently, the Company's lease from Immunocore of premises formerly used for research and development terminated on June 1, 2017 and the Company received \$550,000 in relation to leasehold improvements as provided for under the lease. The lease of the Company's former corporate office premises was assigned to Immunocore effective from July 1, 2017 in a transaction on arms-length terms.

As of the closing of the Company's registered direct offering of its American Depositary Shares on April 10, 2017, Immunocore ceased to hold 5% or more of the Company's shares.

#### (i) New accounting pronouncements

Adopted in the period

# Intra-Entity Transfers of Assets Other Than Inventory

The Company has adopted Accounting Standards Update ("ASU") ASU 2016-16 -Income Taxes: Intra-Entity Transfers of Assets Other Than Inventory issued by the Financial Accounting Standards Board ("FASB") in October 2016, which requires that entities recognize the income tax consequences of an intra-entity transfer of an asset other than inventory when the transfer occurs. The guidance has been adopted on a modified retrospective basis through a cumulative-effect adjustment directly to retained

earnings as of the beginning of the period of adoption prospectively to all arrangements entered into or materially modified after January 1, 2017. The adoption of this guidance did not have any impact on the financial position, results of operations or cash flows.

To be adopted in future periods

#### Revenue from contracts with customers

In May 2014, the FASB issued ASU 2014-09 -Revenue from Contracts with Customers ("ASU 2014-09") which requires a new approach to revenue recognition and in March, April, May and December 2016, the FASB issued additional clarification related to this guidance. The core principle of the guidance is that an entity should recognize revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. To achieve that core principle, an entity should apply the following steps:

- Step 1: Identify the contract(s) with a customer.
- Step 2: Identify the performance obligations in the contract.
- Step 3: Determine the transaction price.
- Step 4: Allocate the transaction price to the performance obligations in the contract.
- Step 5: Recognize revenue when (or as) the entity satisfies a performance obligation.

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The guidance is effective for the fiscal year beginning January 1, 2018, including interim reporting periods within that reporting period. Earlier application is permitted. The Company intends to adopt the guidance with effect from January 1, 2018. The guidance can be adopted retrospectively to each prior reporting period presented, subject to certain practical expedients, or retrospectively with the cumulative effect of initially applying the guidance recognized at the date of initial application.

The Company is in the process of assessing the impact of the guidance as it relates to its collaboration and license agreement with GSK (the "GSK Collaboration and License Agreement"). Based on our preliminary assessment, we have identified the performance obligations within the contract and determined the transaction price, which is allocated to the performance obligations and recognized over time. Several issues remain to be resolved, which may have a material effect on the Company's financial statements therefore the quantitative effect of adopting ASU 2014-09 cannot be reasonably estimated at this time. Once our assessment is complete, the Company will determine the transition method which will be applied and evaluate the disclosure requirements. The Company continues to monitor additional changes, modifications, clarifications or interpretations undertaken by the FASB, which may impact its assessment.

#### Accounting for leases

In February 2016, the FASB issued ASU 2016-02 -*Leases*. The guidance requires that lessees recognize a lease liability, which is a lessee's obligation to make lease payments arising from a lease, measured on a discounted basis; and a right-of-use asset, which is an asset that represents the lessee's right to use, or control the use of, a specified asset for the lease term at the commencement date. The guidance also makes targeted improvements to align lessor accounting with the lessee accounting model and guidance on revenue from contracts with customers. The guidance is effective for the fiscal year beginning January 1, 2019, including interim periods within that fiscal year. Early application is permitted. The guidance must be adopted on a modified retrospective transition approach for leases existing, or entered into after, the beginning of the earliest comparative period presented in the financial statements. The Company is currently evaluating the impact of the guidance on the consolidated financial statements.

#### Recognition and measurement of financial assets and financial liabilities

In January 2016, the FASB issued ASU 2016-01 -Financial Instruments - Overall: Recognition and Measurement of Financial Assets and Financial Liabilities, which amended the guidance on the recognition and measurement of financial assets and financial liabilities. The new guidance requires that equity investments (except those accounted for under the equity method of accounting, or those that result in consolidation of the investee) are measured at fair value with changes in fair value recognized in net income. The guidance also requires the use of an exit price when measuring the fair value of financial instruments for disclosure purposes, eliminates the requirement to disclose the methods and significant assumptions used to estimate the fair value that is required to be disclosed for financial instruments measured at amortized cost and requires separate presentation of financial assets and financial liabilities by measurement category and form of financial asset. The guidance is effective for the fiscal year beginning January 1, 2018, including interim periods within that fiscal year. The Company does not believe the adoption of the guidance will have a material impact on the consolidated financial statements.

#### Note 3 — Revenue

The revenue recognized to date relates to the upfront fee and non-substantive development milestone payments received under the GSK Collaboration and License Agreement, which are being recognized in revenue using the proportional performance model systematically over the period in which the Company is delivering services under the GSK Collaboration and License Agreement, which is determined to be the period until GSK's option to obtain licenses expires.

#### Note 4 — Loss per share

There were 67,082,914 and 46,127,274 options over ordinary shares outstanding at June 30, 2017 and June 30, 2016, respectively. The options over ordinary shares, which are potentially dilutive equity instruments, have been excluded from the diluted loss per share calculation for the three and six months ended June 30, 2017 and 2016, respectively, because they would have an antidilutive effect on the loss per share for the period.

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#### Note 5 — Fair value measurements

Assets and liabilities measured at fair value on a recurring basis based on Level 1, Level 2, and Level 3 fair value measurement criteria as of June 30, 2017 are as follows (in thousands):

| June 30, | F       | ıg      |         |
|----------|---------|---------|---------|
| 2017     | Level 1 | Level 2 | Level 3 |

Assets:

| Money market funds        | \$<br>17,979 \$ | 17,979 \$ | — \$ | _ |
|---------------------------|-----------------|-----------|------|---|
| Corporate debt securities | 2,051           | 2,051     | _    | _ |
| Marketable securities:    |                 |           |      |   |
| Corporate debt securities | \$<br>80,023 \$ | 80,023 \$ | — \$ | _ |

The Company estimates the fair value of corporate debt securities with the aid of a third party valuation service, which uses actual trade and indicative prices sourced from third-party providers on a daily basis to estimate the fair value. The carrying value of money market funds is based on publicly available quoted market prices for identical securities.

# Note 6 — Property, plant and equipment, net

Property, plant and equipment, net consisted of the following (in thousands):

|                               | June 30,<br>2017 | December 31,<br>2016       |
|-------------------------------|------------------|----------------------------|
| Computer equipment            | \$               | 2,214 \$ 1,90              |
| Laboratory equipment          | 1                | 15,157 11,423              |
| Office equipment              |                  | 406 265                    |
| Leasehold improvements        | 1                | 19,044 4,498               |
| Assets under construction     |                  | 8,350 14,332               |
|                               |                  | 45,171 32,422              |
| Less accumulated depreciation |                  | (6,249) (4,523             |
|                               | \$               | <del>38,922</del> \$ 27,89 |

Depreciation expense was \$1,037,000 and \$804,000 for the three months ended June 30, 2017 and 2016, respectively, and \$2,023,000 and \$1,512,000 for the six months ended June 30, 2017 and 2016, respectively.

#### Note 7 — Intangible assets, net

Intangible assets, net consisted of the following (in thousands):

|   | June 30,<br>2017 | D  | ecember 31,<br>2016 |
|---|------------------|----|---------------------|
| Acquired software licenses                            | \$<br>1,640      | \$ | 1,310               |
| Licensed IP rights - completed technology used in R&D | 193              |    | 183                 |
|   | 1,833            |    | 1,493               |
| Less accumulated amortization                         | (402)            |    | (225)               |
|   | \$<br>1,431      | \$ | 1,268               |

Amortization expense was \$99,000 and \$44,000 for the three months ended June 30, 2017 and 2016, respectively, and \$159,000 and \$82,000 for the six months ended June 30, 2017 and 2016, respectively.

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# Note 8 — Accrued expenses and other current liabilities

Accrued expenses and other current liabilities consisted of the following (in thousands):

|                                 | June 30,<br>2017 |          | December 31,<br>2016 |  |  |
|---------------------------------|------------------|----------|----------------------|--|--|
| Clinical & Development Accruals | \$ 5,69          | \$       | 4,938                |  |  |
| Accued employee expenses        | 4,150            | )        | 4,539                |  |  |
| Accrued capital expenditure     | 908              |          | 3,954                |  |  |
| VAT                             | _                | -        | 2,014                |  |  |
| Accrued expenses                | 2,18             | <u> </u> | 1,003                |  |  |
| Other                           | 428              | i        | 1,080                |  |  |
|                                 | \$ 13,37         | \$       | 17,528               |  |  |

The Company typically has a receivable for VAT. As of December 31, 2016 there was a VAT payable due to VAT arising on the milestone payments invoiced to GSK in 2016.

# Note 9 — Contingencies and commitments

Leases

Future minimum lease payments under operating leases at June 30, 2017 are presented below (in thousands):

|            | June 30,<br>2017 |
|------------|------------------|
| 2017       | \$<br>1,113      |
| 2018       | 3,346            |
| 2019       | 4,031            |
| 2020       | 3,906            |
| 2021       | 3,782            |
| Thereafter | 18,659           |
|            | \$<br>34,837     |

The Company leases property under operating leases expiring through 2027. Lease expenses amounted to \$1,053,000 and \$406,000 for the three months ended June 30, 2017 and 2016 and \$2,080,000 and \$831,000 for the six months ended June 30, 2017 and 2016, respectively, which is included within research and development and general and administrative expenses in the Company's unaudited consolidated statement of operations.

In May 2017, the Company entered into an agreement for the lease of a building at Milton Park, Oxfordshire, U.K. The lease has a term expiring on October 23, 2041, with termination options exercisable by the Company on the fifth anniversary of the lease commencement date and at approximately five yearly intervals thereafter. The related lease commitments are included in the table above.

Capital commitments

At June 30, 2017, the Company had commitments for capital expenditure totaling \$1,386,000, which the Company expects to incur within one year.

Commitments for clinical materials, clinical trials and contract manufacturing

At June 30, 2017, the Company had non-cancellable commitments for purchase of clinical materials, executing and administering clinical trials, and for contract manufacturing of \$59,796,000, of which the Company expects to pay \$22,119,000 within one year, \$25,237,000 in one to three years, \$11,384,000 in three to five years, and \$1,056,000 after five years. The amount and timing of these payments vary depending on the rate of progress of development and clinical trial enrollment rates. The Company's subcontracted costs for clinical trials and contract manufacturing were \$17,295,000 and \$9,876,000 for the six months ended June 30, 2017 and 2016, respectively.

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Bellicum Pharmaceuticals Inc., Co-Development and Co-Commercialization Agreement

On December 16, 2016, the Company entered into a Co-Development and Co-Commercialization Agreement with Bellicum Pharmaceuticals, Inc. ("Bellicum") in order to facilitate a staged collaboration to evaluate, develop and commercialize next generation T-cell therapies.

Under the agreement, the Company will evaluate Bellicum's GoTCR technology (inducible MyD88/CD40 co-stimulation, or iMC) with our SPEAR T-cells for the potential to create enhanced T-cell therapeutics. Depending on results of the initial preclinical proof-of-concept phase, the agreement may progress to a two-target co-development and co-commercialization phase. To the extent necessary, and in furtherance of the parties' proof-of-concept and co-development efforts, the parties granted each other a royalty-free, non-transferable, non-exclusive license covering their respective technologies for purposes of facilitating such proof-of-concept and co-development efforts. In addition, as to covered therapies developed under the agreement, the parties granted each other a reciprocal exclusive license for the commercialization of such therapies. During the proof of concept phase, each party bears its own costs and there are no payments made between the Company and Bellicum. Any research and development costs incurred by the Company with third parties have been accounted for in accordance with the Company's accounting policy for research and development expenses.

With respect to any joint commercialization of a covered therapy, the parties agreed to negotiate in good faith the commercially reasonable terms of a co-commercialization agreement. The parties also agreed that any such agreement shall provide for, among other things, equal sharing of the costs of any such joint commercialization and the calculation of profit shares as set forth in the agreement.

The agreement will expire on a country-by-country basis once the parties cease commercialization of the T-cell therapies covered by theagreement, unless earlier terminated by either party for material breach, non-performance or cessation of development, bankruptcy/insolvency, or failure to progress to co-development phase.

Merck Combination Agreement

On October 27, 2016, the Company entered into a clinical trial collaboration agreement with Merck & Co., Inc. ("Merck") (known as MSD outside the United States and Canada), for the assessment of our NY-ESO SPEAR T-cell therapy in combination with Merck's PD-1 inhibitor, KEYTRUDA® (pembrolizumab), in patients with multiple myeloma. Under the terms of the agreement, each of Merck and the Company will manufacture and supply its relevant compound for use in the combination study. Each of the Company and Merck are responsible for their own costs incurred in the performance of obligations under the agreement. Any research and development costs incurred by the Company with third parties have been accounted for in accordance with the Company's accounting policy for research and development expenses. The agreement will last until the earlier of delivery of the final study report or study completion. Either party may terminate the agreement for material breach, patient safety, regulatory action preventing supply of compound or withdrawal of regulatory approval for one of the combination study compounds. Merck may also terminate the agreement where it believes its compound is being used in an unsafe manner.

MD Anderson Strategic Alliance

On September 26, 2016, the Company announced that it had entered into a multi-year strategic alliance with The University of Texas MD Anderson Cancer Center ("MD Anderson") designed to expedite the development of T-cell therapies for multiple types of cancer. The Company and MD Anderson are collaborating on a number of studies including clinical and preclinical development of the Company's SPEAR T-cell therapies targeting NY-ESO and MAGE-A10 and will collaborate on future clinical stage first and second generation SPEAR T-cell therapies such as MAGE-A4 across a number of cancers, including bladder, lung, ovarian, head and neck, melanoma, sarcoma, esophageal and gastric cancers.

Under the terms of the agreement, the Company has committed at least \$19,644,000 to fund studies. Payment of this funding is contingent on mutual agreement to study orders in order for any study to be included under the alliance and the performance of set milestones by MD Anderson. The Company made an upfront payment of \$3,412,000 to MD Anderson in the six months ended June 30, 2017 and is obligated to make further payments to MD Anderson as certain milestones are achieved. These costs will be expensed to research and development as MD Anderson renders the services under the strategic alliance.

The agreement may be terminated by either party for material breach by the other party. Individual studies may be terminated inter alia for material breach, health and safety concerns or where the institutional review board, the review board at the clinical site with oversight of the clinical study, requests termination of any study. Where any legal or regulatory authorization is finally withdrawn or terminated, the relevant study will also terminate automatically.

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Universal Cells Research, Collaboration and License Agreement

On November 25, 2015, the Company entered into a Research, Collaboration and License Agreement relating to gene editing andHuman Leukocyte Antigen ("HLA") engineering technology with Universal Cells, Inc. ("Universal Cells"). The Company paid an upfront license and start-up fee of \$2.5 million to Universal Cells in November 2015, a milestone payment of \$3.0 million in February 2016 and a further milestone payment of \$0.5 million in March 2017. Further milestone payments of up to \$43.5 million are payable if certain development and product milestones are achieved. Universal Cells would also receive a profit-share payment for the first product, and royalties on sales of other products utilizing its technology. The upfront license and start-up fee and milestone payments were expensed to research and development when incurred.

In 2012, the Company entered into a series of license and sub-license agreements with Life Technologies Corporation, part of ThermoFisher Scientific, Inc. ("ThermoFisher") that provide the Company with a field-based exclusive license under certain intellectual property rights owned or controlled by ThermoFisher. The Company paid upfront license fees of \$1.0 million relating to the license and sublicense agreements and has an obligation to pay minimum annual royalties (in the tens of thousands of U.S. dollars prior to licensed product approval and thereafter at a level of 50% of running royalties in the previous year), milestone payments and a low single-digit running royalty payable on the net selling price of each licensed product. The upfront payment made in 2012 was expensed to research and development when incurred. Subsequent milestone payments have been recognized as an intangible asset due to the technology having alternative future use in research and development projects at the time of the payment. The minimum annual royalties have been expensed as incurred.

On June 16, 2016, the Company entered into a supply agreement with ThermoFisher for the supply of the Dynabeads® CD3/CD28 technology. The Dynabeads® CD3/CD28 technology is designed to isolate, activate and expand human T-cells, and is being used in the manufacturing of the Company's affinity enhanced T-cell therapies. The supply agreement runs until December 31, 2025. Under the supply agreement the Company is required to purchase its requirements for CD3/CD28 magnetic bead product exclusively from ThermoFisher for a period of 5 years and there are also minimum purchasing obligations, which are included within 'Purchase commitments for clinical materials, clinical trials and contract manufacturing' set forth above. ThermoFisher has the right to terminate the supply agreement for material breach or insolvency.

#### Note 10 - Share-based compensation

The following table shows the total share-based compensation expense included in the unaudited consolidated statements of operations (thousands):

|                            | Three months ended June 30, |    |       | Six months ended<br>June 30, |       |    | l     |
|----------------------------|-----------------------------|----|-------|------------------------------|-------|----|-------|
|                            | 2017                        |    | 2016  |                              | 2017  |    | 2016  |
| Research and development   | \$<br>871                   | \$ | 1,376 | \$                           | 2,229 | \$ | 2,268 |
| General and administrative | 1,201                       |    | 1,063 |                              | 2,528 |    | 2,273 |
|                            | \$<br>2,072                 | \$ | 2,439 | \$                           | 4,757 | \$ | 4,541 |

There were 1,252,176 and 1,768,243 options over ordinary shares granted in the three months ended June 30, 2017 and 2016, respectively, with a weighted average fair value of \$0.42 and \$0.89, respectively. There were 20,203,152 and 15,343,797 options over ordinary shares granted in the six months ended June 30, 2017 and 2016, respectively, with a weighted average fair value of \$0.35 and \$0.70, respectively.

At June 30, 2017, there were 3,224,600 share options granted to nonemployees outstanding. Share-based compensation expense relating to non-employee options was a benefit of \$101,000 and an expense of \$199,000 in the three months ended June 30, 2017 and 2016, respectively, and an expense of \$104,000 and a benefit of \$114,000 in the six months ended June 30, 2017 and 2016, respectively.

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#### Note 11 - Shareholders' equity

On March 27, 2017, the Company completed an underwritten public offering of the Company's American Depositary Shares ("ADSs"). The Company sold 15,700,223 ADSs (representing 94,201,338 ordinary shares) at a price to the public of \$4.20 per ADS. The net proceeds were \$61,397,000 after deducting offering expenses of \$4,544,000.

On April 10, 2017, the Company completed a registered direct offering of the Company's ADSs following its entry into a definitive agreement with Matrix Capital Management Company, LP. The Company sold 7,000,000 ADSs (representing to 42,000,000 ordinary shares) at a price of \$6.00 per ADS. The net proceeds were \$41,770,000 after deducting offering expenses of \$230,000.

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#### Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations

The statements in this discussion regarding industry outlook, our expectations regarding our future performance, liquidity and capital resources and other non-historical statements are forward-looking statements. These forward-looking statements are subject to numerous risks and uncertainties, including, but not limited to, the risks and uncertainties described in "Risk Factors" and "Forward-Looking Statements" in this Quarterly Report on Form 10-Q (our "Quarterly Report"). Our actual results may differ materially from those contained in or implied by any forward-looking statements.

The following discussion should be read in conjunction with the unaudited consolidated financial statements and accompanying notes included elsewhere in this report and the Company's consolidated financial statements and accompanying notes included within our "Annual Report".

We are a clinical-stage biopharmaceutical company focused on novel cancer immunotherapy products based on our proprietary SPEAR T-cell platform. We have developed a comprehensive proprietary platform that enables us to identify cancer targets, find and genetically engineer TCRs, and produce TCR therapeutic candidates for administration to patients. We engineer TCRs to increase their affinity to cancer specific peptides in order to destroy cancer cells in patients.

#### **Update on Clinical Pipeline Progress**

We have Phase 1/2 clinical trials ongoing with our NY-ESO, MAGE-A10, MAGE-A4 and AFP SPEAR T-cells in a total of 11 tumor types.

Our NY-ESO SPEAR T-cell has shown promising initial results in clinical trials with responses observed in all ongoing synovial sarcoma cohorts. Response rates of 50% in cohorts 1 and 4 were reported at the American Society of Clinical Oncology (ASCO) meeting on June 5, 2017 and updated survival analysis for cohort 1 showed a median predicted overall survival of 120 weeks. A 91% response rate at day 100 post autologous stem cell transplant ("ASCT") was previously reported in multiple myeloma. The NY-ESO SPEAR T-cell continues to show a promising tolerability profile to date in all clinical trials with no events of seizure, cerebral edema or encephalopathy observed. Our NY-ESO SPEAR T-cell therapy has breakthrough therapy designation in the United States and has also received orphan drug designation from the U.S. Food and Drug Administration ("FDA"), and European Commission for the treatment of soft tissue sarcoma. The European Medicines Agency ("EMA") has also granted PRIME regulatory access for our NY-ESO SPEAR T-cell therapy for the synovial sarcoma indication. We expect further clinical data during the remainder of 2017 and 2018 from ongoing studies with our SPEAR T-cells.

Our first SPEAR T-cell targets the NY-ESO-1 and LAGE-1a target peptides and is currently in clinical trials in the United States. Phase 1/2 studies are ongoing in synovial sarcoma, myxoid round cell liposarcoma ("MRCLS"), non-small cell lung cancer ("NSCLC") and ovarian cancer indications. GSK has an exclusive option over our NY-ESO SPEAR T-cell program.

As of January 5, 2017, 61 subjects have received NY-ESO SPEAR T-cells in our sponsored studies. The most common (>15%) adverse events in these subjects considered by investigators to be at least possibly related to our NY-ESO SPEAR T-cells include: fever, diarrhea, fatigue, rash, nausea, anemia, dyspnea, cytokine release syndrome ("CRS"), lymphopenia, leukopenia, cough, ALT increase, AST increase, hypotension, sinus tachycardia, neutropenia, and thrombocytopenia. For further details on adverse events please see Part II — Item 1A Risk Factors — "Our SPEAR T-cells may have undesirable side effects or have other properties that could halt their clinical development, prevent regulatory approval, limit their commercial potential or otherwise result in significant negative consequences" of our Quarterly Report.

· Our Synovial Sarcoma program:

There are four cohorts in the Phase 1/2 pilot study:

- · Cohort 1 (patients with high NY-ESO-1 antigen expression and lymphodepletion with cyclophosphamide and fludarabine) enrollment in this first cohort is now complete.
- · Cohort 2 (patients with low NY-ESO-1 antigen expression and lymphodepletion with cyclophosphamide and fludarabine) enrollment continues in this cohort.
- · Cohort 3 (patients with high NY-ESO-1 antigen expression and lymphodepletion with cyclophosphamide alone) only one confirmed response was observed in evaluable patients treated in cohort 3 and as a result, this cohort has now closed. The data from this cohort 3 suggest that fludarabine may be required as part of the pre-conditioning regimen.
- Cohort 4 (patients with high NY-ESO-1 antigen expression and lymphodepletion with a modified (lower) dose of cyclophosphamide and fludarabine) cohort 4 is open and enrolling patients. The cohort was expanded to include an additional five patients.

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The current synovial sarcoma trials are also being extended to sites outside of the United States with clinical trial applications approved in both the United Kingdom and Canada.

As of March 30, 2017, and as reported at ASCO, 39 patients have now accrued to cohorts 1-4 of our synovial sarcoma study. NY-ESO continues to be generally well-tolerated and initial anti-tumor activity has been observed in all ongoing cohorts including cohort 2 (low expressors of NY-ESO). Confirmed responses have been observed in all cohorts with a 50% response rate (60% in patients who received a target dose of at least one billion cells) and median progression free survival (PFS) of 15 weeks seen in cohort 1. Of the 12 patients treated in cohort 1, five patients remain alive with a median predicted overall survival of 120 weeks, based on data as of March 30, 2017. In cohort 2, which is ongoing, response rates of 40% were reported at ASCO. In cohort 3, one patient had a partial response and cohort has now closed. In cohort 4, which is ongoing, response rates of 50% were reported.

We are in discussions with the FDA in relation to the initiation of a pivotal trial in the synovial sarcoma indication, including discussions relating to trial design and the requirement for comparability testing for use of our manufacturing process. The start of the pivotal trial is dependent on the start and performance of analytical comparability studies between the process used initially in the synovial sarcoma pilot study and the intended commercial processes.

· Our MRCLS program:

A pilot trial in MRCLS is now active at sites in the United States. Initial data from this trial is expected in late 2017 or early 2018 epending on patient recruitment.

· Our Ovarian program:

To date, no objective clinical responses have been reported in patients. The initial patients received a preconditioning regimen which consisted of cyclophosphamide alone. The protocol for the ovarian study has now been amended to include a preconditioning regimen which includes both fludarabine and cyclophosphamide. Further data from this trial with the modified preconditioning regimen is expected in late 2017 or early 2018 depending on the rate of patient recruitment.

· Our Myeloma program:

On May 25, 2017, we announced initiation of a combination studyto evaluate the safety, pharmacodynamics, and preliminary efficacy of our NY-ESO SPEAR T-cell in combination with Merck's anti-programmed death-1 ("PD-1") inhibitor, KEYTRUDA® (pembrolizumab), in patients with multiple myeloma. Enrollment in our previous myeloma trial (with ASCT) was completed in July 2014.

· Our NSCLC program:

A trial in NSCLC opened in 2016. Enrollment has been more challenging than anticipated. Initial data is currently anticipated in 2018, butavailability of data for publication will depend on the number of patients recruited to the trial. The chemotherapy preconditioning regimen has been modified in a protocol amendment to include both fludarabine and cyclophosphamide and the NY-ESO expression requirement has been modified to at least 1+ in >10% of the cells.

The ATTACK 2 program:

In addition to the above studies which we sponsor, our NY-ESO T-cell therapeutic has also been used in an investigator-initiated clinical program funded by the European Union, the Adoptive Engineered T-cell Targeting to Activate Cancer Killing ("ATTACK 2") program.

# Our MAGE-A10 SPEAR T-cell Therapy

Clinical trials are ongoing in the United States in NSCLC and in the United States and Canada in urothelial, melanoma and head and neck cancers.

- · NSCLC: Enrollment of patients into this program has been challenging.
- · 3-tumor trial Multiple trial sites are now active in the United States and Canada.

Initial data from our MAGE-A10 SPEAR T-cell is expected in late 2017 or 2018 depending on patient enrollment.

#### Our AFP SPEAR T-cell Therapy

An IND for a clinical trial of our AFP SPEAR T-cell in hepatocellular cancer was opened in 2016 and the first site was initiated in May 2017The Phase 1 clinical trial will include a dose escalation and expansion of a tolerable dose to explore initial evidence of anti-tumor activity.

#### Our MAGE-A4 SPEAR T-cell Therapy

The IND for a clinical trial of our MAGE-A4 SPEAR T-cell in multiple solid tumors was opened at the start of 2017. Multiple sites in the United States are now active and recruiting. Initial data is anticipated in 2018.

#### Significant Events in the Three Months Ended June 30, 2017

On April 10, 2017, we completed a registered direct offering of our American Depositary Shares ("ADSs") following entry into a definitive agreement with Matrix Capital Management Company, LP. We sold 7,000,000 ADSs (representing 42,000,000 ordinary shares) at a price of \$6.00 per ADS. The net proceeds were \$41,770,000, after deducting offering expenses of \$230,000.

#### **Financial Operations Overview**

#### Revenue

Revenue represents recognized income from the GSK Collaboration and License Agreement. The GSK Collaboration and License Agreement contains the following significant deliverables, which are separate accounting units: (i) the development of, and option to obtain an exclusive license to, our NY-ESO SPEAR T-cells, and (ii) the development of, and option to obtain an exclusive license to a second target, PRAME. In addition, GSK also has the right to nominate three additional target peptides, excluding those where we have already initiated development of a SPEAR T-cell candidate, which is not considered to be a deliverable at the inception of the arrangement because it represents a substantive option not priced at a significant and incremental discount. We received an upfront payment of \$42.1 million in June 2014 and have achieved various non-substantive development milestones totaling \$39.0 million through to December 31, 2016. A milestone payment of \$1.2 million was achieved in the six months ended June 30, 2017. We are entitled to further non-substantive milestone payments based on the achievement of specified development milestones by us. If GSK exercises its option to obtain an exclusive license to a target, an option exercise fee will be payable and we will be entitled to further development and commercialization milestone payments based on achievement of specified milestones by GSK. The non-contingent arrangement consideration was allocated between the separate deliverables using our best estimate of the relative selling price. In determining the best estimate, we considered internal pricing objectives we used in negotiating the GSK Collaboration and License Agreement together with internal data regarding the cost of providing services for each deliverable.

In addition to the development milestones, we are entitled to royalties from GSK on all GSK sales of TCR therapeutic products licensed under the agreement, varying between a mid-single-digit percentage and a low-double-digit percentage of net sales. No royalties have been received as of June 30, 2017. Sales milestones also apply once any TCR therapeutic covered by the GSK Collaboration and License Agreement is approved and commercialized.

The GSK Collaboration and License Agreement is effective until all payment obligations expire. The agreement can also be terminated on a collaboration program-by-collaboration program basis by GSK for lack of feasibility or inability to meet certain agreed requirements. Both parties have rights to terminate the agreement for material breach upon 60 days' written notice or immediately upon insolvency of the other party. GSK has additional rights to terminate either the agreement or any specific license or collaboration program on provision of 60 days' notice to us. We also have rights to terminate any license where GSK ceases development or withdraws any licensed TCR therapeutic in specified circumstances.

In February 2016, the terms of the GSK Collaboration and License Agreement were expanded to accelerate the development of our NY-ESO SPEAR T-cells towards pivotal trials in synovial sarcoma, as well as the exploration of development of NY-ESO SPEAR T-cells in myxoid round-cell liposarcoma. The amendment also provides the opportunity for up to eight combination studies using NY-ESO SPEAR T-cells and increases the potential development milestones that we are eligible to receive. These development milestones will be allocated to the separate standalone deliverables within the arrangement once the milestone is achieved.

The revenue recognized to date relates to the upfront fee and non-substantive development milestones payments received, which are being recognized in revenue using the proportional performance model systematically over the period in which we are delivering services under the GSK Collaboration and License Agreement, which is determined to be the period until GSK's option to obtain licenses expires. We regularly review and monitor the performance of the GSK Collaboration and License Agreement to determine the period over which we will be delivering services to GSK.

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In May 2014, the FASB issued guidance which requires a new approach to revenue recognition effective for the fiscal year beginning January 1, 2018, including interim reporting periods within that reporting period. See Note 2(i) to the consolidated financial statements for further information.

#### Research and Development Expenses

Research and development expenses consist principally of the following:

- · salaries for research and development staff and related expenses, including benefits;
- · costs for production of preclinical compounds and drug substances by contract manufacturers;
- fees and other costs paid to contract research organizations in connection with additional preclinical testing and the performance of clinical trials;
- · costs associated with the development of a process to manufacture and supply our lentiviral vector and SPEAR T-cells for use in clinical trials;
- costs to develop manufacturing capability at our U.S. facility for manufacture of SPEAR T-cells for use in clinical trials;
- · costs relating to facilities, materials and equipment used in research and development;
- · costs of acquired or in-licensed research and development which does not have alternative future use;
- amortization and depreciation of property, plant and equipment and intangible assets used to develop our SPEAR T-cells; and

· share-based compensation expenses;

offset by:

- · reimbursements from government grants; and
- reimbursable tax and expenditure credits from the U.K. government.

Research and development expenditures are expensed as incurred.

Our research and development expenses may vary substantially from period to period based on the timing of our research and development activities, which depends upon the timing of initiation of clinical trials and the rate of enrollment of patients in clinical trials. The duration, costs, and timing of clinical trials and development of our SPEAR T-cells will depend on a variety of factors, including:

- the scope, rate of progress, and expense of our ongoing as well as any additional clinical trials and other research and development activities;
- · uncertainties in clinical trial enrollment rates;
- · future clinical trial results;
- significant and changing government regulation;
- · the timing and receipt of any regulatory approvals; and
- · supply and manufacture of lentiviral vector and SPEAR T-cells for clinical trials.

For further detail please see Part II — Item 1A Risk Factors — Risks Related to the Development of our SPEAR T-cells of our Quarterly Report.

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A change in the outcome of any of these variables may significantly change the costs and timing associated with the development of that SPEAR T cell. For example, if the FDA, or another regulatory authority, requires us to conduct clinical trials beyond those that we currently anticipate will be required for regulatory approval, or if we experience significant delays in enrollment in any of our clinical trials, we could be required to expend significant additional financial resources and time on the completion of clinical development.

#### General and Administrative Expenses

Our general and administrative expenses consist principally of:

- · salaries for employees other than research and development staff, including benefits;
- · business development expenses, including travel expenses;
- · professional fees for auditors, lawyers and other consulting expenses;
- · costs of facilities, communication, and office expenses;
- · information technology expenses;
- amortization and depreciation of property, plant and equipment and intangible assets not related to research and development activities; and
- · share-based compensation expenses.

#### Other Income (Expense), net

Other income (expense), net primarily comprises foreign exchange gains (losses). We are exposed to foreign exchange rate risk because we currently operate in the United Kingdom and United States. Our revenue from our GSK Collaboration and License Agreement is denominated in pounds sterling and is generated by our U.K.-based subsidiary, which has a pounds sterling functional currency. As a result, these sales are subject to translation into U.S. Dollars when we consolidate our financial statements. Our expenses are generally denominated in the currency in which our operations are located, which are the United Kingdom and United States. However, our U.K.-based subsidiary incurs significant research and development costs in U.S. dollars and, to a lesser extent, Euros.

Our results of operations and cash flows will be subject to fluctuations due to changes in foreign currency exchange rates, which could harm our business in the future. We seek to minimize this exposure by maintaining currency cash balances at levels appropriate to meet foreseeable expenses in U.S. dollars and pounds sterling. To date, we have not used hedging contracts to manage exchange rate exposure, although we may do so in the future.

#### Taxation

We are subject to corporate taxation in the United Kingdom and the United States. Our income tax recognized represents the tax currently payable arising on taxable profits from our U.S. subsidiary, which is subject to federal corporation tax of 34%. The U.S. subsidiary has been granted an exemption from certain state and local taxes, which we anticipate being in place for the next several years.

We incur losses in the United Kingdom. No deferred tax assets are recognized on our U.K. losses because there is currently no indication that we will make sufficient taxable profits to utilize these tax losses. Unsurrendered tax losses can be carried forward to be offset against future taxable profits. There are accumulated tax loss carry forwards in the United Kingdom amounting to \$86.0 million at December 31, 2016. These tax losses do not expire. However, draft legislation has been published for inclusion in Finance Bill (No. 2) 2017 that would, if enacted, restrict the use of carried forward tax losses from April 1, 2017, such that they would not be available for offset against more than 50% of taxable profits in any accounting period (subject to a £5 million annual allowance).

In the future, if we generate taxable income in the United Kingdom, we may benefit from the United Kingdom's "patent box" regime, which would allow certain profits attributable to revenues from patented products to be taxed at a rate that over time will be reduced to 10%. As we have many different patents covering our products, future upfront fees, milestone fees, product revenues, and royalties may be taxed at this favorably low tax rate.

VAT is charged on all qualifying goods and services by VAT-registered businesses. An amount of 20% of the value of the goods or services is added to all sales invoices and is payable to the U.K. tax authorities. Similarly, VAT paid on purchase invoices paid by Adaptimmune Limited and Adaptimmune Therapeutics plc is reclaimable from the U.K. tax authorities.

#### Critical Accounting Policies and Significant Judgments and Estimates

The preparation of our unaudited condensed consolidated financial statements requires us to make estimates and assumptions that affect the reported amounts of assets and liabilities, disclosure of contingent assets and liabilities, and the revenues and expenses incurred during the reported periods. We base our estimates on historical experience and on various other factors that we believe are relevant under the circumstances, the results of which form the basis for making judgments about the carrying value of assets and liabilities that are not apparent from other sources. Actual results may differ from these estimates under different assumptions or conditions. The accounting policies considered to be critical to the judgments and estimates used in the preparation of our financial statements are disclosed in the Management's Discussion and Analysis of Financial Condition and Results of Operations included in our Annual Report. There has been no change in the accounting policies considered to be critical accounting judgments and estimates.

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#### **Results of Operations**

# Comparison of Three Months Ended June 30, 2017 and 2016

The following table summarizes the results of our operations for the three months ended June 30, 2017 and 2016, together with the changes to those items (in thousands).

|                                     | Three months ended June 30, |          |    |          |    |                   |         |
|-------------------------------------|-----------------------------|----------|----|----------|----|-------------------|---------|
|                                     |                             | 2017     |    | 2016     |    | Increase/decrease |         |
| Revenue                             | \$                          | 3,521    | \$ | 328      | \$ | 3,193             | 973.5 % |
| Research and development expenses   |                             | (19,591) |    | (16,856) |    | (2,735)           | 16.2 %  |
| General and administrative expenses |                             | (7,710)  |    | (6,172)  |    | (1,538)           | 24.9 %  |
| Total operating expenses            |                             | (27,301) |    | (23,028) |    | (4,273)           | 18.6 %  |
| Operating loss                      |                             | (23,780) |    | (22,700) |    | (1,080)           | 4.8 %   |
| Interest income                     |                             | 512      |    | 291      |    | 221               | 75.9 %  |
| Interest expense                    |                             | (6)      |    | _        |    | (6)               | N/A     |
| Other income, net                   |                             | 3,224    |    | 607      |    | 2,617             | 431.1%  |
| Loss before income taxes            |                             | (20,050) |    | (21,802) |    | 1,752             | (8.0)%  |
| Income taxes                        |                             | (165)    |    | (293)    |    | 128               | (43.7)% |
| Loss for the period                 | \$                          | (20,215) | \$ | (22,095) | \$ | 1,880             | (8.5)%  |

# Revenue

Revenue increased by \$3.2 million to \$3.5 million in the three months ended June 30, 2017 compared to \$0.3 million for the three months ended June 30, 2016. Revenue will typically increase in periods when development milestones are achieved. In the three months ended June 30, 2017 and 2016, we achieved development milestones of \$1.2 million and \$nil, respectively. The increase in revenue is due to the revenue in the three months ended June 30, 2016 being adversely impacted by a change in estimate of the period over which revenue is being recognized, which reduced revenue in that quarter by \$2.8 million, and amortization of milestones achieved in December 2016.

Although it is difficult to project the timing of achieving future development deliverables, we expect the revenue for the year ended December 31, 2017 will be higher than the year ended December 31, 2016 due to the potential achievement of development milestones in the period.

# Research and Development Expenses

Research and development expenses increased by 16% to \$19.6 million for the three months ended June 30, 2017 from \$16.9 million for the three months ended June 30, 2016. Our research and development expenses comprise the following (in thousands):

|   | Three mon<br>June | ed           |                   |         |
|---|-------------------|--------------|-------------------|---------|
|   | <br>2017          | 2016         | Increase/decrease | !       |
| Salaries, materials, equipment, depreciation of property, plant and |                   |              |                   |         |
| equipment and other employee-related costs(1)                       | \$<br>11,234      | \$<br>10,788 | \$<br>446         | 4.1 %   |
| Subcontracted expenditure   | 9,590             | 6,323        | 3,267             | 51.7 %  |
| Share-based compensation expense                                    | 871               | 1,376        | (505)             | (36.7)% |
| Reimbursements for research and development tax and expenditure     |                   |              |                   |         |
| credits   | (2,104)           | (1,631)      | (473)             | 29.0 %  |
|   | \$<br>19,591      | \$<br>16,856 | \$<br>2,735       | 16.2 %  |

(1) These costs are not analyzed by project since employees may be engaged in multiple projects at a time.

The net increase in our research and development expenses of \$2.7 million for the three months ended June 30, 2017 compared to the same period in 2016 was primarily due to the following:

an increase of \$0.4 million in salaries, materials, equipment, depreciation of property, plant and equipment and other employee-related costs. The driver for these is an increase in the average number of employees engaged in research and development from 204 to 247; and

an increase of \$3.3 million in subcontracted expenditures, including clinical trial expenses, contract research organization (CRO) costs and manufacturing expenses driven by increased recruitment in our clinical trials, initiation of clinical trials for MAGE-A4, MAGE-A10 and AFP, and an increase in process development relating to manufacturing;

#### offset by:

- a decrease of \$0.5 million in share-based compensation expense for employee and nonemployee share options; and
- an increase in reimbursements for research and development tax and expenditure credits of \$0.5 million.

Our subcontracted costs for the three months ended June 30, 2017 were \$9.6 million, compared to \$6.3 million in the same period of 2016, of which \$3.7 million related to our NY-ESO SPEAR T-cells, \$3.3 million related to process development for our SPEAR T-cell platform and the remaining \$2.6 million related to other projects, including our MAGE-A10, MAGE-A4 and AFP SPEAR T-cells.

Our research and development expenses are highly dependent on the phases of our research projects and therefore fluctuate from period to period. In the year ended December 31, 2017, we plan to increase the number of clinical trials we are running, both in new therapies (including our MAGE-A4 and AFP SPEAR T-cells), existing wholly-owned therapies (MAGE-A10) and as part of the GSK Collaboration and License Agreement for our NY-ESO SPEAR T-cells. We expect to increase the number of staff employed in our research and development departments in order to invest in our future pipeline of SPEAR T-cells, develop our platform and manage clinical trials and develop our manufacturing capabilities at our U.S. facility. This will significantly increase the related salaries and share-based compensation expenses, as well as require higher expenditures on facilities, materials and equipment.

The share-based compensation expense related to nonemployee option grants will fluctuate in future periods due to changes in the assumptions to the fair value calculation, which include the share price, interest rates, volatility and expected term. A 5% increase in the share price at June 30, 2017 would have increased the share-based compensation expense for nonemployee option grants in the three months ended June 30, 2017 by approximately \$28,000.

# General and Administrative Expenses

General and administrative expenses increased by 25% to \$7.7 million for the three months ended June 30, 2017 from \$6.2 million in the same period in 2016.

The net increase of \$1.5 million was primarily due to a \$0.7 million increase in personnel costs, due to the addition of key management and other professionals to support our growth and costs associated with the relocation from two leased properties to one larger leased property in Abingdon, Oxfordshire.

We expect that our general and administrative expenses will continue to increase as the Company continues to expand.

#### Other Income, Net

Other income, net was \$3.2 million for the three months ended June 30, 2017 compared to \$0.6 million for the three months ended June 30, 2016. Other income (expense), net primarily relates to unrealized foreign exchange gains and losses on cash and cash equivalents, intercompany loans and short-term deposits held in U.S. dollars by our U.K. subsidiary. Other income, net has increased primarily due to exchange rate fluctuations and lower cash balances because the Company invested approximately \$79.8 million of cash and cash equivalents in marketable securities in the three months ended June 30, 2017. The unrealized foreign exchange gains (losses) arising on marketable securities are recognized within Other Comprehensive Income.

#### Income taxes

Income taxes decreased by 44% to \$165,000 for the three months ended June 30, 2017 from \$293,000 for the three months ended June 30, 2016. Income taxes arise in the United States and the decrease in income taxes in the three months ended June 30, 2017 is due to a decrease in the taxable profits in the United States compared to the same period of the prior year. We incur losses in the United Kingdom.

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# Comparison of Six Months Ended June 30, 2017 and 2016

The following table summarizes the results of our operations for the six months ended June 30, 2017 and 2016, together with the changes to those items (in thousands).

|                                     |    | Six month<br>June |    | ed       |                   |         |        |
|-------------------------------------|----|-------------------|----|----------|-------------------|---------|--------|
|                                     | 2  | 2017              | ,  | 2016     | Increase/decrease |         |        |
| Revenue                             | \$ | 6,378             | \$ | 3,246    | \$                | 3,132   | 96.5 % |
| Research and development expenses   |    | (38,206)          |    | (31,332) |                   | (6,874) | 21.9 % |
| General and administrative expenses |    | (14,173)          |    | (11,439) |                   | (2,734) | 23.9 % |
| Total operating expenses            |    | (52,379)          |    | (42,771) |                   | (9,608) | 22.5 % |
| Operating loss                      |    | (46,001)          |    | (39,525) |                   | (6,476) | 16.4 % |
| Interest income                     |    | 752               |    | 550      |                   | 202     | 36.7 % |
| Interest expense                    |    | (6)               |    | _        |                   | (6)     | N/A    |
| Other income, net                   |    | 3,654             |    | 1,656    |                   | 1,998   | 120.7% |
| Loss before income taxes            |    | (41,601)          |    | (37,319) |                   | (4,282) | 11.5 % |
| Income taxes                        |    | (396)             |    | (352)    |                   | (44)    | 12.5 % |
| Loss for the period                 | \$ | (41,997)          | \$ | (37,671) | \$                | (4,326) | 11.5 % |

# Revenue

Revenue increased by 96% to \$6.4 million for the six months endedJune 30, 2017 compared to \$3.2 million for the six months ended June 30, 2016. Revenue will typically increase in periods when development milestones are achieved. In the six months ended June 30, 2017 and 2016, we achieved development milestones of \$1.2 million and \$nil, respectively. The increase in revenue is due to the revenue in the six months ended June 30, 2016 being adversely impacted by a change in estimate of the period over which revenue is being recognized, which reduced revenue in the six months ended June 30, 2016 by \$2.8 million, and amortization of milestones achieved in December 2016.

Although it is difficult to project the timing of achieving future development deliverables, we expect that the revenue for the year ended December 31, 2017 will be higher than the year ended December 31, 2016 due to the potential achievement of development milestones in the period.

#### Research and Development Expenses

Research and development expenses increased by 22% to \$38.2 million for the six months ended June 30, 2017 from \$31.3 million for the six months ended June 30, 2016. Our research and development expenses comprise the following (in thousands):

|   | Six mont     | hs ended      | i       |    |                   |         |
|---|--------------|---------------|---------|----|-------------------|---------|
|   | <br>June     | e <b>30</b> , |         |    |                   |         |
|   | 2017         |               | 2016    |    | Increase/decrease | •       |
| Salaries, materials, equipment, depreciation of property, plant and | <br>         |               |         |    |                   |         |
| equipment and other employee-related costs(1)                       | \$<br>22,485 | \$            | 20,409  | \$ | 2,076             | 10.2 %  |
| Subcontracted expenditure   | 17,295       |               | 9,876   |    | 7,419             | 75.1 %  |
| Share-based compensation expense                                    | 2,230        |               | 2,269   |    | (39)              | (1.7)%  |
| Payments for in-process research and development                    | 501          |               | 3,000   |    | (2,499)           | (83.3)% |
| Reimbursements for research and development tax and expenditure     |              |               |         |    |                   |         |
| credits   | (4,305)      |               | (4,222) |    | (83)              | 2.0%    |
|   | \$<br>38,206 | \$            | 31,332  | \$ | 6,874             | 21.9 %  |

(1) These costs are not analyzed by project since employees may be engaged in multiple projects at a time.

The net increase in our research and development expenses of \$6.9 million for the six months ended June 30, 2017 compared to the same period in 2016 was primarily due to the following:

• an increase of \$2.1 million in salaries, materials, equipment, depreciation of property, plant and equipment and other employee-related costs. The driver for these is an increase in the average number of employees engaged in research and development from 195 to 244; and

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an increase of \$7.4 million in subcontracted expenditures, including clinical trial expenses, initiation of clinical trials for MAGE-A4, MAGE-A10 and AFP, contract
research organization (CRO) costs, and manufacturing expenses driven by increased recruitment in our clinical trials and an increase in process development relating
to manufacturing;

#### offset by:

· a \$2.5 million decrease in payments made to Universal Cells for in-process research and development.

Our subcontracted costs for the six months ended June 30, 2017 were \$17.3 million, compared to \$9.9 million in the same period of 2016, of which \$7.3 million related to our NY-ESO SPEAR T-cells, \$5.7 million related to process development for our SPEAR T-cell platform and the remaining \$4.3 million related to other projects, including our MAGE-A10, MAGE-A4 and AFP SPEAR T-cells.

Our research and development expenses are highly dependent on the phases of our research projects and therefore fluctuate from period to period. In the year ended December 31, 2017, we plan to increase the number of clinical trials we are running, both for our wholly-owned therapies (MAGE-A4, MAGE-A10 and AFP SPEAR T-cells) and for our NY-ESO SPEAR T-cells as part of the GSK collaboration. We expect to increase the number of staff employed in our research and development departments in order to invest in our future pipeline of SPEAR T-cells, further develop our platform and manage clinical trials and develop our manufacturing capabilities. This will significantly increase the related salaries and share-based compensation expenses, as well as require higher expenditures on facilities, materials and equipment.

The share-based compensation expense related to nonemployee option grants will fluctuate in future periods due to changes in the assumptions to the fair value calculation, which include the share price, interest rates, volatility and expected term. A 5% increase in the share price at June 30, 2017 would have increased the share-based compensation expense for nonemployee option grants in the six months ended June 30, 2017 by approximately \$28,000.

# General and Administrative Expenses

General and administrative expenses increased by 24% to \$14.2 million for the six months ended June 30, 2017 from \$11.4 million in the same period in 2016.

The net increase of \$2.7 million was primarily due to a \$2.2 million increase in personnel costs, due to the addition of key management and other professionals to support our growth and costs associated with the relocation from two leased properties to one larger leased property in Abingdon, Oxfordshire, offset by a reimbursement of certain ADS programme-related costs of \$0.4 million.

We expect that our general and administrative expenses will continue to increase as the Company continues to expand.

# Other Income, Net

Other income, net was \$3.7 million for the six months ended June 30, 2017 compared to \$1.7 million for the six months ended June 30, 2016. Other income (expense), net primarily relates to unrealized foreign exchange gains and losses on cash and cash equivalents, intercompany loans and short-term deposits held in U.S. dollars by our U.K. subsidiary. Other income, net has increased primarily due to exchange rate fluctuations and lower cash balances because the Company invested approximately \$80.0 million of cash and cash equivalents in marketable securities in the three months ended June 30, 2017. The unrealized foreign exchange gains (losses) arising on marketable securities are recognized within Other Comprehensive Income.

#### Income taxes

Income taxes increased by 12.5% to \$396,000 for the six months ended June 30, 2017 from \$352,000 for the six months ended June 30, 2016. Income taxes arise in the United States. The increase in income taxes is due to an increase in the taxable profits in the United States as we expand our operations. We incur losses in the United Kingdom.

#### Liquidity and Capital Resources

#### Sources of Funds

Since our inception, we have incurred significant net losses and negative cash flows from operations. We financed our operations primarily through sales of equity securities, cash receipts under our GSK Collaboration and License Agreement, government grants and research and development tax and expenditure credits. From inception through to June 30, 2017, we have raised:

- \$410.5 million, net of issue costs, through the issuance of shares, including \$176.0 million raised through our initial public offering in May 2015 and \$61.4 million raised through a follow-on public offering in March 2017 and \$41.8 million raised through a registered direct offering in April 2017;
- · \$81.2 million upfront fees and milestones under our GSK Collaboration and License Agreement;
- \$2.6 million of income in the form of government grants from the United Kingdom; and
- · \$11.6 million in the form of U.K. research and development tax credits and receipts from the U.K. RDEC Scheme.

We use a non-GAAP measure, Total Liquidity, which is defined as the total of cash and cash equivalents, short-term deposits and marketable securities, to evaluate the funds available to us in the near-term. A description of Total Liquidity and reconciliation to cash and cash equivalents, the most directly comparable U.S. GAAP measure, are provided below under "Non-GAAP measures".

As of June 30, 2017, we had cash and cash equivalents of \$122.0 million and Total Liquidity of \$220.0 million. We believe that our Total Liquidity will be sufficient to fund our operations, based upon our currently anticipated research and development activities and planned capital spending, through late 2019.

#### Cash Flows

The following table summarizes the results of our cash flows for the three months ended June 30, 2017 and 2016 (in thousands).

|  | Six months ended June 30, |    |          |  |
|--|---------------------------|----|----------|--|
|  | <br>2017                  |    | 2016     |  |
| Net cash used in operating activities      | \$<br>(46,448)            | \$ | (35,172) |  |
| Net cash used in investing activities      | (95,821)                  |    | (4,947)  |  |
| Net cash provided by financing activities  | 103,198                   |    | _        |  |
| Cash, cash equivalents and restricted cash | 126,154                   |    | 155,123  |  |

#### **Operating Activities**

Net cash used in operating activities increased by \$11.2 million to \$46.4 million for the six months ended June 30, 2017 from \$35.2 million for the six months ended June 30, 2016. The increase in cash used in operations was primarily the result of an increase in research and development costs due to the ongoing advancement of our preclinical programs and clinical trials and an increase in general and administrative expenses.

Net cash used in operating activities of \$46.4 million for the six months ended June 30, 2017 comprised a net loss of \$42.0 million and a net cash outflow of \$8.4 million from changes in operating assets and liabilities, offset by noncash items of \$3.9 million. The noncash items consisted primarily of depreciation expense on plant and equipment of \$2.0 million and share-based compensation expense of \$4.8 million, offset by unrealized foreign exchange gains of \$3.2 million.

#### **Investing Activities**

Net cash used in investing activities of \$95.8 million and \$4.9 million for the six months ended June 30, 2017 and 2016, respectively, included:

- purchases of property and equipment of \$21.2 million and \$2.9 million for the six months ended June 30, 2017 and 2016, respectively, which predominately related to the expansion of our laboratory facilities in the United Kingdom and the United States, including establishing our manufacturing capabilities;
- acquisition of intangibles of \$0.3 million and \$0.9 million for the six months ended June 30, 2017 and 2016, respectively;
- investment in marketable securities of \$79.8 million, and

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- · investment in short-term cash deposits with maturities greater than three months but less than 12 months of \$18.0 million and \$42.8 million for the six months ended June 30, 2017 and 2016, respectively; offset by
- · cash inflows from maturity of short-term deposits of \$22.9 million and \$41.7 million for the six months ended June 30, 2017 and 2016, respectively; and
- proceeds from sale of property, plant and equipment of \$0.6 million.

#### Financing Activities

Net cash from financing activities was \$103.2 million and \$nil for the six months ended June 30, 2017 and 2016, respectively. Net cash from financing activities for the six months ended June 30, 2017 consisted of proceeds from a follow-on public offering of ADSs of \$61.4 million in March 2017 and proceeds of \$41.8 million from a registered direct offering in April 2017.

### Non-GAAP Measures

# Total Liquidity (a non-GAAP financial measure)

Total Liquidity (a non-GAAP financial measure) is the total of cash and cash equivalents, short-term deposits and marketable securities. Each of these components appears in the consolidated balance sheet. The U.S. GAAP financial measure most directly comparable to Total Liquidity is cash and cash equivalents as reported in the consolidated financial statements, which reconciles to Total Liquidity as follows (in thousands):

|                           | June 30,<br>2017 | ]  | December 31,<br>2016 |  |  |
|---------------------------|------------------|----|----------------------|--|--|
| Cash and cash equivalents | \$ 121,998       | \$ | 158,779              |  |  |
| Short-term deposits       | 18,000           |    | 22,694               |  |  |

| Marketable securities | 80,023        | _             |
|-----------------------|---------------|---------------|
| Total Liquidity       | \$<br>220,021 | \$<br>181,473 |

We believe that the presentation of Total Liquidity provides useful information to investors because management reviews Total Liquidity as part of its management of overall liquidity, financial flexibility, capital structure and leverage. We invested approximately \$79.8 million in marketable securities in May 2017. The definition of Total Liquidity has been amended to include marketable securities, which are highly-liquid and available to use in our current operations.

#### **Off-Balance Sheet Arrangements**

We did not have during the periods presented, and we do not currently have, any off-balance sheet arrangements, as defined in the rules and regulations of the SEC.

#### **Contractual Obligations**

The following table summarizes our contractual commitments and obligations as of June 30, 2017 (in thousands):

|                                    |       | Payments due by period |        |        |             |        |             |        |             |        |
|------------------------------------|-------|------------------------|--------|--------|-------------|--------|-------------|--------|-------------|--------|
|                                    |       | Less than              |        |        |             |        |             |        | More than 5 |        |
|                                    | Total |                        | 1 year |        | 1 - 3 years |        | 3 - 5 years |        | years       |        |
| Operating lease obligations(1)(2)  | \$    | 34,837                 | \$     | 2,460  | \$          | 8,062  | \$          | 7,565  | \$          | 16,750 |
| Purchase obligations(3)            |       | 61,164                 |        | 23,487 |             | 25,237 |             | 11,384 |             | 1,056  |
| Total contractual cash obligations | \$    | 96,001                 | \$     | 25,947 | \$          | 33,299 | \$          | 18,949 | \$          | 17,806 |

- (1) As of June 30, 2017, operating lease obligations primarily consists of minimum lease payments under non-cancellable leases for laboratory and office property in Oxfordshire, U.K. and Philadelphia, U.S.
- (2) In May 2017, the Company entered into an agreement for the lease of a building at Milton Park, Oxfordshire, U.K. The lease has a term expiring on October 23, 2041, with termination options exercisable by the Company on the fifth anniversary of the lease commencement date and at approximately five yearly intervals thereafter. The related lease commitments are included in the table above.
- (3) Purchase obligations include signed orders for capital equipment, clinical materials, clinical trial expenses and contract manufacturing, which have been committed but not yet received, committed funding under the MD Anderson strategic alliance

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and costs relating to the expansion of our laboratory and office space in Oxfordshire, U.K. and Philadelphia, U.S. The amount and timing of the payments for clinical materials, clinical trial expenses and contract manufacturing may vary depending on the rate of progress of development and clinical trial enrollment rates.

#### Purchase obligations

On September 26, 2016, we announced that we had entered into a multi-year strategic alliance with MD Anderson designed to expedite the development of T-cell therapies for multiple types of cancer. We and MD Anderson are collaborating on a number of studies including clinical and preclinical development of our SPEAR T-cell therapies targeting NY-ESO and MAGE-A10 and we will collaborate on future clinical stage first and second generation SPEAR T-cell therapies such as MAGE-A4 across a number of cancers, including bladder, lung, ovarian, head and neck, melanoma, synovial sarcoma, esophageal and gastric cancers. Under the terms of the agreement, we have committed at least \$19,644,000 to fund studies. We made an upfront payment of \$3,412,000 to MD Anderson in the six months ended June 30, 2017 and are obligated to make payments to MD Anderson as certain milestones are achieved. Payment of this funding is contingent on mutual agreement to study orders in order for any study to be included under the alliance and the performance of set milestones by MD Anderson. The timing and amount of future payments is uncertain. These milestones are included within 'Purchase obligations' above.

On June 16, 2016, we entered into a supply agreement with ThermoFisher for the supply of the Dynabeads® CD3/CD28 technology. The Dynabeads® CD3/CD28 technology is designed to isolate, activate and expand human T-cells, and is being used in the manufacturing of our affinity enhanced T-cell therapies. The supply agreement runs until December 31, 2025. Under the supply agreement, we are required to purchase our requirements for CD3/CD28 magnetic bead product exclusively from ThermoFisher for a period of five years and there are also minimum purchasing obligations (which have been included in the purchase obligations above). ThermoFisher has the right to terminate the supply agreement for material breach or insolvency.

#### Other obligations

On November 25, 2015, we entered into a Research Collaboration and License Agreement relating to gene editing and HLA-engineering technology with Universal Cells. We paid an upfront license fee of \$2.5 million to Universal Cells. A milestone payment of \$3.0 million was made in February 2016 and a further milestone payment of \$0.5 million in March 2017. We are obligated make further payments of up to \$43.5 million if certain development and product milestones are achieved. Universal Cells would also receive a profit-share payment for the first product, and royalties on sales of other products utilizing its technology. Future payments are not reflected in the table above because the timing of the payments is uncertain.

In 2012, we entered into a series of license and sub-license agreements with Life Technologies Corporation, part of ThermoFisher that provide us with a field-based exclusive license under certain intellectual property rights owned or controlled by ThermoFisher. We paid upfront license fees of \$1.0 million relating to the license and sublicense agreements and has an obligation to pay minimum annual royalties (in the tens of thousands of U.S. dollars prior to licensed product approval and thereafter at a level of 50% of running royalties in the previous year), milestone payments and a low single-digit running royalty payable on the net selling price of each licensed product. Future payments are not reflected in the table above because the timing and amount of the payments are uncertain.

#### Safe Harbor

See the section titled "Information Regarding Forward-Looking Statements" at the beginning of this Quarterly Report.

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We are exposed to market risks in the ordinary course of our business, which are principally limited to interest rate fluctuations, foreign currency exchange rate fluctuations, particularly between pound sterling and U.S. dollar, and credit risk. These risks are managed by maintaining an appropriate mix of cash deposits and securities in various currencies, placed with a variety of financial institutions for varying periods according to expected liquidity requirements.

In May 2017, we invested cash and cash equivalents of \$79.8 million in corporate debt securities, with the aim of diversifying our investments and reducing credit risks. We have not entered into investments for trading or speculative purposes.

#### Interest Rate Risk

As of June 30, 2017, we had cash and cash equivalents of \$122.0 million, short-term deposits of \$18.0 million and investments in corporate debt securities of \$80.0 million. Our surplus cash and cash equivalents are invested in interest-bearing savings, money market funds and corporate debt securities from time to time. Our short-term deposits and investment in corporate debt securities are subject to fixed interest rates. Our exposure to interest rate sensitivity is impacted by changes in the underlying U.K. and U.S. bank interest rates and the fair market value of our corporate debt securities will fall in value if market interest rates increase. We do not believe an immediate one percentage point change in interest rates would have a material effect on the fair market value of our portfolio, and therefore we do not expect our operating results or cash flows to be significantly affected by changes in market interest rates.

#### **Currency Risk**

We are exposed to foreign exchange rate risk because we currently operate in the United Kingdom and the United States. Our revenue from the GSK Collaboration and License Agreement is denominated in pounds sterling and is generated by our U.K.-based subsidiary, which has a pounds sterling functional currency. As a result, these sales are subject to translation into U.S. Dollars when we consolidate our financial statements. Our expenses are generally denominated in the currency in which our operations are located, which are the United Kingdom and the United States. However, our U.K.-based subsidiary incurs significant research and development costs in U.S. dollars and, to a lesser extent, Euros.

The results of operations and cash flows will be subject to fluctuations due to changes in foreign currency exchange rates, which could harm our business in the future. We seek to minimize this exposure by maintaining currency cash balances at levels appropriate to meet foreseeable expenses in U.S. dollars and pounds sterling. To date, we have not used forward exchange contracts or other currency hedging products to manage our exchange rate exposure, although we may do so in the future. The exchange rate as of June 30, 2017, the last business day of the reporting period, was £1.00 to \$1.30197.

#### Credit Risk

We held cash and cash equivalents of \$122.0 million, short-term deposits of \$18.0 million and marketable securities of \$80.0 million as of June 30, 2017. The cash and cash equivalents and short-term deposits are held with multiple banks and we monitor the credit rating of those banks. Our investments in corporate debt securities are subject to credit risk. The Company's investment policy limits investments to certain types of instruments, such as money market instruments and corporate debt securities, places restrictions on maturities and concentration by type and issuer and specifies the minimum credit ratings for all investments and the average credit quality of the portfolio.

Trade receivables were \$1.4 million and \$1.5 million as of June 30, 2017 and December 31, 2016. Trade receivables arise in relation to the GSK Collaboration and License Agreement. We have been transacting with GSK since 2014, during which time no impairment losses have been recognized. There are no amounts which are past due as of June 30, 2017.

#### **Commodity Price Risk**

We are exposed to commodity price risk as a result of our operations. However, given the size of our operations, the costs of managing exposure to commodity price risk exceed any potential benefits. We will revisit the appropriateness of this policy should our operations change in size or nature. We have no exposure to equity securities price risk as we hold no listed or other equity investments.

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#### Item 4. Controls and Procedures.

#### **Evaluation of Disclosure Controls and Procedures**

Our management, with the participation of our Chief Executive Officer and Chief Financial Officer, has evaluated the effectiveness of our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e)) under the Securities and Exchange Act of 1934, as amended ("Exchange Act") as of June 30, 2017. Based on such evaluation, our Chief Executive Officer and Chief Financial Officer have concluded that, as of June 30, 2017, our disclosure controls and procedures were effective to ensure that information required to be disclosed by us in the reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified in the SEC's rules and forms, and is accumulated and communicated to our management, including our Chief Executive and Chief Financial Officer, or persons performing similar functions, as appropriate to allow timely decisions regarding required disclosure.

#### **Changes in Internal Control over Financial Reporting**

No change in our internal control over financial reporting (as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act) occurred during the quarter ended June 30, 2017 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

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# PART II - OTHER INFORMATION

#### Item 1. Legal Proceedings.

As of June 30, 2017, we were not a party to any material legal proceedings.

# Item 1A. Risk Factors.

Our business has significant risks. You should carefully consider the following risk factors as well as all other information contained in this Quarterly Report, including our condensed consolidated financial statements and the related notes, before making an investment decision regarding our securities. The risks and uncertainties

described below are those significant risk factors currently known and specific to us that we believe are relevant to our business, results of operations and financial condition. Additional risks and uncertainties not currently known to us or that we now deem immaterial may also impair our business, results of operations and financial condition

#### Risks Related to Our Financial Condition and Capital Requirements

#### We are a clinical-stage biopharmaceutical company with no commercial products and prediction of future performance is very difficult.

We are a clinical-stage biopharmaceutical company focused on novel cancer immunotherapy products. We have no products or therapeutics approved for commercial sale and have not generated any revenue from product supplies or royalties. Our therapeutic candidates are based on engineered TCRs and are new and largely unproven. Our limited operating history, particularly in light of the rapidly evolving cancer immunotherapy field, may make it difficult to evaluate our current business and predict our future performance. Investment in biopharmaceutical product development is highly speculative because it entails substantial upfront capital expenditures and significant risk that any potential product candidate will fail to demonstrate adequate effect or an acceptable safety profile, gain regulatory approval and become commercially viable. Our inability to address these risks successfully would have a materially adverse effect on our business and prospects.

#### We have incurred net losses every year since our inception and expect to continue to incur net losses in the future.

We have generated losses since our inception in 2008, during which time we have devoted substantially all of our resources to research and development efforts relating to our SPEAR T-cells, including engaging in activities to manufacture and supply our SPEAR T-cells for clinical trials in compliance with current good manufacturing practice, or cGMP, conducting clinical trials of our SPEAR T-cells, providing general and administrative support for these operations and protecting our intellectual property. We do not have any products approved for sale and have not generated any revenue from product supplies or royalties. Based on our current plans, we do not expect to generate product or royalty revenues unless and until we obtain marketing approval for, and commercialize, any of our SPEAR T-cells.

For the six months ended June 30, 2017, year ended December 31, 2016, six months ended December 31, 2015 and the years ended June 30, 2015 and 2014, we incurred net losses of \$42.0 million, \$71.6 million, \$23.0 million, \$22.1 million, and \$11.6 million, respectively. As of June 30, 2017, we had accumulated losses of \$203.5 million. We expect to continue incurring significant losses as we continue with our research and development programs and to incur general and administrative costs associated with our operations. The extent of funding required to develop our product candidates is difficult to estimate given the novel nature of our SPEAR T-cells and their un-proven route to market. Our profitability is dependent upon the successful development, approval, and commercialization of our SPEAR T-cells, successfully achieving GSK milestones and achieving a level of revenues adequate to support our cost structure. We may never achieve profitability, and unless and until we do, we will continue to need to raise additional cash.

We have never generated any revenue from sales of our SPEAR T-cells and our ability to generate revenue from sales of our SPEAR T-cells and become profitable depends significantly on our success in a number of factors.

We have no SPEAR T-cells approved for commercial sale, have not generated any revenue from sales of our SPEAR T-cells, and do not anticipate generating any revenue from sales of our SPEAR T-cells until some time after we receive regulatory approval, if at all, for the commercial sale of a SPEAR T-cell. We intend to fund future operations through milestone payments under our collaboration and license agreement with GSK and through additional equity financings or other third party collaborations. Our ability to generate revenue and achieve profitability depends on our success in many factors, including:

- · completing preclinical development and advancing our SPEAR T-cells to clinic;
- · delivering on the clinical development strategy for our SPEAR T-cells;
- · progressing our clinical trials within predicted timeframes and without any substantial delays, for example as may be caused by delays in patient recruitment, regulatory requirements to hold or suspend any clinical trials or delays in obtaining approvals required to conduct clinical trials;

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- demonstrating a favorable benefit (efficacy parameters): risk (safety) for our SPEAR T-cells that translate into a differentiated product of value for patients;
- · obtaining data from clinical trials which are ongoing for SPEAR T-cells other than our NY-ESO SPEAR T-cell;
- obtaining regulatory approvals and marketing authorizations for our SPEAR T-cells for which we complete clinical trials;
- · progressing our clinical trials within predicted timeframes and without any substantial delays, for example as may be caused by delays in patient recruitment, regulatory requirements to hold or suspend any clinical trials or delays in obtaining approvals required to conduct clinical trials;
- · developing sustainable and scalable manufacturing and supply processes for our SPEAR T-cells, including establishing and maintaining commercially viable supply relationships with third parties and establishing our own commercial manufacturing capabilities and infrastructure;
- launching and commercializing SPEAR T-cells for which we obtain regulatory approvals and marketing authorizations, either directly or with a collaborator or distributor;
- · obtaining market acceptance, pricing and reimbursement of our SPEAR T-cells as viable treatment options;
- · addressing any competing technological and market developments;
- · identifying, assessing, acquiring and/or developing new SPEAR T-cells;
- maintaining, protecting, and expanding our portfolio of intellectual property rights, including patents, trade secrets and know-how; and
- attracting, hiring and retaining qualified personnel.

Even if one or more of our SPEAR T-cells is approved for commercial sale, we anticipate incurring significant costs associated with commercializing any approved SPEAR T-cell. Our expenses could increase beyond expectations if the FDA or any other regulatory agency requires changes to our manufacturing processes or assays, or for us to perform preclinical programs and clinical or other types of trials in addition to those that we currently anticipate. If we are successful in obtaining regulatory approvals to market one or more of our SPEAR T-cells, our revenue will be dependent, in part, upon the size of the markets in the territories for which we gain regulatory approval, the accepted price for the SPEAR T-cell, the ability to get reimbursement at any price, and whether we own the commercial rights for that territory. If the number of our addressable disease patients is not as significant as we estimate, the indication approved by regulatory authorities is narrower than we expect, or the reasonably accepted population for treatment is narrowed by competition, physician choice or treatment guidelines, we may not generate significant revenue from sales or supplies of such SPEAR T-cells, even if approved. If we are not able to generate revenue from the sale of any approved SPEAR T-cells, we may never become profitable.

#### If we fail to obtain additional financing, we may be unable to complete the development and commercialization of our SPEAR T-cells.

Our operations have required substantial amounts of cash since inception. We expect to continue to spend substantial amounts to continue the development of our SPEAR T-cells, including future clinical trials. If we receive approval for any of our SPEAR T-cells, we will require significant additional amounts in order to launch and commercialize these therapeutic candidates.

As of June 30, 2017, we had \$122.0 million of cash and cash equivalents, \$18.0 million of short-term deposits and \$80.0 million of marketable securities. We expect to use these funds to advance and accelerate the clinical development of our MAGE-A10, MAGE-A4 and AFP SPEAR T-cells, to further develop and enhance our manufacturing capabilities and secure a commercially viable manufacturing platform for all of our SPEAR T-cells, to advance additional SPEAR T-cells into preclinical testing and progress such SPEAR T-cells through to clinical trials as quickly as possible and to fund working capital, including other general corporate purposes. We believe that such proceeds, our existing cash, and cash equivalents, short-term deposits and marketable securities together with milestones payments to us under the GSK Collaboration and License Agreement will be sufficient to fund our operations for the foreseeable future, including for at least the next 12 months. However, changing circumstances beyond our control, including changes to the scope and timing of the programs under the GSK collaboration, may cause us to increase our spending significantly faster than we currently anticipate. We may require additional capital for the further development and commercialization of our SPEAR T-cells and may need to raise additional funds sooner if we choose to expand more rapidly than we presently anticipate.

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We cannot be certain that additional funding will be available on acceptable terms, or at all. We have no committed source of additional capital and if we are unable to raise additional capital in sufficient amounts or on terms acceptable to us, we may have to significantly delay, scale back or discontinue the development or commercialization of our SPEAR T-cells or other research and development initiatives. Our license and supply agreements may also be terminated if we are unable to meet the payment obligations under these agreements. We could be required to seek collaborators for our SPEAR T-cells at an earlier stage than otherwise would be desirable or on terms that are less favorable than might otherwise be available or relinquish or license on unfavorable terms our rights to our SPEAR T-cells in markets where we otherwise would seek to pursue development or commercialization ourselves. Any of the above events could significantly harm our business, prospects, financial condition and results of operations and cause the price of our American Depositary Shares, or ADSs, to decline.

#### Risks Related to the Development of Our SPEAR T-cells

Our business is highly dependent on our lead NY-ESO SPEAR T-cell, which will require significant additional clinical testing before we can seek regulatory approval and begin commercialization of any of our SPEAR T-cells.

There is no guarantee that any of our SPEAR T-cells will achieve regulatory approval or proceed to the next stage of clinical programs. The process for obtaining marketing approval for any candidate is very long and risky and there will be significant challenges for us to address in order to obtain marketing approval, if at all.

There is no guarantee that the results obtained in current clinical trials for our NY-ESO SPEAR T-cell will be sufficient to plan one or more pivotal clinical trials and obtain regulatory approval or marketing authorization. Negative results in this lead clinical program of our NY-ESO SPEAR T-cell or in other investigator-initiated clinical programs utilizing our NY-ESO therapeutic candidate may also impact our ability to obtain regulatory approval for other SPEAR T-cells, either at all or within anticipated timeframes because, although the SPEAR T-cell may target a different cancer peptide, the underlying technology platform, manufacturing process and development process is the same for all of our SPEAR T-cells. Accordingly, a failure in any one program may affect the ability to obtain regulatory approval to continue or conduct clinical programs for other SPEAR T-cells.

We may not be able to submit INDs, or the foreign equivalent outside of the United States, to commence additional clinical trials for other SPEAR T-cells on the timeframes we expect, and even if we are able to, the FDA or comparable foreign regulatory authorities may not permit us to proceed with planned clinical trials.

Progression of new SPEAR T-cells into clinical trials is inherently risky and dependent on the results obtained in preclinical programs, the results of other clinical programs and results of third-party programs that utilize common components, such as production of the lentiviral vector lot used for production and administration of our SPEAR T-cell. If results are not available when expected or problems are identified during SPEAR T-cell development, we may experience significant delays in development of pipeline products and in existing clinical programs, which may impact our ability to receive regulatory approval. This may also impact our ability to achieve certain financial milestones and the expected timeframes to market any of our SPEAR T-cells. Failure to submit further IND or the foreign equivalent and commence additional clinical programs will significantly limit our opportunity to generate revenue.

There is no guarantee that the FDA, or any other regulatory authority, will approve any IND (or equivalent application) for any of our SPEAR T-cells, or for new indications for our SPEAR T-cells already in clinical trials, or that amendments to existing protocols will not be required. For example, the FDA issued a partial clinical hold for the Company's proposed MRCLS trial with NY-ESO following review of the IND submitted for the trial. The FDA notification was not based on safety concerns. In its correspondence the FDA requested additional Chemistry Manufacturing and Controls, or CMC, and clinical information prior to the commencement of the proposed trial. An amendment to the ADP-0011-007 protocol for the trial was filed with the FDA which converted the trial into a pilot trial (rather than the previously proposed pivotal trial design with a futility phase) and this amended protocol has now been approved by the FDA resulting in a lift of the partial clinical hold. The start of the MRCLS trial was delayed as a result of the FDA issued partial clinical hold and there is no guarantee that any later MRCLS pivotal trial or further SPEAR T-cell trial will be approved by the FDA

We are in the process of expanding our clinical trial foot print to Europe. This requires gaining approval of country specific review bodies for GMO application and CTA. As this is not a harmonized process, the requirements can vary considerably and delays can be incurred at a country level.

In the USA, some institutional review boards, or IRBs, have requested that the Sponsor obtain Investigational Device Exemptions (IDE) from the FDA for the validated clinical trial assay being used to select patients. This has delayed the initiation of some sites and limited the ability to obtain high risk biopsies until an IDE has been granted. Adaptimmune plans to proactively seek IDE for our SPEAR T-cells where appropriate.

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Our SPEAR T-cells being developed may have potentially fatal cross-reactivity to other peptides or protein sequences within the body.

One of our prior SPEAR T-cells, designed to target an HLA-1 restricted MAGE-A3 cancer-specific peptide, recognized another unrelated peptide from a protein called TITIN, expressed within normal cardiac and other muscle tissues in patients. As a result of this cross-reactivity to the TITIN protein in the heart, two patients died during our MAGE-A3 clinical program, the program was put on pause, then formally placed on hold by the FDA, after which we terminated the program. We subsequently developed a preclinical safety testing program that identifies potential cross-reactivity risks but there may be gaps or other problems detected in the testing program at a later date. Even with the use of this testing program, there can be no guarantee that the FDA will permit us to begin clinical trials of any additional SPEAR T-cells other than those for which INDs already exist or that other off-target cross-reactivity will not be identified or present in any patient group. Failure to develop an effective preclinical safety

testing program will prevent or delay clinical trials of any SPEAR T-cell. Detection of any cross-reactivity will halt or delay any ongoing clinical trials for any SPEAR T-cell and prevent or delay regulatory approval. Given that the underlying technology platform, manufacturing process and development process is similar for all of our TCR therapies, issues pertaining to cross-reactivity for one SPEAR T-cell may impact our ability to obtain regulatory approval for other SPEAR T-cells undergoing development and clinical trials, which would significantly harm our business, prospects, financial condition and results of operations.

Cross-reactivity or allo-reactivity (binding to peptides presented on other HLA types) could also occur where the affinity-enhanced engineered TCR contained within our SPEAR T-cell binds to peptides presented by HLAs other than the HLA type for which the relevant TCR was developed. We have developed a preclinical screening process to identify allo-reactivity risk. Where any allo-reactivity risk is identified, patients with the allo-reactive alleles will be excluded from the trial. Any allo-reactivity or other cross-reactivity that impacts patients aftery could materially impact our ability to advance our SPEAR T-cells into clinical trials or to proceed to market approval and commercialization. In addition, there is no guarantee that exclusion of patients with the identified allo-reactive allele will successfully eliminate the risk of allo-reactivity, and serious side effects for patients may still exist. Given that the underlying technology platform, manufacturing process and development process are similar for all of our SPEAR T-cells, issues pertaining to allo-reactivity for one SPEAR T-cell may impact our ability to obtain regulatory approval for other SPEAR T-cells undergoing development and clinical trials, which would significantly harm our business, prospects, financial condition and results of operations.

Our T-cell therapy, which is a type of cell therapy that uses gene therapy technology, represents a novel approach to cancer treatment that could result in heightened regulatory scrutiny, delays in clinical development, or delays in or our inability to achieve regulatory approval or commercialization of our SPEAR T-cells.

Use of our SPEAR T-cells to treat a patient requires the use of gene therapy technology, which involves combining a patient's T cells with our lentiviral delivery vector containing the gene for our affinity-enhanced engineered TCR. This is a novel treatment approach that carries inherent development risks. We are therefore constantly evaluating and adapting our SPEAR T-cells following the results obtained during development work and the clinical programs. Further development, characterization and evaluation may be required, depending on the results obtained, in particular where such results suggest any potential safety risk for patients. The need to develop further assays, or to modify in any way the protocols related to our SPEAR T-cells to improve safety or effectiveness, may delay the clinical program, regulatory approval or commercialization, if approved at all, of any SPEAR T-cell. Consequently, this may have a material impact on our ability to receive milestone payments and/or generate revenue from our SPEAR T-cells.

In addition, given the novelty of our SPEAR T-cells, the end users and medical personnel require a substantial amount of education and training in their administration of our SPEAR T-cells. Regulatory authorities have very limited experience with commercial engineered cell therapies and SPEAR T-cells for the treatment of cancer. As a result, regulators may be more risk adverse or require substantial dialogue and education as part of the normal regulatory approval process for each stage of development of any SPEAR T-cell. To date, only a limited number of gene therapy products have been approved in the United States and European Union. Consequently, it is difficult to predict and evaluate what additional regulatory hurdles may apply to the development of our SPEAR T-cells and whether additional investment, time or resources will be required to overcome any such hurdles.

Additionally, because our technology involves the genetic modification of patient cells *ex-vivo* using a viral vector, we are subject to many of the challenges and risks of gene therapy, including the following challenges:

· Regulatory requirements governing gene and cell therapy products have changed frequently and may continue to change in the future.

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- Random gene insertion associated with retrovirus-mediated genetically modified products, known as insertional oncogenesis, could lead to lymphoma, leukemia or other cancers, or other aberrantly functioning cells. Insertional oncogenesis was seen in early gene therapy studies conducted outside of the United States in 2003. In those studies, insertional oncogenesis resulted in patients developing leukemia following treatment with the relevant gene therapy, with one patient dying. As a result of the data from those studies, the FDA temporarily halted gene therapy trials in the United States. The previous trials involved modification of stem cells rather than T cells and utilized a murine gamma-retroviral vector rather than a lentiviral vector. We cannot guarantee that insertional oncogenesis resulting from administration of our SPEAR T-cells will not occur.
- · Although our viral vectors are not able to replicate, there may be a risk with the use of retroviral or lentiviral vectors that they could undergo recombination and lead to new or reactivated pathogenic strains of virus or other infectious diseases.
- There is the potential for delayed adverse events following exposure to gene therapy products due to persistent biological activity of the genetic material or other components of products used to carry the genetic material. In part for this reason, the FDA recommends a 15-year follow-up observation period for all surviving patients who receive treatment using gene therapies in clinical trials. We may need to adopt such an observation period for our therapeutic candidates; however, the FDA does not require that the tracking be complete prior to its review of the Biologics License Application, or BLA.
- Clinical trials using genetically modified cells conducted at institutions that receive funding for recombinant DNA research from the NIH may be subject to review by the NIH Office of Biotechnology Activities' Recombinant DNA Advisory Committee, or RAC. The RAC review process can delay or impede the initiation of a clinical trial. New guidelines were introduced by the NIH in April 2016 relating to the RAC review process for protocols using genetically modified cells and there is uncertainty as to how the new guidelines will operate. This could lead to increased delays in the approval of our protocols or additional education of institution review committees or boards being required during the protocol review process.

If adverse events of the type described above were to occur, further advancement of our clinical trials could be halted or delayed, which would have a material adverse effect on our business and operations. In addition, heightened regulatory scrutiny of gene therapy product candidates may result in delays and increased costs in bringing a product candidate to market, if at all. Delay or failure to obtain, or unexpected costs in obtaining, the regulatory approval necessary to bring a potential product to market could decrease our ability to generate revenue in the future.

In addition, results seen in third party clinical trials using other cell therapy products, for example CAR-T products, may impact on the further advancement of our clinical trials. For example, the deaths reported in a trial using a CAR-T directed against CD19 (JCAR-015) in adult patients with Adult Lymphoblastic Leukemia (ALL) (Juno Therapeutics, NCT02535364) may impact on our ability to further advance our clinical trials or result in the FDA requiring amendments or changes to the protocols used for our clinical trials. Based on the data currently available to us in relation to our clinical trials there is no evidence that the type and severity of neurotoxological events observed with CD19-directed CAR-T cell treatments, including the fatal events observed in the NCT02535364 trial, occur with Adaptimmune's NY-ESO-1 TCRs and we do not therefore believe that any changes to our SPEAR T-cell clinical trial protocols are required. However there is no guarantee that the FDA or other regulatory authorities will agree with that position and further education and discussion with regulatory authorities may be required.

T-cell therapy is a novel approach to cancer treatment that creates significant increased risk in terms of side-effect profile, ability to satisfy regulatory requirements associated with clinical trials and the long-term viability of administered SPEAR T-cells.

Development of a pharmaceutical or biologic therapy or product has inherent risks based on differences in patient population and responses to therapy and treatment. The mechanism of action and impact on other systems and tissues within the human body following administration of our SPEAR T-cell is not completely understood, which means that we cannot predict the long-term effects of treatment with our SPEAR T-cells.

We are aware that certain patients do not respond to our SPEAR T-cells and that other patients may relapse or cease to present the peptide being targeted by such

Our clinical trials and the investigator-initiated clinical trials using our NY-ESO TCR therapeutic are still in the early stages, and it is difficult to predict the results that will be obtained in ongoing clinical trials or the next phase or phases of any clinical program. Our SPEAR T-cells have not previously been tested in combination clinical trials, for example use in combination with Merck's PD-1 inhibitor, KEYTRUDA® (pembrolizumab) in patients with multiple myeloma. It is difficult to predict the way in which our SPEAR T-cells will interact with third-party products used in combination clinical trials. Any undesirable side effects seen in combination trials may affect our ability to continue with and obtain regulatory approval for our SPEAR T-cell therapies alone.

There is a significant risk at each stage of any clinical program that serious adverse events or low efficacy, as well as less favorable benefit:risk profiles, will prevent our SPEAR T-cells from proceeding further or will result in those programs being suspended or placed on hold (whether voluntarily or as a result of a regulatory authority requirement). For example, there is a risk that the target (or similar) peptide to which any SPEAR T-cell is directed may be present in both patients' cancer cells and other non-cancer cells and tissues. Should this be the case patients may suffer a range of side effects associated with the SPEAR T-cell binding to both the cancer cells and/or other cells and tissues and such side effects could cause patient death. The extent of these side effects will depend on which cells and tissues are affected as well as the degree to which the target (or similar) peptide is expressed in these cells and tissues.

As of January 5, 2017, 61 subjects have received NY-ESO SPEAR T-cells in Adaptimmune-sponsored studies. The most common (>15%) adverse events in these subjects considered by investigators to be at least possibly related to our NY-ESO SPEAR T-cells include: fever, diarrhea, fatigue, rash, nausea, anemia, dyspnea, CRS, lymphopenia, leukopenia, cough, ALT increased, AST increased, hypotension, sinus tachycardia, neutropenia, and thrombocytopenia. Adverse events with severity grade 3 or higher considered by investigators to be at least possibly related and occurring in more than one patient include lymphopenia, leukopenia, anemia, neutropenia, febrile neutropenia, diarrhea, CRS, graft versus host disease (GVHD), hyponatremia, and musculoskeletal chest pain. There has been one report of fatal (grade 5) bone marrow failure which was considered related to study treatment by the investigator in the trial. Internal investigations have not identified a mechanism by which NY-ESO SPEAR T-cells may have caused bone marrow failure. Serious adverse events (SAEs) have also been reported on our Company sponsored clinical programs. SAEs considered by investigators to be at least possibly related and occurring in more than one patient include: fever, cytokine release syndrome, dehydration, graft versus host disease, neutropenia, and rash. To date, GVHD, impacting the skin and gastrointestinal tract, has only been reported in our myeloma study involving autologous stem cell transplants (ASCT). Although GVHD is a known complication of ASCT, symptoms such as rash, colitis and diarrhea have been reported in other NY-ESO SPEAR T-cell studies. There have also been reports of serious unexpected adverse reactions considered at least possibly related by investigators in our trials: grade 2 rhabdomyolysis possibly due to breakdown of a myeloma plasmacytoma that was thought to be infiltrating the muscle tissue based on a CT scan; grade 3 dehydration requiring overnight hospital admission; grade 4 supraventricular tachycardia (SVT) in one pa

In our ovarian cancer trial with our NY-ESO SPEAR T-cell, the first patient treated experienced a grade 3 cytokine release syndrome at day seven post-infusion, concomitant with a significant proliferation of the engineered T-cells that constituted the majority of the peripheral white blood cells at day 14. This level of cytokine release syndrome had not been seen in previous results from trials using our NY-ESO SPEAR T-cell. The patient's tumor markers were also falling during this time. To manage the cytokine release syndrome, the patient was treated with high dose steroids that may have abrogated the engineered T-cell function. All Adaptimmune protocols now allow for use of the anti-IL6R antibody, tocilizumab, for treatment of cytokine release syndrome in future patients. Tocilizumab has been shown to control cytokine release syndrome likely without abrogating the anti-tumor response.

In addition to our Company sponsored clinical programs, our NY-ESO TCR therapeutic has also been used in an investigator-initiated clinical program funded by the European Union, referred to as the ATTACK 2 program. The therapy, which was produced under a different manufacturing process than Adaptimmune's NY-ESO TCR therapy, was being evaluated for the treatment of patients with advanced gastro-esophageal cancer for the first time. To date, two patients have been treated under this protocol, one of whom passed away 46 days after initial treatment. Said patient experienced enterocolitis and bone marrow failure followed by fatal gangrenous gastrointestinal necrosis and hemorrhage. The investigator determined there was a reasonable possibility that these events were caused by study treatment.

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Enrollment in the trial was temporarily paused pending investigation of the patient fatality, but an independent data monitoring committee has since recommended that recruitment can resume following a protocol amendment. The European Union has since terminated funding of the trial due to the delays in trial progression and the Company is in discussions with the sponsor, the Christie NHS Trust, in relation to any continuation of the trial. The enrollment of patients in our own sponsored clinical trials using our NY-ESO SPEAR T-cells have not been affected so far, although regulatory authorities in the United Kingdom and United States were informed of the event. If and when recruitment re-starts in the ATTACK 2 program, if any safety risk to patients is identified which is potentially associated with our NY-ESO SPEAR T-cell, our Company sponsored clinical trials could be affected, including the possibility of being placed on hold.

Because administration of our SPEAR T-cells is patient-specific, the process requires careful handling of patient-specific products and fail-safe tracking, namely the need to ensure that the tracking process is without error and that patient samples are tracked from patient removal, through manufacturing and re-administration to the same patient. We will need to invest in systems, such as bar coding, to ensure fail safe tracking. There is always a risk of a failure in any such system. Inability to develop or adopt an acceptable fail-safe tracking methodology and handling regime may delay or prevent us from receiving regulatory approval. This risk may be increased where our SPEAR T-cells are used in clinical programs that we do not control or sponsor and, should an error be made in the administration of our SPEAR T-cells in such clinical programs, this could affect the steps required in our own clinical programs and manufacturing process requiring the addition of further tracking mechanisms to ensure fail-safe tracking. The tracking systems required to ensure safe patient administration may also require increased administration to satisfy other regulatory requirements, for example data protection requirements in Europe. The need to ensure tracking systems are adequate and to comply with these additional regulatory requirements may result in delay to the start of trials or the need to obtain additional regulatory licenses or consents prior to starting such trials.

Validation of our SPEAR T-cells requires access to human samples but there is no guarantee that such samples can be obtained or, if they can be obtained, that the terms under which they are provided will be favorable to us.

Certain of the steps involved in validating and carrying out safety testing in relation to our SPEAR T-cells require access to samples (e.g., tissues samples or cell samples) from third parties. Such samples may be obtained from universities or research institutions and will often be provided, subject to satisfaction of certain terms and conditions. There can be no guarantee that we will be able to obtain samples in sufficient quantities to enable development of and use of the full preclinical safety testing program for all SPEAR T-cells undergoing development. In addition, the terms under which such samples are available may not be acceptable to us or may restrict our use of any generated results or require us to make payments to the third parties.

Our SPEAR T-cells and their potential associated risks are still under investigation. For example, there is a potential risk that, given that the TCR chains are produced separately and then assembled within patient T cells into full TCRs, the TCR chains from both transduced and naturally occurring T cells could be assembled into an unintended end TCR due to mis-pairing of TCR chains, which could create unknown recognition and cross-reactivity problems within patients. Although this phenomenon has not been reported in humans, it remains a theoretical risk for our SPEAR T-cells and is still being studied and investigated. This could delay regulatory approval, if any, for the relevant SPEAR T-cells. To the extent that any mis-pairing of TCR chains is identified, either in our or our competitors' clinical trials, additional investment may be required in order to modify relevant SPEAR T-cells and to further assess and validate the risk of such mis-pairing to patients. There is also no guarantee that following modification of the relevant SPEAR T-cell, such modified SPEAR T-cell will remain suitable for patient treatment, that it will eliminate the risk of mis-pairing of TCR chains or that regulatory approval will be obtained at all or on a timely basis in relation to such modified SPEAR T-cells. The occurrence of such events could significantly harm our business, prospects, financial condition and results of operations.

We may not be able to identify and validate additional target peptides or isolate and develop affinity-enhanced TCRs that are suitable for validation and further development.

The success of our SPEAR T-cells depends on both the identification of target peptides presented on cancer cells, which can be bound by TCRs, and isolation and affinity enhancement of TCRs, which can be used to treat patients if regulatory approval is obtained. There is an inherent risk that the number of target peptides that can be identified and/or our ability to develop and isolate suitable TCRs for affinity enhancement could be significantly lower than projected or that no additional SPEAR T-cells suitable for further development can be identified. Any failure to identify and validate further target peptides will reduce the number of potential SPEAR T-cells that we can successfully develop, which in turn will reduce the commercial opportunities available to us and increase our reliance on our existing SPEAR T-cells.

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In addition, there is no guarantee that our attempts to develop further SPEAR T-cells will result in candidates for which the safety and efficacy profiles enable progression to and through preclinical testing. Failure to identify further candidates for progression into preclinical testing and clinical programs will significantly impact our commercial returns, increase our reliance on the success of our existing SPEAR T-cell programs and may significantly harm our business, prospects, financial condition and results of operations. If resources become limited or if we fail to identify suitable target peptides, TCRs or affinity-enhanced TCRs, our ability to submit INDs for further SPEAR T-cells may be delayed or never realized, which would have a materially adverse effect on our business.

#### We may encounter substantial delays in our clinical trials or may not be able to conduct our trials on the timelines we expect.

Conduct of clinical trials is dependent on finding clinical sites prepared to carry out the relevant clinical trials, screening of patients by the clinical sites, recruitment of patients both in terms of number and type of patients and general performance of the relevant clinical site. It is difficult to predict how quickly we will be able to recruit suitable patients, find suitable sites, begin clinical programs and administer our SPEAR T-cells. The patient population in which any required peptide antigen is presented may be lower than expected which will increase the timescales required to find and recruit patients into the applicable clinical trial. Screening of a large number of patients is required to identify HLA and tumor antigen positive patients for most of our clinical trials. For example it has taken longer to recruit patients into our NSCLC trials with both our NY-ESO SPEAR T-cell and MAGE-A10 SPEAR T-cell due to the low percentage expression of peptide antigen seen in the patient populations at the relevant clinical trial sites. With our NY-ESO SPEAR T-cell, presentation of the antigen occurs predominantly in certain sub-types of NSCLC and additional clinical sites may need to be initiated in order to identify patients with those certain NSCLC sub-types. With MAGE-A10 presentation of the peptide antigen is seen in a lower number of patients than anticipated. This will delay recruitment of patients into NSCLC trials for both therapies and result in the Company incurring additional costs associated with the need to find and initiate additional clinical trial sites. It is also difficult to predict whether changes may be required to any clinical trial design as our clinical trials progress. For example, initial results from current Phase 1/2 clinical trials with our NY-ESO SPEAR T-cell have suggested that fludarabine is required as part of any patient pre-conditioning regimen. This has required amendment to protocol designs, which did not previously include fludarabine, to include fludarabine.

Our clinical trials will compete with other clinical trials that are in the same therapeutic areas as our SPEAR T-cells, which will reduce the number and types of patients available to us, because some patients who might have opted to enroll in our trials may instead opt to enroll in a trial being conducted by one of our competitors. Because the number of qualified clinical investigators is limited, we will conduct some of our clinical trials at the same clinical trial sites that some of our competitors use, which will reduce the number of patients who are available for our clinical trials at such clinical trial sites. Moreover, because our SPEAR T-cells represent a departure from more commonly used methods for cancer treatment, potential patients and their physicians may opt to use conventional therapies, such as chemotherapy and hematopoietic cell transplantation, rather than enrollment in any of our current or future clinical trials. In addition, in relation to any indication, the standard of care for patients in that indication may change or further develop meaning that clinical sites are no longer prepared to continue with any clinical trial or require amendments to agreed protocols for clinical trials. For example, the standard of care in melanoma has changed since the start of our clinical trials in melanoma with our NY-ESO SPEAR T-cell and as a result the clinical trial has been halted due to anticipated unavailability of patients. Such circumstances can lead to the suspension of the relevant clinical trial at a site, inability to recruit further patients at that clinical site or a requirement to amend the protocol, all of which will delay or potentially halt progression of a SPEAR T-cell through clinical trials.

Even if we are able to enroll a sufficient number of patients in our clinical trials, delays in patient enrollment may result in increased costs or may affect the timing or outcome of the planned clinical trials, which could prevent completion of these trials and adversely affect our ability to advance the development of our SPEAR T-cells.

Our synovial sarcoma pivotal trial start date relies on approval of comparability studies related to the manufacturing of our SPEAR T-cells. If the results from the comparability studies are not acceptable, this may delay the start of the synovial sarcoma pivotal trial and require re-evaluation of the process used to manufacture of our SPEAR T-cells.

# We may not be able to develop or obtain approval for the analytical assays and companion diagnostics required for commercialization of our SPEAR T-cells.

Administration of our SPEAR T-cells requires the use of an immuno-chemistry or other screening assay in which patients are screened for the presence of the cancer peptide targeted by our SPEAR T-cells. This assay requires the identification of suitable antibodies which can be used to identify the presence of the relevant target cancer peptide.

If safe and effective use of a biologic product depends on an *in vitro* diagnostic, such as a test to detect patients with HLA type A2, then the FDA generally requires approval or clearance of the diagnostic, known as a companion diagnostic, concurrently with approval of the therapeutic product. To date, the FDA has generally required *in vitro* companion diagnostics that are intended for use in selection of patients who will respond to cancer treatment to obtain a pre-market approval, or PMA, which can take up to several years, for that diagnostic simultaneously with approval of the biologic product.

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We expect that, for our NY-ESO SPEAR T-cell, the FDA and similar regulatory authorities outside of the United States will require the development and regulatory approval of a companion diagnostic assay as a condition to approval. We also expect that the FDA may require PMA supplemental approvals for use of that same companion diagnostic as a condition of approval of additional SPEAR T-cells. We do not have experience or capabilities in developing or commercializing these companion diagnostics and plan to rely in large part on third parties to perform these functions.

If we, or any third parties that we engage to assist us, are unable to successfully develop companion diagnostic assays for use with our SPEAR T-cells, or are unable to obtain regulatory approval or experience delays in either development or obtaining regulatory approval, we may be unable to identify patients with the specific profile targeted by our SPEAR T-cells for enrollment in our clinical trials. Accordingly, further investment may be required to further develop or obtain the required regulatory approval for the relevant companion diagnostic assay, which would delay or substantially impact our ability to conduct further clinical trials or obtain regulatory approval.

Manufacturing and administering our SPEAR T-cells is complex and we may encounter difficulties in production, particularly with respect to process development or scaling up of our manufacturing capabilities. If we encounter such difficulties, our ability to provide supply of our SPEAR T-cells for clinical trials or for commercial purposes could be delayed or stopped.

The process of manufacturing and administering our SPEAR T-cells is complex and highly regulated. The manufacture of our SPEAR T-cells involves complex processes, including manufacture of a lentiviral delivery vector containing the gene for our affinity-enhanced engineered TCR. Administration of our SPEAR T-cells includes harvesting white blood cells from the patient, isolating certain T cells from the white blood cells, combining patient T cells with our lentiviral delivery vector through a process known as transduction, expanding the transduced T cells to obtain the desired dose, and ultimately infusing the modified T cells back into the patient. As a result of the complexities, our manufacturing and supply costs are likely to be higher than those at more traditional manufacturing processes and the manufacturing process is less reliable and more difficult to reproduce. Our manufacturing process is and will be susceptible to product loss or failure due to logistical issues, including manufacturing issues associated with the differences in patients' white blood cells, interruptions in the manufacturing process, contamination, equipment or reagent failure, supplier error and variability in SPEAR T-cell and patient characteristics.

For example, to manufacture our lentiviral delivery vector manufacturing slots have to be agreed in advance with third party contract manufacturers. It has not always been possible to obtain manufacturing slots within the timescales we require for supply of lentiviral delivery vector or to obtain agreed dates for such manufacturing slots sufficiently in advance of the requirement for supply. In addition third party contract manufacturers have cancelled or delayed the start of manufacturing slots, even where such manufacturing slots have been pre-agreed. This has necessitated the use of additional third party contract manufacturers. We cannot guarantee that manufacturing slots will be available within the timescales we require for ongoing supply of SPEAR T-cells. In relation to ongoing NY-ESO SPEAR T-cell trials, this may result in delays in supply of the lentiviral delivery vector and has required us to source alternative third party contract manufacturers for supply of the lentiviral delivery vector. In relation to new clinical trials, cancellation and delay in the start of manufacturing slots may result and has resulted, in the case of our AFP SPEAR T-cell, in delay in the start of or enrollment of patients into our clinical trials.

If for any reason we (or any other manufacturer of our therapy) lose a patient's white blood cells or such material gets contaminated or later processing steps fail at any point, the manufacturing process of the SPEAR T-cell for that patient will need to be completely restarted and the resulting delay may adversely affect that patient's outcome. If microbial, viral or other contaminations are discovered in our SPEAR T-cells or in the manufacturing facilities in which our SPEAR T-cells are made or administered, such manufacturing facilities may need to be closed for an extended period of time to investigate and remedy the contamination.

The requirements for manufacture and supply of SPEAR T-cells for clinical trials in Europe have additional complexities and the manufacture and supply of our SPEAR T-cells is raising issues which have not previously been regulated or observed by the relevant regulatory authorities. For example, supply of SPEAR T-cells for European clinical trials will either require manufacture of SPEAR T-cells in the United States or use of a new CMO in Europe. Where manufacture continues in the United States, there is a need to transfer patient product from clinical sites in Europe to the manufacturer in the United States, for the patient product to be converted into our end SPEAR T-cell product and then for that SPEAR T-cell product to be transported back to the site in Europe for administration to the patient. The supply and manufacturing chain required to achieve this is very complex and could be subject to failures at any point in the supply and manufacturing chain. We are in the process of transferring the manufacturing process to a third-party manufacturer in Europe, but the third-party manufacturer is as yet untested and has not previously supplied any of our SPEAR T-cell product. Any inability to set up acceptable manufacturing and supply chains to enable treatment of patients in Europe could result in delay to those trials starting in Europe.

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As our SPEAR T-cells progress through preclinical programs and clinical trials towards approval and commercialization, it is expected that various aspects of the manufacturing and administration process will be altered in an effort to optimize processes and results. We have already identified some improvements to our manufacturing and administration processes, but these changes may not achieve the intended objectives, may not be transferable to third parties or able to be used at larger scales and could cause our SPEAR T-cells to perform differently or affect the results of planned clinical trials or other future clinical trials. In addition, such changes may require amendments to be made to regulatory applications or comparability tests to be conducted which may further delay the timeframes under which modified manufacturing processes can be used for any SPEAR T-cell. For example, we are planning to make changes to the manufacturing process for cell products and vector material used in our NY-ESO SPEAR T-cell for which we will need to conduct clinical trials to gather safety data for each of the different indications for which larger clinical trials are planned. If our NY-ESO SPEAR T-cell manufactured under the new process has a worse safety or efficacy profile than the prior investigational product, we may need to re-evaluate the use of that manufacturing process, which could significantly delay or even result in the halting of our clinical trials.

Developing a commercially viable process is a difficult and uncertain task, and there are risks associated with scaling to the level required for advanced clinical trials or commercialization, including, among others, increased costs, potential problems with process scale-out, process reproducibility, stability issues, lot consistency, loss of product, and timely availability of reagents or raw materials or contract manufacturing services or facilities. A failure to develop such a commercially viable process within anticipated timescales may prevent or delay progression of our T-cell therapies into pivotal clinical trials and ultimately commercialization. In addition, we may ultimately be unable to reduce the expenses associated with our SPEAR T-cells to levels that will allow us to achieve a profitable return on investment.

We are in the process of developing and transferring new processes to facilitate such manufacture into third-party contract suppliers. Any delay in the development and transfer of these new processes to the third-party contract supplier or inability of the third-party contract supplier to replicate or carry out the transferred process at the appropriate level and quality will result in delays in our ability to progress clinical programs, further develop our SPEAR T-cells and obtain marketing approval for our SPEAR T-cells. Such process scale-up and transfer will also require a demonstration of comparability between the product used in clinical trials and the potential commercial product manufactured by the new process at the new facility. If we are unable to demonstrate that our commercial scale product is comparable to the product used in clinical trials, or the regulatory authority requires additional comparability testing to be carried out, we may not receive regulatory approval for that product without additional clinical trials. We cannot guarantee that we will be able to make the required modifications or perform the required comparability testing within currently anticipated timeframes or that such modifications or comparability testing, when made, will obtain regulatory approval or that the new processes or modified processes will successfully be transferred to the third party contract suppliers within currently anticipated timeframes.

Transfer of our new process for manufacture of the lentiviral vector used to manufacture our NY-ESO SPEAR T-cells to our third party contract manufacturing organization ("CMO") has taken substantially longer than originally predicted. There is no guarantee that such technology will be successfully transferred to such third party CMO in the near term or at all. If such transfer is not possible or fails to generate the required levels of product we may need to source alternative CMOs. Any delay, whether in end T-cell product or vector product will also impact when clinical trials may start. Such failure may also impact our collaboration with GSK and result in GSK not exercising options or not developing any of our additional SPEAR T-cells. Even if we are successful, our manufacturing capabilities could be affected by increased costs, unexpected delays, equipment failures, labor shortages, natural disasters, power failures and numerous other factors that could prevent us from realizing the intended benefits of our manufacturing strategy, which in turn could have a material adverse effect on our business.

We have insurance to cover certain business interruption events, particularly research and development expenditure (capped at £10 million) and committed costs (capped at £250,000). However, because our level of insurance is capped, it may be insufficient to fully compensate us if any of these events were to occur in the future.

Our manufacturing process needs to comply with FDA regulations and foreign regulations relating to the quality and reliability of such processes. Any failure to comply with relevant regulations could result in delays in or termination of our clinical programs and suspension or withdrawal of any regulatory approvals.

In order to commercially produce our products, we will need to comply with the FDA's cGMP requirements. Such compliance requirements will also apply to any manufacture of SPEAR T-cells at our Navy Yard manufacturing facility, once operational. We may encounter difficulties in achieving quality control and quality assurance and may experience shortages in qualified personnel. We and our third party contract manufacturers are subject to inspections by the FDA and comparable agencies in other jurisdictions to confirm compliance with applicable regulatory requirements once the process has been approved. Any failure to follow cGMP or other regulatory requirements or delay, interruption or other issues that arise in the manufacture, fill-finish, packaging, or storage of our SPEAR T-cells as a result of a failure of our facilities or the facilities or operations of third parties to comply with regulatory requirements or pass any regulatory authority inspection could significantly impair our ability to develop and commercialize our SPEAR T-cells, including leading to significant delays in the availability of our SPEAR T-cells for our clinical trials or the termination of or suspension of a clinical trial, or the delay or prevention of a filing or approval of marketing applications for our SPEAR T-cells. Significant non-compliance could also result in the imposition of sanctions, including warning letters, fines, injunctions, civil penalties, failure of regulatory authorities to grant marketing approvals for our SPEAR T-cells, delays, suspension or withdrawal of approvals, license revocation, seizures or recalls of products, operating restrictions and criminal prosecutions, any of which could damage our reputation and our business.

When we start manufacturing our SPEAR T-cells at our own facility, there is no guarantee that regulatory authorities will not raise non-compliance issues or that regulatory authorities may require us to make changes to the way in which the facility is operated. This may result in a delay in our ability to manufacture SPEAR T-cells at our own facility. In addition, once our manufacturing facility is up and running there is no guarantee that any SPEAR T-cells produced in such facility will be able to meet regulatory requirements or that we will be able to recruit sufficient staff to enable manufacture of products within required timescales. Any failure to meet regulatory requirements or produce SPEAR T-cells according to regulatory requirements could result in delays to our clinical programs and may result in withdrawal of regulatory approval for our manufacturing facility.

The outcome of clinical trials is uncertain and our clinical trials may fail to demonstrate adequately the safety and efficacy of any of our SPEAR T-cells which would prevent or delay regulatory approval and commercialization.

There is a risk in any clinical trial (whether sponsored by us or investigator-initiated) that side effects from our SPEAR T-cells will require a hold on, or termination of, our clinical programs or further adjustments to our clinical programs in order to progress our SPEAR T-cell. Our SPEAR T-cells are novel and unproven and regulators will therefore require evidence that the SPEAR T-cells are safe before permitting clinical trials to commence and evidence that the SPEAR T-cells are safe and effective before granting any regulatory approval. In particular, because our SPEAR T-cells are subject to regulation as biological products, we will need to demonstrate that they are safe, pure and potent for use in each target indication. The SPEAR T-cell must demonstrate an acceptable benefit:risk profile in its intended patient population and for its intended use. The benefit:risk profile required for product licensure will vary depending on these factors and may include not only the ability to show tumor shrinkage, but also adequate duration of response, a delay in the progression of the disease and/or an improvement in survival. For example, response rates from the use of our SPEAR T-cells will not be sufficient to obtain regulatory approval unless we can also show an adequate duration of response. The FDA previously issued a partial clinical hold for the Company's MRCLS trial with NY-ESO following review of the IND submitted for the trial. This partial clinical hold has now been lifted. However, there can be no guarantee that the FDA or other regulatory authorities will not issue further clinical holds in relation to the MRCLS trial or other trials.

The regulatory authorities (including the FDA) may issue a hold on our clinical trials as a result of safety information and data obtained in third party clinical trials. For example the deaths reported in a trial using a CAR-T directed against CD19 (JCAR-015) in adult patients with Adult Lymphoblastic Leukemia (ALL) (Juno Therapeutics, NCT02535364) may impact on our ability to further advance our clinical trials with clinical sites or result in the FDA requiring amendments or changes to the protocols used for our clinical trials. Based on the data currently available to us in relation to our clinical trials there is no evidence that the neurotoxicity observed with CD19-directed CAR-T cell treatments, including the fatal events observed in the NCT02535364 trial occur with Adaptimmune's NY-ESO-1 TCRs and we do not therefore believe that any changes to our SPEAR T-cell clinical trial protocols are required. However, there is no guarantee that the FDA or other regulatory authorities will agree with that position and further education and discussion with regulatory authorities may be required. Any such hold will require addressing by the Company and will inevitably delay progression of the clinical trials progress at all.

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Clinical testing is expensive and can take many years to complete, and its outcome is inherently uncertain. Failure can occur at any time during the clinical trial process. Success in preclinical programs and early clinical trials does not ensure that later clinical trials will be successful. For example, our SPEAR T-cells have only been used in Phase 1/2 clinical trials to date and the extent to which our SPEAR T-cells will continue to persist in patients and, if they do persist, continue to have an effect in patients is currently unknown. Moreover, the results of preclinical programs and early clinical trials of our SPEAR T-cells may not be predictive of the results of later-stage clinical trials. To date, we have only obtained interim results from Phase 1/2 clinical trials that are uncontrolled, involve small sample sizes and are of shorter duration than might be required for regulatory approval. There may be other reasons why our early clinical trials are not predictive of later clinical trials. In addition, the results of trials in one set of patients or line of treatment may not be predictive of those obtained in another and protocols may need to be revised based on unexpected early results. For example, in our ovarian cancer trial with our NY-ESO SPEAR T-cell, the first patient treated experienced a grade 3 cytokine release syndrome at day seven post-infusion, concomitant with a significant proliferation of the engineered T cells that constituted nearly 100% of the peripheral blood at day 14. This level of cytokine release syndrome had not been seen in previous results from trials using our NY-ESO SPEAR T-cell. The patient's tumor markers were also falling during this time. To manage the cytokine release syndrome, the patient was treated with high dose steroids that likely abrogated the engineered T-cell function. The protocol was then modified to allow for use of the anti-IL6R antibody, tocilizumab, for treatment of cytokine release syndrome in future patients, which has been shown to control cytokine r

We expect there may be greater variability in results for our SPEAR T-cells which are administered on a patient-by-patient basis than for "off-the-shelf" products, like many other biologics. There is typically an extremely high rate of attrition from the failure of any products proceeding through clinical trials. SPEAR T-cells in later stages of clinical trials may fail to show the desired safety and efficacy profile despite having progressed through preclinical programs and initial clinical trials. A number of companies in the biopharmaceutical industry have suffered significant setbacks in advanced clinical trials due to lack of efficacy or unacceptable safety issues, notwithstanding promising results in earlier trials. Most biologic candidates that begin clinical trials are never approved by regulatory authorities for commercialization. We cannot therefore guarantee that we will be successful in obtaining the required efficacy and safety profile from the performance of any of our clinical programs.

Certain of our clinical trials include dose escalation studies in which the dose of SPEAR T-cells administered to patients is varied or initial studies in which the pretreatment regimen may be varied, for example a regimen with and without fludarabine. The outcome of such dose escalation or initial studies will inform the clinical study going forward. However, the need to carry out dose escalation or other initial studies may result in delays in data from such clinical programs while the most suitable dose or regimen is assessed. For example, the trial design for our MAGE-A4 and AFP trials includes dose escalation and therefore efficacy data may not be obtained from initial patients treated in such studies.

In addition, even if such trials are successfully completed, we cannot guarantee that the FDA or foreign regulatory authorities will interpret the results as we do. Accordingly, more trials may be required before we can submit our SPEAR T-cell for regulatory approval. To the extent that the results of the trials are not satisfactory to the

FDA or foreign regulatory authorities for support of a marketing application, we may be required to expend significant resources, which may not be available to us, to conduct additional trials in support of potential approval of our SPEAR T-cells. We cannot predict whether any of our SPEAR T-cells will satisfy regulatory requirements at all or for indications in which such SPEAR T-cells are currently being evaluated as part of any clinical programs.

We have limited experience conducting clinical trials which may cause a delay in any clinical program and in the obtaining of regulatory approvals.

Although we have recruited a team that has significant experience with clinical trials, as a company we have limited experience in conducting clinical trials and no experience in conducting clinical trials through to regulatory approval. In part because of this lack of experience, we cannot be certain that planned clinical trials will begin or be completed on time, if at all. Large-scale trials would require significant additional financial and management resources, and reliance on third-party clinical investigators, contract research organizations, or CROs, or consultants. Relying on third-party clinical investigators, consultants or CROs may force us to encounter delays that are outside of our control.

Our SPEAR T-cells may have undesirable side effects or have other properties that could halt their clinical development, prevent their regulatory approval, limit their commercial potential or otherwise result in significant negative consequences.

Where any SPEAR T-cell has undesirable side effects, regulatory approval for such therapeutic may be delayed or suspended, or alternatively may be restricted to particular disease indications or states that are more limited than desirable. This could result in the failure of our products reaching the market or a reduction in the patient population for which any SPEAR T-cell can be used.

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As of January 5, 2017, 61 subjects have received NY-ESO SPEAR T-cells in Adaptimmune-sponsored studies. The most common (>15%) adverse events in these subjects considered by investigators to be at least possibly related to our NY-ESO SPEAR T-cells include: fever, diarrhea, fatigue, rash, nausea, anemia, dyspnea, CRS, lymphopenia, leukopenia, cough, ALT increased, AST increased, hypotension, sinus tachycardia, neutropenia, and thrombocytopenia. Adverse events with severity grade 3 or higher considered by investigators to be at least possibly related and occurring in more than one patient include lymphopenia, leukopenia, anemia, neutropenia, febrile neutropenia, diarrhea, CRS, graft versus host disease, hyponatremia, and musculoskeletal chest pain. There has been one report of fatal (grade 5) bone marrow failure which was considered related to study treatment by the investigator in the trial. Internal investigations have not identified a mechanism by which NY-ESO SPEAR T-cells may have caused bone marrow failure. Serious adverse events (SAEs) have also been reported on our Company sponsored clinical programs. SAEs considered by investigators to be at least possibly related and occurring in more than one patient include: fever, cytokine release syndrome, dehydration, graft versus host disease, neutropenia, and rash. To date, GVHD, impacting the skin and gastrointestinal tract, has only been reported in our myeloma study involving autologous stem cell transplants (ASCT). Although GVHD is a known complication of ASCT, symptoms such as rash, colitis and diarrhea have been reported in other NY-ESO SPEAR T-cell studies. There have also been reports of serious unexpected adverse reactions considered at least possibly related by investigators in our trials: grade 2 rhabdomyolysis possibly due to breakdown of a myeloma plasmacytoma that was thought to be infiltrating the muscle tissue based on a CT scan; grade 3 dehydration requiring overnight hospital admission; grade 4 supraventricular tachycardia (SVT) in one patient a

In our NY-ESO SPEAR T-cell trials, CRS has been reported in 13/61 subjects who received NY-ESO SPEAR T-cells as of January 2, 2017. Of these 13 subjects, five subjects have experienced CRS at either Grade 3 or 4 in severity. Within cohorts 1-4 of our synovial sarcoma trial as of March 30, 2017, four subjects out of 28 patients evaluated have experienced CRS at Grade 3 or 4. There have been no reports as of March 30, 2017 of severe neurologic effects of CRS and no fatal CRS events. Subjects with more severe CRS symptoms have generally responded to treatment with the anti-IL6R antibody, tocilizumab. All Adaptimmune protocols now allow for use of tocilizumab for treatment of cytokine release syndrome. Tocilizumab has been shown to control cytokine release syndrome likely without abrogating the anti-tumor response.

In addition to our Company sponsored clinical programs, our NY-ESO TCR therapeutic has also been used in an investigator-initiated clinical program funded by the European Union, referred to as the ATTACK 2 program. The therapy, which was produced under a different manufacturing process than Adaptimmune's NY-ESO TCR therapy, was being evaluated for the treatment of patients with advanced gastro-esophageal cancer for the first time. To date, two patients have been treated under this protocol, one of whom passed away 46 days after initial treatment. Said patient experienced enterocolitis and bone marrow failure followed by fatal gangrenous gastrointestinal necrosis and hemorrhage. The investigator determined there was a reasonable possibility that these events were caused by study treatment. Enrollment in the trial was temporarily paused pending investigation of the patient fatality but an independent data monitoring committee has since recommended that recruitment can resume following a protocol amendment. The European Union has since terminated funding of the trial due to the delays in trial progression and the Company is in discussions with the sponsor, the Christie NHS Trust, in relation to continuation of the trial. The trial is not enrolling patients whilst these discussions continue. The enrollment of patients in our own sponsored clinical trials using our NY-ESO SPEAR T-cells have not been affected so far, although regulatory authorities in the United Kingdom and United States were informed of the event. If and when recruitment re-starts in this program, if any safety risk to patients is identified which is potentially associated with our NY-ESO SPEAR T-cell, our Company sponsored clinical trials could be affected, including the possibility of being placed on hold.

Any unacceptable toxicities arising in ongoing clinical programs could result in suspension or termination of those clinical programs. Any suspension or termination may affect other SPEAR T-cells and thereby impact our ability to recognize any product revenues. Any side effects may also result in the need to perform additional trials, which will delay regulatory approval for such SPEAR T-cell, if at all, and require additional resources and financial investment to bring the relevant SPEAR T-cell to market.

In addition, the impact of SPEAR T-cells may vary from patient to patient and this may affect the number of patients who can be successfully treated with our SPEAR T-cells. Depending on the nature of the indication, certain patients may need to be excluded from treatment, which could also impact our ability to recruit patients to utilize such therapies or to recruit patients to conduct clinical trials in general for our SPEAR T-cells.

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Use of our SPEAR T-cells in combination with other third party products or therapies, for example use in combination with Merck's PD-1 inhibitor, KEYTRUDA® (pembrolizumab) in patients with multiple myeloma may increase or exacerbate side effects that have been seen with our SPEAR T-cells alone or may result in new side effects that have not previously been identified with our SPEAR T-cells alone. Our SPEAR T-cells have not previously been used in any combination clinical trials. Any undesirable side effects seen in combination trials may affect our ability to continue with and obtain regulatory approval for the combination therapy, but may also impact our ability to continue with and obtain regulatory approval for our SPEAR T-cell therapies alone. Adverse events seen in subjects in other clinical trials using the same combination product, for example other clinical combination trials using Merck's PD-1 inhibitor, KEYTRUDA® (pembrolizumab), may affect our ability to progress our own combination trial, resulting in pausing or holding of recruitment or require changes to be made to the protocol to the clinical trial. Merck has recently announced that the FDA has determined that the data available at the present time indicate that the risks of KEYTRUDA plus pomalidomide or lenalidomide outweigh any potential benefit for patients with multiple myeloma. All patients enrolled in KEYNOTE-183 and KEYNOTE-185 combination studies and those in the KEYTRUDA. This clinical hold does not currently apply to other studies with KEYTRUDA. This clinical hold does not currently apply to other studies with KEYTRUDA.

Clinical trials, depending on the stage, can be costly as well as difficult to implement and define, particularly with technologies that are not tried and tested, such as our SPEAR T-cells. These factors can lead to a longer clinical development timeline and regulatory approval process, including a requirement to conduct further or more complex clinical trials in order to obtain regulatory approval. Regulatory authorities may disagree with the design of any clinical program, and designing an acceptable program could lead to increased timeframes for obtaining of approvals, if any. In addition, progression of clinical trials depends on the ability to recruit suitable patients to those trials and delay in recruiting will impact the timeframes of such clinical trials and as a result the timeframes for obtaining regulatory approval, if any, for the relevant SPEAR T-cells.

In particular, eligible patients must be screened for the target peptide and HLA type, which may reduce the number of patients who can be recruited for any clinical program. For example lower than expected patient numbers have been seen in the Company's NSCLC clinical trials with its NY-ESO SPEAR T-cell and MAGE-A10 SPEAR T-cell. The ability to administer our SPEAR T-cells to patients in accordance with set protocols for the clinical trials and the results obtained depends on patient participation for the duration of the clinical trial, which many of these patients are unable to do because of their late-stage cancer and limited life expectancy.

Although the initial results in our clinical trials to date may suggest a promising tolerability profile, these results may not be indicative of results obtained in later and larger clinical trials. Long-term follow-up of patients from earlier trials may also result in detection of additional side effects or identification of other safety issues. There is no guarantee of success in any clinical trial and there is a very high attrition rate for pharmaceutical or biological compounds entering clinical trials. Any side effects or negative safety issues identified at any stage of clinical development will require additional investigation and assessment which can result in additional costs and resource requirements that could delay or potentially terminate our clinical trials.

#### We may face difficulty in enrolling patients in our clinical trials.

We may find it difficult to enroll patients in our clinical trials. For example, in our Phase 1/2 melanoma trial with our NY-ESO SPEAR T-cell, there was a delay in enrollment as a result of competition from other emerging therapies. Identifying and qualifying patients, including testing of patients for appropriate target peptides and HLA type, to participate in clinical trials of our SPEAR T-cells are critical to our success. The patient population in which any required peptide antigen is presented may be lower than expected which will increase the timescales required to find and recruit patients into the applicable clinical trial. For example, fewer patients expressing the required peptide antigens in the Company's NSCLC clinical trials with its NY-ESO SPEAR T-cell and MAGE-A10 SPEAR T-cell have been seen than anticipated. The timing of our clinical trials depends on the speed at which we can recruit patients to participate in testing our SPEAR T-cells. If patients are unwilling to participate in our trials because of negative publicity from adverse events or for other reasons, including competitive clinical trials for similar patient populations, negative results seen in competitive third party clinical trials utilizing similar cell therapy products, the timeline for recruiting patients, conducting trials and obtaining regulatory approval of potential products may be delayed or prevented. These delays could result in increased costs, delays in advancing our product development, delays in testing the effectiveness of our technology or termination of the clinical trials altogether. We may not be able to identify, recruit and enroll a sufficient number of patients, or those with required or desired characteristics to achieve sufficient diversity in a given trial in order to complete our clinical trials in a timely manner. Patient enrollment is affected by factors including:

- · eligibility criteria for the trial in question, in particular, presenting the correct HLA type and expression levels of the target antigen;
- · ability to detect required expression levels of target antigens in any patient population;

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- · ability to detect required target antigens in any patient population and to set detection levels at an appropriate level to facilitate patient recruitment;
- · severity of the disease under investigation;
- design of the trial protocol;
- · size of the patient population;
- perceived risks and benefits of the SPEAR T-cell under trial;
- · novelty of the SPEAR T-cell and acceptance by oncologists;
- $\cdot$   $\;$  proximity and availability of clinical trial sites for prospective patients;
- · availability of competing therapies and clinical trials;
- · efforts to facilitate timely enrollment in clinical trials;
- · patient referral practices of physicians;
- changes in the underlying standard of care applicable or treatments available for the relevant indication for which a patient is being treated; and
- · ability to monitor patients adequately during and after treatment.

If we have difficulty enrolling a sufficient number of patients to conduct our clinical trials as planned, we may need to delay, limit or terminate ongoing or planned clinical trials, any of which would have an adverse effect on our business.

#### Our SPEAR T-cells for which we intend to seek approval as biologic products may face competition sooner than anticipated.

The enactment of the Biologics Price Competition and Innovation Act of 2009, or BPCIA, created an abbreviated pathway for the approval of biosimilar and interchangeable biological products. The abbreviated regulatory pathway establishes legal authority for the FDA to review and approve biosimilar biologics, including the possible designation of a biosimilar as "interchangeable" based on its similarity to an existing reference product. Under the BPCIA, an application for a biosimilar product cannot be approved by the FDA until 12 years after the original branded product is approved under a BLA. On March 6, 2015, the FDA approved the first biosimilar product under the BPCIA. However, the law is complex and is still being interpreted and implemented by the FDA and as a result, its ultimate impact, implementation and meaning are subject to uncertainty. While it is uncertain when such processes intended to implement BPCIA may be fully adopted by the FDA, any such processes could have a material adverse effect on the future commercial prospects for our biological products.

We believe that if our NY-ESO SPEAR T-cell is approved as a biological product under a BLA it should qualify for the 12-year period of exclusivity. However, there is a risk that the FDA will not consider our NY-ESO SPEAR T-cell or any additional SPEAR T-cells to be reference products for competing products, potentially creating the opportunity for generic competition sooner than anticipated. Additionally, this period of regulatory exclusivity does not apply to companies pursuing regulatory approval via their own traditional BLA, rather than via the abbreviated pathway. Moreover, the extent to which a biosimilar, once approved, will be substituted for any one of our reference products in a way that is similar to traditional generic substitution for non-biological products is not yet clear, and will depend on a number of marketplace and

regulatory factors that are still developing.

Foreign countries also have abbreviated regulatory pathways for biosimilars and hence even where the FDA does not approve a biosimilar biologic, a biosimilar could be approved using an abbreviated regulatory pathway in other markets where our SPEAR T-cells are approved and marketed.

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#### **Risks Related to Government Regulation**

The FDA regulatory approval process is lengthy and time-consuming, and we may experience significant delays in the clinical development and regulatory approval of our SPEAR T-cells.

We have not previously submitted a BLA to the FDA, or similar approval submissions to comparable foreign authorities. A BLA must include extensive preclinical and clinical data and supporting information to establish the SPEAR T-cell's safety and effectiveness for each desired indication. The BLA must also include significant information regarding the chemistry, manufacturing and controls for the product. We expect the novel nature of our SPEAR T-cells to create additional challenges in obtaining regulatory approval, if at all. For example, the FDA has limited experience with commercial development of T-cell therapies for cancer. Accordingly, the regulatory approval pathway for our SPEAR T-cells may be uncertain, complex, expensive and lengthy, and approval may not be obtained. In relation to our NY-ESO SPEAR T-cell in synovial sarcoma, the FDA has requested certain additional information be made available as part of the Company's application to conduct a pivotal study in synovial sarcoma, including a requirement to assess comparability between the manufacturing process used for the initial synovial sarcoma trials and the commercial-ready manufacturing process intended to be used in pivotal trials. The FDA also recommended that the Company file a SPA in relation to the design of the pivotal study. Such requirements and requests for additional information can delay the start of the pivotal trial and there is no guarantee that the FDA will not continue to require further or additional information ahead of approving any pivotal trial.

We could also encounter delays if physicians encounter unresolved ethical issues associated with enrolling patients in clinical trials of our SPEAR T-cells in lieu of prescribing existing treatments that have established safety and efficacy profiles. Further, a clinical trial may be suspended or terminated by us, the sponsor of an investigator-initiated trial, IRBs for the institutions in which such trials are being conducted, the Data Monitoring Committee for such trial, or by the FDA or other regulatory authorities due to a number of factors, including failure to conduct the clinical trial in accordance with regulatory requirements or our clinical protocols, inspection of the clinical trial operations or trial site by the FDA or other regulatory authorities resulting in the imposition of a clinical hold, unforeseen safety issues or adverse side effects, failure to demonstrate a benefit from using a SPEAR T-cell, changes in governmental regulations or administrative actions or lack of adequate funding to continue the clinical trial. If we experience termination of, or delays in the completion of, any clinical trial of our SPEAR T-cells, the commercial prospects for our SPEAR T-cells will be harmed, and our ability to generate product revenue will be delayed. In addition, any delays in completing our clinical trials will increase our costs, slow our product development and approval process and jeopardize our ability to commence product sales and generate revenue.

Many of the factors that cause, or lead to, a delay in the commencement or completion of clinical trials may ultimately lead to the denial of regulatory approval of our SPEAR T-cells.

The FDA regulatory process can be difficult to predict, in particular whether for example accelerated approval processes are available or further unanticipated clinical trials are required will depend on the data obtained in our ongoing clinical trials.

The regulatory approval process and the amount of time it takes us to obtain regulatory approvals for our SPEAR T-cells will depend on the data that are obtained in our ongoing clinical trials and in one or more future registration or pivotal clinical trials. We may attempt to seek approval on a per indication basis for our SPEAR T-cells on the basis of a single pivotal trial. While the FDA requires in most cases two adequate and well-controlled pivotal clinical trials to demonstrate the efficacy of a product candidate, a single pivotal trial with other confirmatory evidence may be sufficient in rare instances where the trial is a large multicenter trial demonstrating internal consistency and a statistically very persuasive finding of a clinically meaningful effect on mortality, irreversible morbidity or prevention of a disease with a potentially serious outcome and confirmation of the result in a second trial would be practically or ethically impossible. Depending on the data we obtain, the FDA or other regulatory authorities may require additional clinical trials to be carried out or further patients to be treated prior to the granting of any regulatory approval for marketing of our SPEAR T-cells. It is difficult for us to predict with such a novel technology exactly what will be required by the regulatory authorities in order to take our SPEAR T-cells to market or the timeframes under which the relevant regulatory approvals can be obtained.

We have obtained breakthrough therapy status for our NY-ESO SPEAR T-cell for the treatment of certain patients with inoperable or metastatic synovial sarcoma who have received prior chemotherapy. Depending on the data that is obtained by us in our current and future clinical trials in other indications for our NY-ESO SPEAR T-cell or for our other SPEAR T-cells, we may seek breakthrough therapy or fast track designation or accelerated approval from the FDA for our SPEAR T-cells and equivalent accelerated approval procedures in other countries. However, given the novel nature of our SPEAR T-cells, it is difficult for us to predict or guarantee whether the FDA or other regulatory authorities will approve such requests or what further clinical or other data may be required to support an application for such accelerated approval procedures.

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The process of obtaining marketing approvals, both in the United States and abroad, is expensive, may take many years if additional clinical trials are required, if approval is obtained at all, and can vary substantially based upon a variety of factors, including the type, complexity and novelty of the SPEAR T-cells involved. Changes in marketing approval policies during the development period, changes in or the enactment of additional statutes or regulations, or changes in regulatory review for each submitted product application, may cause delays in the approval or rejection of an application. The FDA and foreign regulatory authorities also have substantial discretion in the drug and biologics approval process. The number and types of preclinical programs and clinical trials that will be required for regulatory approval varies depending on the SPEAR T-cell, the disease or condition that the SPEAR T-cell is designed to address, and the regulations applicable to any particular SPEAR T-cell. Approval policies, regulations or the type and amount of clinical data necessary to gain approval may change during the course of a SPEAR T-cell's clinical development and may vary among jurisdictions, and there may be varying interpretations of data obtained from preclinical programs or clinical trials, either of which may cause delays or limitations in the approval or the decision not to approve an application. In addition, approval of our SPEAR T-cells could be delayed or refused for many reasons, including the following:

- the FDA or comparable foreign regulatory authorities may disagree with the design or implementation of our clinical trials;
- we may be unable to demonstrate to the satisfaction of the FDA or comparable foreign regulatory authorities that our SPEAR T-cells are safe and effective for any of their proposed indications;
- the results of clinical trials may not meet the level of statistical significance required by the FDA or comparable foreign regulatory authorities for approval;
- · we may be unable to demonstrate that our SPEAR T-cells' clinical and other benefits outweigh their safety risks;
- the FDA or comparable foreign regulatory authorities may disagree with our interpretation of data from preclinical programs or clinical trials;

- the data collected from clinical trials of our SPEAR T-cells may not be sufficient to the satisfaction of the FDA or comparable foreign regulatory authorities to support the submission of a BLA or other comparable submission in foreign jurisdictions or to obtain regulatory approval in the United States or elsewhere;
- our manufacturing processes or facilities or those of the third-party manufacturers with which we may not be adequate to support approval of our SPEAR T-cells;
- the approval policies or regulations of the FDA or comparable foreign regulatory authorities may significantly change in a manner rendering our clinical data insufficient for approval.

It is possible that none of our SPEAR T-cells will ever obtain the appropriate regulatory approvals necessary to commercialize the TCR therapeutics. Any delay in obtaining, or failure to obtain, required approvals would materially adversely affect our ability to generate revenue from the particular SPEAR T-cell, which would result in significant harm to our business.

Obtaining and maintaining regulatory approval of our SPEAR T-cells in one jurisdiction does not mean that we will be successful in obtaining regulatory approval of our SPEAR T-cells in other jurisdictions.

Obtaining and maintaining regulatory approval of our SPEAR T-cells in one jurisdiction does not guarantee that we will be able to obtain or maintain regulatory approval in any other jurisdiction, while a failure or delay in obtaining regulatory approval in one jurisdiction may have a negative effect on the regulatory approval process in others. For example, even if the FDA grants marketing approval of a SPEAR T-cell, comparable regulatory authorities in foreign jurisdictions must also approve the manufacturing, marketing and promotion of the SPEAR T-cell in those countries. Approval procedures vary among jurisdictions and can involve requirements and administrative review periods different from, and greater than, those in the United States, including additional preclinical programs or clinical trials as clinical trials conducted in one jurisdiction may not be accepted by regulatory authorities in other jurisdictions. In many jurisdictions outside the United States, a SPEAR T-cell must be approved for reimbursement before it can be approved for sale in that jurisdiction. In some cases, the price that we intend to charge for our SPEAR T-cells is also subject to approval.

We may also submit marketing applications in other countries. Regulatory authorities in jurisdictions outside of the United States have requirements for approval of SPEAR T-cells with which we must comply prior to marketing in those jurisdictions. Obtaining foreign regulatory approvals and compliance with foreign regulatory requirements could result in significant delays, difficulties and costs for us and could delay or prevent the introduction of our SPEAR T-cells in certain countries. If we fail to comply with the regulatory requirements in international markets and/or receive applicable marketing approvals, our target market will be reduced and our ability to realize the full market potential of our SPEAR T-cells will be harmed.

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We plan to seek breakthrough therapy or fast track designations and may pursue accelerated approval for some or all of our current SPEAR T-cells, but we may be unable to obtain such designations or, in the case of NY-ESO, maintain its breakthrough therapy designation or, obtain or maintain the benefits associated with such designations.

We have obtained breakthrough therapy status for our NY-ESO SPEAR T-cell for the treatment of certain patients with inoperable or metastatic synovial sarcoma who have received prior chemotherapy. We may seek breakthrough therapy or fast track designations for our other SPEAR T-cells in the United States or equivalent regulations elsewhere in the world or in other indications for our NY-ESO SPEAR T-cell.

In 2012, the FDA established a breakthrough therapy designation which is intended to expedite the development and review of products that treat serious or life-threatening diseases when "preliminary clinical evidence indicates that the drug may demonstrate substantial improvement over existing therapies on one or more clinically significant endpoints, such as substantial treatment effects observed early in clinical development." The designation of a SPEAR T-cell as a breakthrough therapy provides potential benefits that include more frequent meetings with the FDA to discuss the development plan for the SPEAR T-cell and ensure collection of appropriate data needed to support approval; more frequent written correspondence from the FDA about things such as the design of the proposed clinical trials and use of biomarkers; intensive guidance on an efficient drug development program, beginning as early as Phase 1; organizational commitment involving senior managers; and eligibility for rolling review and priority review.

Breakthrough therapy designation does not change the standards for product approval. There can be no assurance that we will receive breakthrough therapy designation for any SPEAR T-cell or any particular indication. Additionally, other treatments from competing companies may obtain the designations and impact our ability to develop and commercialize our SPEAR T-cells, which may adversely impact our business, financial condition or results of operation.

We may also seek fast track designation. If a drug or biologic candidate is intended for the treatment of a serious or life-threatening condition or disease and the drug demonstrates the potential to address unmet medical needs for the condition, the sponsor may apply for fast track designation. Under the fast track program, the sponsor of a new drug or biologic candidate may request that the FDA designate the candidate for a specific indication as a fast track drug or biologic concurrent with, or after, the submission of the IND for the candidate. The FDA must determine if the drug or biologic candidate qualifies for fast track designation within 60 days of receipt of the sponsor's request. Even if we do apply for and receive fast track designation, we may not experience a faster development, review or approval process compared to conventional FDA procedures. The FDA may withdraw fast track designation if it believes that the designation is no longer supported by data from our clinical development program.

We may also seek accelerated approval under the FDA's fast track and accelerated approval programs, the FDA may approve a drug or biologic for a serious or life-threatening illness that provides meaningful therapeutic benefit to patients over existing treatments based upon a surrogate endpoint that is reasonably likely to predict clinical benefit, or on a clinical endpoint that can be measured earlier than irreversible morbidity or mortality, that is reasonably likely to predict an effect on irreversible morbidity or mortality or other clinical benefit, taking into account the severity, rarity, or prevalence of the condition and the availability or lack of alternative treatments. For drugs granted accelerated approval, post-marketing confirmatory trials have been required to describe the anticipated effect on irreversible morbidity or mortality or other clinical benefit. These confirmatory trials must be completed with due diligence. Moreover, the FDA may withdraw approval of our SPEAR T-cell or indication approved under the accelerated approval pathway if, for example:

- the trial or trials required to verify the predicted clinical benefit of our SPEAR T-cell fail to verify such benefit or do not demonstrate sufficient clinical benefit to justify the risks associated with the drug;
- $\cdot \quad \text{other evidence demonstrates that our SPEAR T-cell is not shown to be safe or effective under the conditions of use;} \\$
- we fail to conduct any required post approval trial of our SPEAR T-cell with due diligence; or
- we disseminate false or misleading promotional materials relating to the relevant SPEAR T-cell.

Even if we receive regulatory approval of our SPEAR T-cells, we will be subject to ongoing regulatory obligations and continued regulatory review, which may result in significant additional expense as well as significant penalties if we fail to comply with regulatory requirements or experience unanticipated problems with our SPEAR T-cells.

Any regulatory approvals that we receive for our SPEAR T-cells will require surveillance to monitor the safety and efficacy of the SPEAR T-cell. The FDA may also require a risk evaluation and mitigation strategy in order to approve our SPEAR T-cells, which could entail requirements for a medication guide, physician communication plans or additional elements to ensure safe use, such as restricted distribution methods, patient registries and other risk minimization tools. In addition, if the FDA or a comparable foreign regulatory authority approves our SPEAR T-cells, the manufacturing processes, labeling, packaging, distribution, adverse event reporting, storage, advertising, promotion, import, export and recordkeeping for our SPEAR T-cells will be subject to extensive and ongoing regulatory requirements. These requirements include submissions of safety and other post-marketing information and reports, registration and listing, as well as continued compliance with cGMPs and cGCPs for any clinical trials that we conduct post-approval. We and our contract manufacturers will be subject to periodic unannounced inspections by the FDA to monitor and ensure compliance with cGMPs. We must also comply with requirements concerning advertising and promotion for any SPEAR T-cells for which we obtain marketing approval. Promotional communications with respect to prescription drugs, including biologics, are subject to a variety of legal and regulatory restrictions and must be consistent with the information in the product's approved labeling. Thus, we will not be able to promote any SPEAR T-cells we develop for indications or uses for which they are not approved. Later discovery of previously unknown problems with our SPEAR T-cells, including adverse events of unanticipated severity or frequency, or with our third-party manufacturers or manufacturing processes, or failure to comply with regulatory requirements, may result in, among other things:

- · restrictions on our ability to conduct clinical trials, including full or partial clinical holds on ongoing or planned trials;
- · restrictions on such products' manufacturing processes;
- restrictions on the marketing of a product;
- restrictions on product distribution;
- · requirements to conduct post-marketing clinical trials;
- · untitled or warning letters;
- · withdrawal of the products from the market;
- · refusal to approve pending applications or supplements to approved applications that we submit;
- recall of products;
- · fines, restitution or disgorgement of profits or revenue;
- · suspension or withdrawal of regulatory approvals;
- · refusal to permit the import or export of our products;
- product seizure;
- · injunctions;
- · imposition of civil penalties; or
- · criminal prosecution.

The FDA's and other regulatory authorities' policies may change and additional government regulations may be enacted that could prevent, limit or delay regulatory approval of our SPEAR T-cells. We cannot predict the likelihood, nature or extent of government regulation that may arise from future legislation or administrative action, either in the United States or abroad. If we are slow or unable to adapt to changes in existing requirements or the adoption of new requirements or policies, or if we are not able to maintain regulatory compliance, we may lose any marketing approval that we may have obtained and we may not achieve or sustain profitability.

In addition, if following a pivotal clinical trial we were able to obtain accelerated approval of our NY-ESO SPEAR T-cell, the FDA will require us to conduct a confirmatory trial or trials to verify the predicted clinical benefit and additional safety studies. The results from the confirmatory trial or trials may not support the clinical benefit, which would result in the approval being withdrawn.

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We may seek a conditional marketing authorization in Europe for some or all of our current SPEAR T-cells, but we may not be able to obtain or maintain such authorization.

As part of its marketing authorization process, the EMA may grant marketing authorizations for certain categories of medicinal products on the basis of less complete data than is normally required, when doing so may meet unmet medical needs of patients and serve the interest of public health. In such cases, it is possible for the Committee for Medicinal Products for Human Use, or CHMP, to recommend the granting of a marketing authorization, subject to certain specific obligations to be reviewed annually, which is referred to as a conditional marketing authorization. This may apply to medicinal products for human use that fall under the jurisdiction of the EMA, including those that aim at the treatment, the prevention, or the medical diagnosis of seriously debilitating diseases or life-threatening diseases and those designated as orphan medicinal products.

A conditional marketing authorization may be granted when the CHMP finds that, although comprehensive clinical data referring to the safety and efficacy of the medicinal product have not been supplied, all the following requirements are met:

- · the risk-benefit balance of the medicinal product is positive;
- · it is likely that the applicant will be in a position to provide the comprehensive clinical data;
- · unmet medical needs will be fulfilled; and

the benefit to public health of the immediate availability on the market of the medicinal product concerned outweighs the risk inherent in the fact that additional data is still required.

The granting of a conditional marketing authorization is restricted to situations in which only the clinical part of the application is not yet fully complete. Incomplete preclinical or quality data may only be accepted if duly justified and only in the case of a product intended to be used in emergency situations in response to public-health threats. Conditional marketing authorizations are valid for one year, on a renewable basis. The holder will be required to complete ongoing trials or to conduct new trials with a view to confirming that the benefit-risk balance is positive. In addition, specific obligations may be imposed in relation to the collection of pharmacovigilance data.

Granting a conditional marketing authorization allows medicines to reach patients with unmet medical needs earlier than might otherwise be the case and will ensure that additional data on a product are generated, submitted, assessed and acted upon. Although we may seek a conditional marketing authorization for one or more of our SPEAR T-cells by the EMA, the EMA or CHMP may ultimately not agree that the requirements for such conditional marketing authorization have been satisfied and hence delay the commercialization of our SPEAR T-cells.

#### We may not be able to obtain or maintain orphan drug exclusivity for our SPEAR T-cells.

Regulatory authorities in some jurisdictions, including the United States and Europe, may designate drugs or biologics for relatively small patient populations as orphan drugs. Under the Orphan Drug Act, the FDA may designate a product as an orphan drug if it is a drug or biologic intended to treat a rare disease or condition, which is generally defined as a patient population of fewer than 200,000 individuals in the United States.

Generally, if a product with an orphan drug designation subsequently receives the first marketing approval for the indication for which it has such designation, the product is entitled to a period of marketing exclusivity, which precludes the EMA or the FDA from approving another marketing application for the same drug for that time period. The applicable period is seven years in the United States and 10 years in Europe. The European exclusivity period can be reduced to six years if a drug no longer meets the criteria for orphan drug designation or if the drug is sufficiently profitable so that market exclusivity is no longer justified. Orphan drug exclusivity may be lost if the FDA or EMA determines that the request for designation was materially defective or if the manufacturer is unable to assure sufficient quantity of the drug to meet the needs of patients with the rare disease or condition.

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Orphan drug designation for our NY-ESO SPEAR T-cells or the treatment of soft tissue sarcoma was granted by the FDA in March 2016. Some of our other SPEAR T-cells or the indications which our SPEAR T-cells are used to treat may be eligible for orphan drug designation. In the United States, under the Orphan Drug Act, the FDA may grant orphan designation to a drug intended to treat a rare disease or condition. Such diseases and conditions are those that affect fewer than 200,000 individuals in the United States or, if they affect more than 200,000 individuals in the United States, there is no reasonable expectation that the cost of developing and making a drug product available in the United States for these types of diseases or conditions will be recovered from sales of the product. If the FDA grants orphan drug designation, the identity of the therapeutic agent and its potential orphan use are disclosed publicly by that agency. Orphan drug designation does not convey any advantage in or shorten the duration of the regulatory review and approval process, but it can lead to financial incentives, such as opportunities for grant funding toward clinical trial costs, tax advantages in-lieu of R&D tax credits and user-fee waivers. If a product that has orphan drug designation subsequently receives the first FDA approval for the disease or condition for which it has such designation, the product is entitled to orphan drug marketing exclusivity for a period of seven years. Orphan drug marketing exclusivity generally prevents the FDA from approving another application, including a full BLA, to market the same drug for the same indication for seven years, except in limited circumstances, including if the FDA concludes that the later drug is clinically superior to the approved drug.

Orphan drug designation for the company's NY-ESO SPEAR T-cell for the treatment of soft tissue sarcoma, a solid tumor cancer has also been granted by the European Union. Orphan drug designation provides certain regulatory and financial incentives for companies to develop and market therapies that treat a life-threatening or chronically debilitating condition affecting no more than five in 10,000 persons in the European Union, and where no satisfactory treatment is available. The designation provides incentives for companies seeking protocol assistance and scientific advice from the EMA during the product development phase and a 10-year period of marketing exclusivity in the European Union following product approval.

A drug is clinically superior if it is safer, more effective or makes a major contribution to patient care. Orphan drug marketing exclusivity rights in the United States may be lost if the FDA later determines that the request for designation was materially defective or if the manufacturer is unable to assure sufficient quantity of the drug to meet the needs of patients with the rare disease or condition. There can be no assurance that any SPEAR T-cell will be eligible for orphan drug designation in the United States or in other jurisdictions or that it will obtain orphan drug marketing exclusivity upon approval or that we will not lose orphan drug designation for our NY-ESO SPEAR T-cell. Inability to obtain orphan drug designation for a specific SPEAR T-cell or loss of such designation for our NY-ESO SPEAR T-cell in the future would prevent us from taking advantage of the financial benefits associated with orphan drug designation and would preclude us from obtaining marketing exclusivity upon approval, if any. Even if we obtain orphan drug exclusivity for a product, that exclusivity may not effectively protect the product from competition because different drugs can be approved for the same condition. The extent of market exclusivity which is obtained may also be affected if the indication for any relevant registration or pivotal trial is narrower than the orphan designation granted. Even after an orphan drug is approved, the FDA can subsequently approve another drug for the same condition if the FDA concludes that the later drug is clinically superior in that it is shown to be safer, more effective or makes a major contribution to patient care.

#### Any failure by us to comply with existing regulations could harm our reputation and operating results.

The production of our SPEAR T-cells is highly regulated and subject to constant inspection. The regulatory environment may also change from time to time. Any failure to comply with regulatory requirements, whether in the United States or in other countries in which our SPEAR T-cells are supplied, may result in investigation by regulatory authorizations and, as a result, suspension of clinical programs or ability to supply any of our SPEAR T-cells and potentially significant fines or other penalties being imposed in relation to any breach. Any failure may also harm our reputation and impact our ability going forward to obtain regulatory approvals for other SPEAR T-cells or require us to undertake additional organizational changes to minimize the risk of further breach.

Our research and development activities utilize hazardous, radioactive and biological materials. Should such materials cause injury or be used other than in accordance with applicable laws and regulations, we may be liable for damages.

We use, hazardous and biological reagents and materials in our research and development at our U.K. site. We also use radioactive reagents and materials in our research and development in the United Kingdom. We have obtained the appropriate certification or ensured that such certification has been obtained as required for the use of these reagents but our use is subject to compliance with applicable laws and there is a risk that should any third party or employee suffer injury or damage from radioactive, hazardous or biological reagents that we may incur liability or obligations to compensate such third parties or employees. We have employer's liability insurance capped at £10.0 million per occurrence and public liability insurance capped at £3.0 million per occurrence; however, these amounts may be insufficient to compensate us if these events actually occur in the future.

laws and other laws governing our operations. If we fail to comply with these laws, we could be subject to civil or criminal penalties, other remedial measures, and legal expenses, which could adversely affect our business, results of operations and financial condition.

Our operations are subject to anti-corruption laws, including the U.K. Bribery Act 2010, or Bribery Act, the U.S. Foreign Corrupt Practices Act, or FCPA, and other anti-corruption laws that apply in countries where we do business. The Bribery Act, the FCPA and these other laws generally prohibit us and our employees and intermediaries from bribing, being bribed or making other prohibited payments to government officials or other persons to obtain or retain business or gain some other business advantage. Under the Bribery Act, we may also be liable for failing to prevent a person associated with us from committing a bribery offense. We and our commercial partners may operate in a number of jurisdictions that pose a high risk of potential Bribery Act or FCPA violations, and we participate in collaborations and relationships with third parties whose actions, if non-compliant, could potentially subject us to liability under the Bribery Act, FCPA or local anti-corruption laws. In addition, we cannot predict the nature, scope or effect of future regulatory requirements to which our international operations might be subject or the manner in which existing laws might be administered or interpreted.

We are also subject to other laws and regulations governing our international operations, including regulations administered by the governments of the United Kingdom and the United States, and authorities in the European Union, including applicable export control regulations, economic sanctions on countries and persons, antimoney laundering laws, customs requirements and currency exchange regulations, collectively referred to as the Trade Control laws.

However, there is no assurance that we will be completely effective in ensuring our compliance with all applicable anti-corruption laws, including the Bribery Act, the FCPA or other legal requirements, including Trade Control laws. If we are not in compliance with the Bribery Act, the FCPA and other anti-corruption laws or Trade Control laws, we may be subject to criminal and civil penalties, disgorgement and other sanctions and remedial measures, and legal expenses, which could have an adverse impact on our business, financial condition, results of operations and liquidity. Likewise, any investigation of any potential violations of the Bribery Act, the FCPA, other anti-corruption laws or Trade Control laws by U.K., U.S. or other authorities could also have an adverse impact on our reputation, our business, results of operations and financial condition.

If we are found in violation of federal or state "fraud and abuse" or other health care laws, we may be required to pay a penalty and/or be suspended from participation in federal or state health care programs, which may adversely affect our business, financial condition and results of operations.

If we obtain marketing approval for our products in the United States, if at all, we will be subject to various federal and state health care "fraud and abuse" and other health care laws. Healthcare providers, physicians and third-party payors play a primary role in the recommendation and use of pharmaceutical products that are granted marketing approval. Accordingly, arrangements with third-party payors, existing or potential customers and referral sources are subject to broadly applicable fraud and abuse and other healthcare laws and regulations, and these laws and regulations may constrain the business or financial arrangements and relationships through which manufacturers market, sell and distribute the products for which they obtain marketing approval.

Such restrictions under applicable federal and state healthcare laws and regulations include the following:

- the federal Anti-Kickback Statute, which prohibits, among other things, persons from knowingly and willfully soliciting, receiving, offering or paying remuneration, directly or indirectly, in cash or kind, in exchange for, or to induce, either the referral of an individual for, or the purchase, order or recommendation of, any good or service for which payment may be made under federal healthcare programs such as the Medicare and Medicaid programs. This statute has been interpreted to apply to arrangements between pharmaceutical manufacturers, on the one hand, and prescribers, purchasers and formulary managers on the other. Cases have been brought under false claims laws alleging that off-label promotion of pharmaceutical products or the provision of kickbacks has resulted in the submission of false claims to governmental health care programs. The Patient Protection and Affordable Care Act, as amended by the Health Care and Education Reconciliation Act, collectively, the Healthcare Reform Act, amended the intent requirement of the federal Anti-Kickback Statute. A person or entity no longer needs to have actual knowledge of this statute or specific intent to violate it. Under federal government regulations, some arrangements, known as safe harbors, are deemed not to violate the federal Anti-Kickback Statute and analogous state law requirements;
- the federal False Claims Act, or FCA, which prohibits, among other things, individuals or entities from knowingly presenting, or causing to be presented, claims for payment from Medicare, Medicaid or other third-party payors that are false or fraudulent. Federal Anti-Kickback Statute violations and certain marketing practices, including off-label promotion, also may implicate the FCA. In addition, private individuals have the ability to bring actions on behalf of the government under the FCA and under the false claims laws of several states;
- · federal criminal laws that prohibit executing a scheme to defraud any healthcare benefit program or making false statements relating to healthcare matters;

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- the federal Physician Payment Sunshine Act, which requires certain manufacturers of drugs, devices, biologics and medical supplies to report annually to the Centers for Medicare & Medicaid Services, or CMS, information related to payments and other transfers of value to physicians, other healthcare providers and teaching hospitals, and ownership and investment interests held by physicians and other healthcare providers and their immediate family members. The CMS publishes the reported data in a searchable form on an annual basis;
- The Health Insurance Portability and Accountability Act of 1996 (HIPAA) imposes criminal and civil liability for executing a scheme to defraud any healthcare benefit program or making false statements relating to healthcare matters;
- HIPAA, as amended by the Health Information Technology for Economic and Clinical Health Act, which governs the conduct of certain electronic healthcare transactions and protects the security and privacy of protected health information; and
- state and foreign law equivalents of each of the above federal laws, such as anti-kickback and false claims laws which may apply to: items or services reimbursed by any third-party payor, including commercial insurers; state laws that require pharmaceutical companies to comply with the pharmaceutical industry's voluntary compliance guidelines and the relevant compliance guidance issued by the federal government or otherwise restrict payments that may be made to healthcare providers and other potential referral sources; state laws that require drug manufacturers to report information related to payments and other transfers of value to physicians and other healthcare providers or marketing expenditures; and state laws governing the privacy and security of health information in certain circumstances, many of which differ from each other in significant ways and may not have the same effect, thus complicating compliance efforts. California and a few other states have passed laws that require pharmaceutical companies to comply with the April 2003 Office of Inspector General Compliance Program Guidance for Pharmaceutical Manufacturers and/or the Pharmaceutical Research and Manufacturers of America Code on Interactions with Healthcare Professionals. In addition, several states impose other marketing restrictions or require pharmaceutical companies to make marketing or price disclosures to the state. There are ambiguities as to what is required to comply with these state requirements and if we fail to comply with an applicable state law requirement we could be subject to penalties.

Neither the government nor the courts have provided definitive guidance on the application of fraud and abuse laws to our business. Law enforcement authorities are increasingly focused on enforcing these laws. Although we seek to structure our business arrangements in compliance with all applicable requirements, these laws are broadly written, and it is often difficult to determine precisely how the law will be applied in specific circumstances. Accordingly, it is possible that, once we begin marketing our product(s) some of our practices may be challenged under these laws. While we intend to structure our business arrangements to comply with these laws, it is possible that the government could allege violations of, or convict us of violating, these laws. Violation of any of the laws described above or any other governmental laws and regulations

may result in penalties, including civil and criminal penalties, damages, fines, the curtailment or restructuring of operations, the exclusion from participation in federal and state healthcare programs and imprisonment. Furthermore, efforts to ensure that business activities and business arrangements comply with applicable healthcare laws and regulations can be costly for manufacturers of branded prescription products. Additionally, if we are found in violation of one or more of these laws our business, results of operations and financial condition may be adversely affected.

Our current cash projections include reliance on the ability to obtain certain tax credits and the operation of certain tax regimes with in the United Kingdom. Should these cease to be available, this could impact our ongoing requirement for investment and the timeframes within which additional investment is required.

As a company that carries out extensive research and development activities, we benefit from the U.K. research and development tax credit regime for small and medium sized companies, whereby our principal research subsidiary company, Adaptimmune Limited, is able to surrender the trading losses that arise from its research and development activities for a payable tax credit of up to approximately 33.4% of eligible research and development expenditures. Qualifying expenditures largely comprise employment costs for research staff, consumables and certain internal overhead costs incurred as part of research projects. Subcontracted research expenditures are eligible for a cash rebate of up to approximately 21.7%. The majority of our pipeline research, clinical trials management and manufacturing development activities, all of which are being carried out by Adaptimmune Limited, are eligible for inclusion within these tax credit cash rebate claims.

We may not be able to continue to claim research and development tax credits (R&D tax credits) in the future as we increase our personnel and expand our business because we may no longer qualify as an SME (small or medium-sized enterprise). In order to qualify as an SME for R&D tax credits, we must continue to be a company with fewer than 500 employees and also have either an annual turnover not exceeding  $\epsilon$ 100 million or a balance sheet not exceeding  $\epsilon$ 86 million.

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We may also benefit in the future from the United Kingdom's "patent box" regime, which would allow certain profits attributable to revenues from patented products to be taxed at a rate that over time will be reduced to 10%. As we have many different patents covering our products, future upfront fees, milestone fees, product revenues, and royalties could be taxed at this favorably low tax rate. When taken in combination with the enhanced relief available on our research and development expenditures, we expect a long-term lower rate of corporation tax to apply to us. If, however, there are unexpected adverse changes to the United Kingdom research and development tax credit regime or the "patent box" regime, or we are unable to qualify for such advantageous tax legislation, our business, results of operations and financial condition may be adversely affected.

#### Risks Related to the Commercialization of Our SPEAR T-cells

#### The market opportunities for our SPEAR T-cells may be limited to those patients who have failed prior treatments.

Initial approval of new cancer therapies may be limited to what is referred to as third-line use. Third-line treatment is the third type of treatment following initial, or first-line, treatment and second-line treatment, which is given when first-line treatment does not work or ceases working. However, cancer therapies may be used from the point at which cancer is detected in its early stages (first line) onward. Whenever the first-line therapy fails or the process is unsuccessful, second-line therapy may be administered, such as additional rounds of chemotherapy, radiation and antibody drugs or a combination of these treatments. If second-line therapies fail, patients are generally given the opportunity to receive third-line therapies, which tend to be more novel therapies. Our current clinical trials generally require that patients have received chemotherapy prior to enrollment. Depending upon the outcome of our current trials, we may conduct future clinical trials using our SPEAR T-cells off first-line therapy, but there can be no guarantee that clinical trials will be approved or that if approved such trials will lead to regulatory approval. If our SPEAR T-cells only receive third-line or second-line approval, the patient population to which we can supply our SPEAR T-cells will be significantly reduced, which may limit our commercial opportunities.

Our estimates of the patient population that may be treated by our SPEAR T-cells is based on published information. This information may not be accurate in relation to our SPEAR T-cells and our estimates of potential patient populations could therefore be much higher than those that are actually available or possible for commercialization.

In addition, these estimates are based on assumptions about the number of eligible patients which have the peptide and HLA type targeted by our SPEAR T-cells. Different patient populations will present different peptides according to their specific HLA type. HLA types vary across the patient population and, due to this variability, any therapy will initially only be suitable for treatment of patients expressing the particular HLA type presenting the relevant peptide. Our current SPEAR T-cells have been developed for patients who are HLA A2 which will reduce the size of the patient population that can be treated unless we develop and receive regulatory approval for SPEAR T-cells approved for additional HLA peptides.

We currently have no marketing and sales organization and have no experience in marketing products. If we are unable to establish marketing and sales capabilities or enter into agreements with third parties to market and sell our SPEAR T-cells, we may not be able to generate product revenue.

As an organization, we have never marketed or supplied commercial pharmaceutical or biologic products or therapies. We do not currently have a sales force and will need to grow and develop the sales function and associated support network if we are to supply SPEAR T-cells on a commercial basis. As our SPEAR T-cells proceed through clinical programs, we intend to develop an in-house marketing organization and sales force, which will require significant capital expenditures, management resources, and time. We will have to compete with other pharmaceutical and biotechnology companies to recruit, hire, train, and retain marketing and sales personnel. This process may result in additional delays in bringing our TCR product candidate to market or in certain cases require us to enter into alliances with third parties in order to do so. However, there can be no assurance that we will be able to establish or maintain such collaborative arrangements, or even if we are able to do so, that they will result in effective sales forces. Any revenue we receive will depend upon the efforts of such third parties, which may not be successful. We may have little or no control over the marketing and sales efforts of such third parties, and our revenue from SPEAR T-cell sales may be lower than if we had commercialized our SPEAR T-cells ourselves. We also face significant competition in our search for third parties to assist us with the sales and marketing efforts of our SPEAR T-cells. Such competition may also result in delay or inability to supply SPEAR T-cells to particular countries or territories in the world which in turn will restrict the revenue that can be obtained from any SPEAR T-cell. Any inability on our part to develop in-house sales and commercial distribution capabilities or to establish and maintain relationships with third-party collaborators that can successfully commercialize any SPEAR T-cell in the United States or elsewhere will have a materially adverse effect on our business and results of operations.

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If product liability lawsuits are brought against us, we may incur substantial liabilities and may be required to limit commercialization of our SPEAR T-cells.

We face an inherent risk of product liability as a result of the clinical testing of our SPEAR T-cells and will face an even greater risk upon any commercialization. For example, we may be sued if any of our SPEAR T-cells causes or is perceived to cause injury or is found to be otherwise unsuitable during clinical testing, manufacturing, marketing or sale. Any such product liability claims may include allegations of defects in manufacturing, defects in design, a failure to warn of dangers inherent in the product, negligence, strict liability or a breach of warranties. Claims could also be asserted under state consumer protection acts. If we cannot successfully defend ourselves against product liability claims, we may incur substantial liabilities or be required to limit commercialization of our SPEAR T-cell. Even a successful defense would require significant financial and management resources and, regardless of the merits or eventual outcome, liability claims may result in:

- · decreased demand for our SPEAR T-cells;
- injury to our reputation;
- · withdrawal of clinical trial participants;
- initiation of investigations by regulators;
- costs to defend the related litigation;
- · a diversion of management's time and our resources;
- · substantial monetary awards to trial participants or patients;
- · product recalls, withdrawals or labeling, marketing or promotional restrictions;
- loss of revenue;
- · exhaustion of any available insurance and our capital resources;
- · the inability to commercialize SPEAR T-cells; and
- a decline in our share price.

Our inability to obtain sufficient product liability insurance at an acceptable price to protect against potential product liability claims could also prevent or inhibit the commercialization of our SPEAR T-cells. We currently hold £15.0 million in clinical trial insurance coverage in the aggregate per year, with a per trial limit of £3-4.0 million. We also hold products and services liability insurance capped at £3.0 million in the aggregate and public liability insurance capped at £3.0 million per occurrence. These levels may not be adequate to cover all liabilities that we may incur. We may also need to increase our insurance coverage as we expand the scope of our clinical trials and commercialize any of our product SPEAR T-cells. In addition, insurance coverage is increasingly expensive. We may not be able to maintain insurance coverage at a reasonable cost or in an amount adequate to satisfy any liability that may arise.

Even if we obtain regulatory approval of our SPEAR T-cells, they may not gain market acceptance among physicians, patients, hospitals, cancer treatment centers and others in the medical community.

The use of engineered T cells as a potential cancer treatment is a recent development and may not become broadly accepted by physicians, patients, hospitals, cancer treatment centers and others in the medical community. Additional factors will influence whether our SPEAR T-cells are accepted in the market, including:

- the clinical indications for which our SPEAR T-cells are approved;
- physicians, hospitals, cancer treatment centers and patients considering our SPEAR T-cells as a safe and effective treatment;
- the potential and perceived advantages of our SPEAR T-cells over alternative treatments;
- · the prevalence and severity of any side effects;
- · product labeling or prescribing information requirements of the FDA or other regulatory authorities;

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- · limitations or warnings contained in the labeling approved by the FDA;
- the timing of market introduction of our SPEAR T-cells as well as competitive products;
- · the cost of treatment in relation to alternative treatments;
- the availability of coverage, adequate reimbursement and pricing by third-party payors and government authorities;
- the willingness of patients to pay for our SPEAR T-cell on an out-of-pocket basis in the absence of coverage by third-party payors and government authorities;
- relative convenience and ease of administration as compared to alternative treatments and competitive therapies; and
- the effectiveness of our sales and marketing efforts.

In addition, although we are not utilizing embryonic stem cells or replication competent vectors, adverse publicity due to the ethical and social controversies surrounding the therapeutic use of such technologies, and reported side effects from any clinical trials using these technologies or the failure of such trials to demonstrate that these therapies are safe and effective may limit market acceptance of our SPEAR T-cells. If our SPEAR T-cells are approved but fail to achieve market acceptance among physicians, patients, hospitals, cancer treatment centers or others in the medical community, we will not be able to generate significant revenue.

Even if our SPEAR T-cells achieve market acceptance, we may not be able to maintain that market acceptance over time if new products or technologies are introduced that are more favorably received than our SPEAR T-cells, are more cost effective or render our SPEAR T-cells obsolete.

Coverage and reimbursement may be limited or unavailable in certain market segments for our SPEAR T-cells, which could make it difficult for us to sell our SPEAR T-cells profitably.

Successful sales of our SPEAR T-cells, if approved, depend on the availability of coverage and adequate reimbursement from third-party payors. In addition, because our SPEAR T-cells represent new approaches to the treatment of cancer, we cannot accurately estimate the potential revenue from our SPEAR T-cells.

Patients who are provided medical treatment for their conditions generally rely on third-party payors to reimburse all or part of the costs associated with their treatment. Obtaining coverage and adequate reimbursement from governmental healthcare programs, such as Medicare and Medicaid, and commercial payors is critical to new product acceptance.

Government authorities and third-party payors, such as private health insurers and health maintenance organizations, decide which drugs and treatments they will cover and the amount of reimbursement. Reimbursement by a third-party payor may depend upon a number of factors, including, but not limited to, the third-party payor's determination that use of a product is:

- · a covered benefit under its health plan;
- · safe, effective and medically necessary;
- appropriate for the specific patient;
- · cost-effective; and
- · neither experimental nor investigational.

Obtaining coverage and reimbursement approval of a SPEAR T-cell from a government or other third-party payor is a time-consuming and costly process which could require us to provide to the payor supporting scientific, clinical and cost-effectiveness data for the use of our products. Even if we obtain coverage for a given SPEAR T-cell, the resulting reimbursement payment rates might not be adequate for us to achieve or sustain profitability or may require co-payments that patients find unacceptably high. Patients are unlikely to use our SPEAR T-cells unless coverage is provided and reimbursement is adequate to cover a significant portion of the cost of our SPEAR T-cells.

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In the United States, no uniform policy of coverage and reimbursement for products exists among third-party payors. Therefore, coverage and reimbursement for products can differ significantly from payor to payor. As a result, the coverage determination process is often a time-consuming and costly process that will require us to provide scientific and clinical support for the use of our SPEAR T-cells to each payor separately, with no assurance that coverage and adequate reimbursement will be obtained.

We intend to seek approval to market our SPEAR T-cells in both the United States and in selected jurisdictions. If we obtain approval in one or more foreign jurisdictions for our SPEAR T-cells, we will be subject to rules and regulations in those jurisdictions.

In some foreign countries, particularly those in the European Union, the pricing of biologics is subject to governmental control. In these countries, pricing negotiations with governmental authorities can take considerable time after obtaining marketing approval of a SPEAR T-cell. In addition, market acceptance and sales of our SPEAR T-cells will depend significantly on the availability of coverage and adequate reimbursement from third-party payors for our SPEAR T-cells and may be affected by existing and future health care reform measures.

Third-party payors, whether domestic or foreign, or governmental or commercial, are developing increasingly sophisticated methods of controlling healthcare costs. In both the United States and certain foreign jurisdictions, there have been a number of legislative and regulatory changes to the health care system that could impact our ability to sell our products profitably. In particular, the recently enacted U.S. Healthcare Reform Act and its implementing regulations, among other things, revised the methodology by which rebates owed by manufacturers to the state and federal government for covered outpatient drugs and certain biologics, including our SPEAR T-cells, under the Medicaid Drug Rebate Program are calculated, increased the minimum Medicaid rebates owed by most manufacturers under the Medicaid Drug Rebate program to utilization of prescriptions of individuals enrolled in Medicaid managed care organizations, subjected manufacturers to new annual fees and taxes for certain branded prescription drugs, and provided incentives to programs that increase the federal government's comparative effectiveness research.

Other legislative changes have been proposed and adopted in the United States since the Healthcare Reform Act was enacted. In August 2011, the Budget Control Act of 2011, among other things, created measures for spending reductions by Congress. A Joint Select Committee on Deficit Reduction, tasked with recommending a targeted deficit reduction of at least \$1.2 trillion for the years 2013 through 2021, was unable to reach required goals, thereby triggering the legislation's automatic reduction to several government programs.

This includes aggregate reductions of Medicare payments to providers up to two percent per fiscal year, which went into effect on April 1, 2013 and will remain in effect until 2024, unless additional congressional action is taken. In January 2013, President Obama signed into law the American Taxpayer Relief Act of 2012, or the ATRA, which, among other things, reduced Medicare payments to several providers, including hospitals, imaging centers and cancer treatment centers, and increased the statute of limitations period for the government to recover overpayments to providers from three to five years.

There have been, and likely will continue to be, legislative and regulatory proposals at the foreign, federal and state levels directed at broadening the availability of healthcare and containing or lowering the cost of healthcare. We cannot predict the initiatives that may be adopted in the future. The continuing efforts of the government, insurance companies, managed care organizations and other payors of healthcare services to contain or reduce costs of healthcare and/or impose price controls may adversely affect:

- · the demand for our SPEAR T-cells, if we obtain regulatory approval;
- · our ability to set a price that we believe is fair for our SPEAR T-cells;
- · our ability to generate revenue and achieve or maintain profitability;
- · the level of taxes that we are required to pay; and
- · the availability of capital.

Any reduction in reimbursement from Medicare or other government programs may result in a similar reduction in payments from private payors, which may adversely affect our future profitability.

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## Risks Related to Our Reliance Upon Third Parties

We rely heavily on GSK for our NY-ESO SPEAR T-cell clinical program, which may also affect other SPEAR T-cells.

by GSK to us upon achievement of specified milestones. GSK has the right to nominate three further target programs in addition to the NY-ESO SPEAR T-cell and PRAME SPEAR T-cell programs under the collaboration arrangements. We have no control over whether GSK will elect to progress additional targets under the collaboration arrangements and therefore trigger additional investment from GSK in our SPEAR T-cells. If GSK does not elect to do so, we may require additional capital or investment or need to enter into alternative strategic alliances. In addition, GSK has a right to terminate the collaboration and license agreement or any specific license under the collaboration and license agreement for any reason on provision of sixty days' notice. Termination may impact not only our requirement for additional investment or capital but also the timeframes within which current clinical programs can be performed and the development of a suitable commercial-scale manufacturing process for any of our SPEAR T-cells. In addition, GSK has an option to obtain an exclusive worldwide license to our NY-ESO SPEAR T-cell program, which is exercisable during specified time periods. If the option is exercised after delivery of required phase I/II data package, GSK will assume full responsibility for our NY-ESO SPEAR T-cell program. There is no guarantee that GSK will exercise the option over the NY-ESO SPEAR T-cell program at all or in the timescales currently anticipated and the timing of option exercise may impact the timing and amount of milestone payments received by the Company.

The current development plans or any future development plan agreed upon between GSK and us may be unsuccessful or fail to result in candidate therapies that are feasible for further development or commercialization. There is therefore no guarantee that any payments due on commercialization of products under the agreement between GSK and us will be due or payable by GSK at any time or on the timeframes currently expected. In addition, milestone payments may not be paid or may be varied where any development plan is amended or where any development plan is terminated prior to completion for lack of feasibility or lack of identification of any suitable candidates that meet the required criteria for progression to the next stage of development.

In addition, the development plans agreed upon with GSK and any future development plans will be subject to change as a result of risks inherent with the development of any pharmaceutical, biological or gene therapy product. Changes may be agreed to expand or change the scope of the collaboration or the responsibilities of the parties under the collaboration. For example, in February 2016 the agreement was expanded to accelerate the development of the NY-ESO SPEAR T-cells towards pivotal trials in synovial sarcoma and provide for additional combination trials. Changes to the development plans or collaboration agreement may impact the timing and extent of milestone payments made by GSK to us, the nature of the relationship with GSK or the scope of the collaboration with GSK.

GSK has the ability to influence or control certain decisions relating to the development of therapies covered by our collaboration and license agreement with GSK. This ability could result in delays to the clinical programs covered by the collaboration or changes to the scope of those clinical programs, including the disease indications relevant to such clinical programs. Under the agreement, we are also prohibited from independently developing or commercializing therapies directed at the targets subject to outstanding options granted to GSK. In addition, GSK may have competing internal or commercial interests including its independent collaboration with Immunocore any of which could impact our collaboration or the ability of GSK to take any clinical programs forward to the next stage following the exercise of their option.

GSK and Novartis have publicly announced that Novartis has opt-in rights over GSK's current and future oncology research and development pipeline. As part of that announced transaction, GSK has sold the rights to GSK's marketed oncology portfolio, related R&D activities and the AKT Inhibitors currently in development. GSK has also agreed to grant Novartis preferred partner rights for co-development and commercialization of GSK's current and future oncology pipeline products for a period of 12.5 years from completion of the applicable transactions between GSK and Novartis. The relevant agreement grants Novartis a right of first negotiation over the co-development or commercialization of any GSK "Relevant Development Product" in a major market. A "Relevant Development Product" as defined in the public announcement is a product in development for the treatment, palliation, diagnosis or prevention of all cancers, including immunology, epigenetics and treatment of solid or hematologic tumors (excluding in all cases, vaccines). The right of first negotiation also lasts for 12.5 years from completion of the applicable transactions between GSK and Novartis and according to the public announcement applies where GSK decides to seek a third party partner for co-development or commercialization of, or to whom to divest rights to, a Relevant Development Product in a global or major market or where GSK proposes to seek a marketing authorization for a Relevant Development Product in a major market.

The existence of these opt-in rights could impact GSK's decision whether to exercise any option under our collaboration or the ability of GSK to take any clinical programs forward to the next stage, following the exercise of its option.

The relationship with GSK could also result in disputes arising between us and GSK which could result in costly arbitration or litigation and could impact the ongoing clinical programs or progress of such clinical programs. All intellectual property rights arising from the performance of the collaboration and license agreement will be jointly owned apart from intellectual property rights that we solely create. Both GSK and we have freedom to use jointly owned intellectual property rights.

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The GSK collaboration programs relate to specific SPEAR T-cells directed to nominated targets. Should any of these programs not be successful or resulting clinical programs show a lack of efficacy or problems with safety, tolerability or durability of response, GSK may decide not to proceed further with such collaboration programs and our ability to obtain other partners for further development of such candidates or of new SPEAR T-cells could be significantly compromised.

## We rely heavily on ThermoFisher and the technology that we license from them.

The ability to use the ThermoFisher Dynabeads® CD3/CD28 technology to isolate, activate and expand T cells is important to our ongoing ability to offer SPEAR T-cells. In December 2012, we entered into a series of license and sub-license agreements with Life Technologies Corporation (now part of ThermoFisher). These agreements provide us with a field-based exclusive license under certain intellectual property rights owned or controlled by ThermoFisher in relation to the methods of use of the ThermoFisher Dynabeads® CD3/CD28 technology to isolate, activate and expand T-cells and enable transfection of the T-cells with any TCR genes to manufacture our TCR products and use and sell those TCR products to treat cancer, infectious disease and/or autoimmune disease. We also have a field-based exclusive sub-license under certain other patents which cover the method of use of the Dynabeads® CD3/CD28 and are controlled by ThermoFisher under a head-license from the University of Michigan, the United States Navy and the Dana-Farber Cancer Institute.

In June 2016, we entered into a supply agreement with ThermoFisher for the supply of the Dynabeads® CD3/CD28 technology. The supply agreement runs until December 31, 2025. Under the supply agreement we are required to purchase our requirements for CD3/CD28 magnetic bead product exclusively from ThermoFisher for a period of five years and there are also minimum purchasing obligations. Despite having negotiated this supply agreement there is no certainty that ThermoFisher will be able to continue to supply the Dynabeads® CD3/CD28 technology at the times or at the levels we require or that facilities used by ThermoFisher for the manufacture and supply of the Dynabeads® CD3/CD28 technology will continue to be available to us which could impact the timing of supply of SPEAR T-cells or ability to manufacture SPEAR T-cells

ThermoFisher has the right to terminate the above described agreements for material breach or insolvency. On termination of the license agreements, the supply agreement will also automatically terminate. If ThermoFisher terminates the exclusive license, sub-license and supply agreements or otherwise refuses or is unable to supply the Dynabeads® product, we will have to seek an alternative source of the beads or develop an alternative process methodology to enable supply of our SPEAR T-cells.

If the supply agreements with ThermoFisher is terminated or ThermoFisher is unable to supply the Dynabeads® CD3/CD28 technology for any reason, an alternative source may be difficult to find or more expensive, which may delay timeframes either for clinical programs or ultimately commercial supply of our SPEAR T-cells. A requirement to identify an alternative source may also require a change in our regulatory application or additional regulatory testing to ensure that any alternative source is comparable and does not present any additional risk which could also result in our program experiencing delays and increased costs.

The sub-license agreement, in addition to having the same relevant exclusivity scope and field-based restrictions and many of the terms being equivalent to those set out in the main license agreement with ThermoFisher, also includes additional requirements that any manufacture of engineered TCR products for sale in the United States

must occur in the United States and reserves rights for the United States government to use the technology in accordance with 35 U.S.C. § 200 et seq. and for the University of Michigan and Dana-Farber Cancer Institute to use the technology for non-commercial research purposes.

We rely on third parties to manufacture and supply our SPEAR T-cells, and we may have to rely on third parties to produce and process our SPEAR T-cells, if approved.

We currently rely on outside contract manufacturing organizations ("CMOs") to manufacture, supply and process our SPEAR T-cells. If one or more of these CMOs become unable or unwilling to continue to manufacture our engineered SPEAR T-cells (including any raw or intermediate material required for the manufacture of our end engineered SPEAR T-cell therapy) in the future, we may be forced to find an alternative third-party manufacturer, which we may not be able to do on commercially reasonable terms, if at all. Failure to identify a suitable alternative manufacturer could impact our business, financial condition or results of operations.

We rely on a limited number of third-party manufacturers for clinical trial product supplies, and if we are unable to develop our own commercial manufacturing facility for any commercial product supplies, we will be exposed to the following risks:

- We may be unable to contract with manufacturers on commercially acceptable terms or at all because the number of potential manufacturers is limited and the FDA, EMA and other comparable foreign regulators must approve any replacement manufacturer, which would require new testing and compliance inspections. In addition, a new manufacturer would have to be educated in, and develop substantially equivalent processes for, production of our SPEAR T-cells after receipt of any applicable regulatory approval.
- We may not be able to obtain lentiviral delivery manufacturing slots with third party contract manufacturers within the timescales we require for supply of lentiviral delivery vector or to obtain agreed dates for such manufacturing slots sufficiently in advance of the requirement for supply.

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- Our third-party manufacturers might be unable to timely formulate and manufacture our SPEAR T-cells or produce the quantity and quality required to meet our clinical trial and commercial needs, if any.
- · Contract manufacturers may not be able to execute our manufacturing procedures appropriately, or we may be unable to transfer our manufacturing processes to contract manufacturers successfully or without additional time and cost.
- Our future contract manufacturers may not perform as agreed, may be acquired by competitors or may not remain in the contract manufacturing business for the time required to supply our clinical trials or to successfully produce, store and distribute our SPEAR T-cells. In addition contract manufacturers may not manufacture within agreed timescales for manufacture and/or may cancel pre-agreed manufacturing slots, which would result in delays in manufacturing and could require us to find replacement manufacturers which may not be available to us on favorable terms or at all.
- Manufacturers are subject to ongoing periodic unannounced inspection by the FDA, EMA, and other comparable foreign regulators and corresponding state
  agencies to ensure strict compliance with cGMP and other government regulations and corresponding foreign standards. Although we do not have day-to-day
  control over third-party manufacturers' compliance with these regulations and standards, we are responsible for ensuring compliance with such regulations and
  standards
- · We may not own, or may have to share, the intellectual property rights to any improvements made by our third-party manufacturers in the manufacturing process for our SPEAR T-cells.
- · Our third-party manufacturers could breach or terminate their agreement with us
- · Our third-party manufacturers may cease to be able to do business with us (whether for insolvency or other reasons, including takeover, merger or acquisition) at a time when we are unable to source such manufacture elsewhere or at our own manufacturing facility.

Certain raw materials or precursor materials used in the manufacture and supply of our SPEAR T-cells may come from sole source or limited source suppliers. For example, there are currently a limited number of third party manufacturers within the United States that can supply us with our lentiviral delivery vector, ThermoFisher is currently the only supplier of the Dynabeads® CD3/CD28 technology and PCT, LLC is currently the only manufacturer of our end SPEAR T-cell therapy. Should such suppliers be unable to supply or manufacture such raw materials or precursor materials either at all or within required timescales we may be unable to supply our SPEAR T-cells or such supply may be significantly delayed. Inability to obtain such raw materials or precursor materials may also necessitate changes in the manufacturing process used for supply of our SPEAR T-cells. Such changes to the manufacturing process may need to be developed internally or by a third party and may also require additional regulatory approvals to be obtained before they can be used for the manufacture and supply of our SPEAR T-cells for clinical trials.

Our contract manufacturers are also subject to the same risks we face in developing our own manufacturing capabilities, as described above. Each of these risks could delay our clinical trials, the approval, if any, of our SPEAR T-cells by the FDA or the commercialization of our SPEAR T-cells or result in higher costs or deprive us of potential product revenue. We have insurance to cover certain costs and expenses related to business interruption, which is capped at £3.0 million in the aggregate.

In addition, we will rely on third parties to perform release tests on our SPEAR T-cells prior to delivery to patients. If these tests are not appropriately performed and test data is not reliable, patients could be put at risk of serious harm.

We have a shared development history with Immunocore, and as a result jointly-own certain intellectual property rights which are required for our ongoing business.

Our TCR technology was originally developed by Avidex, which was subsequently acquired by Medigene in 2006. We were formed as a new, separate company and licensed our TCR technology for T-cell therapy from Medigene in July 2008. Immunocore was subsequently formed as a new separate company and acquired the TCR technology for soluble TCRs from Medigene later in 2008 to develop soluble TCR proteins. Immunocore owns ordinary shares in Adaptimmune. Certain of our shareholders also hold shares in Immunocore. Our scientific founder and advisor, Bent Jakobsen, is also an employee of Immunocore.

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Both Adaptimmune and Immunocore focus on technologies that are based on TCR therapies. Each company focuses on distinct applications of, and utilizes different, TCRs. Immunocore uses soluble TCRs whereas Adaptimmune uses cellular SPEAR T-cells. Both soluble TCRs and Adaptimmune's SPEAR T-cells rely on the engineering of TCRs to create affinity-enhanced TCRs. In Adaptimmune's case, once the engineered affinity-enhanced TCR has been generated, the gene encoding that engineered TCR is transduced into patient T cells. With soluble TCRs, there is no transduction. For soluble TCRs, the engineered affinity-enhanced TCRs are combined with an antibody fragment, anti-CD3, and it is this combined TCR/anti- CD3 candidate that is then used to treat patients directly. The combined candidates are called ImmTACs. As a result, the end therapeutic candidates being developed by each company are different in terms of end structure, affinity, require different manufacturing and administration routes and are likely to have different properties in patients. For example, ImmTACs do not persist beyond a few hours in a patient following administration, whereas Adaptimmune's

TCR therapeutics have been shown to persist in patients for years; ImmTACs are likely to require higher amounts of target peptide to be present and hence Adaptimmune's TCR therapeutics may address cancer cells with lower levels of antigen; ImmTACs rely on activating the patient's existing T cells through an anti-CD3-CD3 interaction, whereas Adaptimmune's SPEAR T-cells activate T cells through direct binding to the target peptide and this results in a different mechanism of action.

Notwithstanding the differences between Immunocore's and Adaptimmune's end products, both companies may develop products or therapies that target the same peptide and are directly competitive and/or address the same indications and patient populations. For example, both companies could develop therapeutic candidates to the same peptide target and hence have a product addressing the same patient populations in the same way as any other competing technology. In addition, both Immunocore and Adaptimmune have entered into collaboration agreements with GSK, which could decide over time to devote greater time and resources to Immunocore at the expense of Adaptimmune.

Under the terms of a target collaboration agreement which terminated as of March 1, 2017, we will continue to share a database of identified targets with Immunocore which resulted from the joint target identification efforts under that agreement. The contents of this target database are highly confidential and if disclosed to a third party, either as a result of a breach of the confidentiality terms between us and Immunocore or through a change of control in Immunocore, our business could be adversely impacted.

In addition, many of the patents relating to our underlying core technology in TCR engineering, are co-owned by us and Immunocore pursuant to a separate assignment and license agreement. Under this agreement, each of Immunocore and Adaptimmune utilize the jointly owned patents and know-how, with Adaptimmune focused on the treatment of patients with engineered SPEAR T-cells and Immunocore focused on the treatment of patients with soluble TCRs. Under the agreement, each of Immunocore and Adaptimmune grants the other an exclusive, royalty-free, irrevocable license, with the right to sub-license, to certain jointly owned patents and know-how. However, there is the potential that Immunocore could develop a soluble TCR product targeting the same cancer target that one of our SPEAR T-cells is targeting, and therefore compete directly with us.

We rely on third parties to conduct our clinical trials. If these third parties do not successfully carry out their contractual duties or meet expected deadlines, we may not be able to obtain regulatory approval of or commercialize our SPEAR T-cells.

We depend upon independent investigators and collaborators, such as universities, medical institutions, CROs and strategic partners to conduct our preclinical programs and sponsored clinical trials under agreements with us. We expect to have to negotiate budgets and contracts with CROs and trial sites (either directly or through a third party consultant), which may result in delays to our development timelines and increased costs. We rely heavily on these third parties over the course of our clinical trials, and we do not have day-to-day control of their activities. Nevertheless, we are responsible for ensuring that each of our trials is conducted in accordance with applicable protocols and legal, regulatory and scientific standards, and our reliance on third parties does not relieve us of our regulatory responsibilities. We and these third parties are required to comply with cGCPs, which are regulations and guidelines enforced by the FDA and comparable foreign regulatory authorities for SPEAR T-cells in clinical development. Regulatory authorities enforce these cGCPs through periodic inspections of trial sponsors, principal investigators and trial sites. If we or any of these third parties fail to comply with applicable cGCP regulations and guidelines, the clinical data generated in our clinical trials may be deemed unreliable and the FDA or comparable foreign regulatory authorities may require us to perform additional clinical trials before approving our marketing applications. We cannot provide assurances that, upon inspection, such regulatory authorities will determine that any of our clinical trials comply with the cGCP regulations. In addition, our clinical trials must be conducted with biologic product produced under cGMPs and will require a large number of subjects. Our failure or any failure by these third parties to comply with these regulations or to support BLA for approval of our NY-ESO SPEAR T-cell for the treatment of a sufficient number of patients may require us to repeat clinical trials, which

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Any third parties conducting our clinical trials are not and will not be our employees and, except for remedies available to us under our agreements with such third parties which could be limited, we cannot control whether or not they devote sufficient time and resources to our ongoing clinical trials and preclinical programs. These third parties may also have relationships with other commercial entities, including our competitors, for whom they may also be conducting clinical trials or other drug or biologic development activities, which could affect their performance on our behalf. If these third parties do not successfully carry out their contractual duties or obligations or meet expected deadlines, if they need to be replaced or if the quality or accuracy of the clinical data they obtain is compromised due to the failure to adhere to our clinical protocols or regulatory requirements or for other reasons, our clinical trials may be extended, delayed or terminated and we may not be able to complete development of, obtain regulatory approval of, or successfully commercialize our SPEAR T-cells. As a result, our financial results and the commercial prospects for our SPEAR T-cells would be harmed, our costs could increase and our ability to generate revenue could be delayed.

Switching or adding third parties to conduct our clinical trials involves substantial cost and requires extensive management time and focus. In addition, there is a natural transition period when a new third party commences work. As a result, delays may occur, which can materially impact our ability to meet our timelines for bringing our SPEAR T-cells to market, if at all.

In addition to our Company sponsored clinical programs, our NY-ESO TCR therapeutic has also been used in an investigator-initiated clinical program funded by the European Union, referred to as the ATTACK 2 program. The therapy, which was produced under a different manufacturing process than Adaptimmune's NY-ESO TCR therapy and was administered under a different protocol, was being evaluated for the treatment of patients with advanced gastro-esophageal cancer for the first time. To date, two patients have been treated under this protocol, one of whom passed away 46 days after initial treatment. Said patient experienced enterocolitis and bone marrow failure followed by fatal gangrenous gastrointestinal necrosis and hemorrhage. The investigator determined there was a reasonable possibility that these events were caused by study treatment. Enrollment in the trial was temporarily paused pending investigation of the patient fatality but an independent data monitoring committee has since recommended that recruitment can resume. An amendment to the protocol is currently being considered prior to restarting enrollment in the trial. However, the European Union has terminated funding of the trial due to the delays in trial progression and the Company is in discussions with the sponsor, the Christie NHS Foundation Trust, in relation to continuation of the trial. There is no guarantee we will reach agreement with the Christie NHS Foundation Trust to continue with the esophageal trial at all or on a timely basis.

## We rely on third parties to obtain reagents and raw materials.

The manufacture of our SPEAR T-cells requires access to a number of reagents and other raw materials from third parties. Such third parties may refuse to supply such reagents or other raw materials or alternatively refuse to supply on commercially reasonable terms. There may also be capacity issues at such third-party suppliers that impact our ability to increase production of our SPEAR T-cells.

Some of the materials used in the manufacture and processing of our SPEAR T-cells may only be supplied by one or a few vendors, which means that, should those vendors be unable to supply, for whatever reason, our ability to manufacture SPEAR T-cells and progress SPEAR T-cells through clinical trials could be severely impacted and result in additional delays. Such failure to supply could also impact other supply relationships with other third parties and potentially result in additional payments being made or required in relation to such delays. In addition, where any raw material or precursor material (including, for example, lentiviral delivery vector, medium or other essential raw material) is currently supplied by one or a few vendors, replacing such raw material or precursor or finding alternative vendors may not be possible or may significantly impact on the timescales for manufacture and supply of our SPEAR T-cells. Even where alternative materials or precursors or alternative vendors are identified, such alternative materials, precursors or vendors will need to be properly assessed, validated and qualified and additional regulatory approvals may also need to be obtained all of which could result in significant delays to the supply of our SPEAR T-cells or an inability to supply SPEAR T-cells within anticipated timescales, if at all.

#### Our SPEAR T-cells could be at risk of biosimilar development.

Expedited routes or abbreviated procedures for obtaining regulatory approval for products aiming to target the same cancer peptide as our SPEAR T-cells may be available to third parties, which we cannot control or prevent. For example, third parties could develop affinity-enhanced TCRs binding to the same targets and regulatory authorities may accept that they are interchangeable with our corresponding SPEAR T-cells and, as a result, grant regulatory approval for such competing products. Entry into the market of such competing products may impact the price of our SPEAR T-cells and the extent of commercialization possible in relation to such SPEAR T-cells.

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#### We may be forced to litigate to enforce or defend our intellectual property rights, and/or the intellectual property rights of our licensors.

We may be forced to litigate to enforce or defend our intellectual property rights against infringement and unauthorized use by competitors, and to protect our trade secrets. In so doing, we may place our intellectual property at risk of being invalidated, held unenforceable, narrowed in scope or otherwise limited. Further, an adverse result in any litigation or defense proceedings may increase the risk of non-issuance of pending applications. In addition, if any licensor fails to enforce or defend its intellectual property rights, this may adversely affect our ability to develop and commercialize our SPEAR T-cells and to prevent competitors from making, using, and selling competing products. Any such litigation could be very costly and could distract our management from focusing on operating our business. The existence and/or outcome of any such litigation could harm our business, results of operations and financial condition.

Furthermore, because of the substantial amount of discovery required in connection with intellectual property litigation, there is a risk that some of our confidential and proprietary information could be compromised by disclosure during this type of litigation. In addition, there could be public announcements of the results of hearings, motions or other interim proceedings or developments. If securities analysts or investors perceive these results to be negative, it could have a substantial adverse effect on the price of our ADSs.

## We may not be able to protect our proprietary technology in the marketplace or the cost of doing so may be prohibitive or excessive.

Our success will depend, in part, on our ability to obtain patents, protect our trade secrets and operate without infringing on the proprietary rights of others. We rely upon a combination of patents, trade secret protection (i.e., know-how), and confidentiality agreements to protect the intellectual property of our SPEAR T-cells. The scope and validity of patents in the pharmaceutical field involve complex legal and scientific questions and can be uncertain. Where appropriate, we seek patent protection for certain aspects of our SPEAR T-cells and technology. Filing, prosecuting and defending patents throughout the world would be prohibitively expensive, so our policy is to patent technology in jurisdictions with significant commercial opportunities. However, patent protection may not be available for some of the SPEAR T-cells or technology we are developing. If we must spend significant time and money protecting or enforcing our patents, designing around patents held by others or licensing, potentially for large fees, patents or other proprietary rights held by others, our business results of operations and financial condition may be harmed. We may not develop additional proprietary products that are patentable.

Many companies have encountered significant problems in protecting and enforcing intellectual property rights in foreign jurisdictions. The legal systems of certain countries, particularly certain developing countries, do not favor the enforcement of patents and other intellectual property rights, particularly those relating to pharmaceuticals, which could make it difficult for us to stop the infringement of our patents or marketing of competing products in violation of our proprietary rights generally. Proceedings to enforce our patent rights in foreign jurisdictions could result in substantial cost and divert our efforts and attention from other aspects of our business.

In addition, patents have a limited lifespan. In most countries, including the United States, the standard expiration of a patent is 20 years from the effective filing date. Various extensions of patent term may be available in particular countries; however, in all circumstances the life of a patent, and the protection it affords, has a limited term. If we encounter delays in obtaining regulatory approvals, the period of time during which we could market a product under patent protection could be reduced. We expect to seek extensions of patent terms where these are available in any countries where we are prosecuting patents. Such possible extensions include those permitted under the Drug Price Competition and Patent Term Restoration Act of 1984 in the United States, which permits a patent term extension of up to five years to cover an FDA-approved product. The actual length of the extension will depend on the amount of patent term lost while the product was in clinical trials. However, the applicable authorities, including the FDA in the United States, and any equivalent regulatory authority in other countries, may not agree with our assessment of whether such extensions are available, and may refuse to grant extensions to our patents, or may grant more limited extensions than we request. If this occurs, our competitors may be able to take advantage of our investment in development and clinical trials by referencing our clinical and non-clinical data, and then may be able to launch their product earlier than might otherwise be the case.

Any loss of, or failure to obtain, patent protection could have a material adverse impact on our business. We may be unable to prevent competitors from entering the market with products that are similar to or the same as our SPEAR T-cells.

Further given that our technology relates to the field of genetic engineering, political pressure or ethical decisions may result in a change to the scope of patent claims for which we may be eligible. Different patent offices throughout the world may adopt different procedures and guidelines in relation to what is and is not patentable and as a result different protection could be obtained in different areas of the world which may impact our ability to maximize commercialization of our technology.

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We may also incur increased expenses and cost in relation to the filing and prosecution of patent applications where third parties choose to challenge the scope or oppose the grant of any patent application or, following grant, seek to limit or invalidate any patent. On April 13, 2015, we received notification of a third party observation filed against one of the patent applications (PCT/GB2013/053320) jointly owned with Immunocore and covering one aspect of our underlying processes. The third party observation cites a reference which the third party considers to be novelty destroying in relation to claims 1-14 of our patent application. Following this observation, an examination report was issued by the patent office and we have responded to the cited observations in the examination report in full. Any increased prosecution or defense required in relation to such patents and patent applications, whether relating to this third party observation or any other third party challenge or opposition, entails increased cost and resource commitment to the business and may result in patents and patent applications being abandoned, invalidated or narrowed in scope.

## We may be unable to adequately prevent disclosure of trade secrets and other proprietary information.

We rely on trade secrets to protect our proprietary know-how and technological advances, especially where we do not believe patent protection is appropriate or obtainable. However, trade secrets are difficult to protect. We rely, in part, on confidentiality agreements with our employees, consultants, outside scientific collaborators, sponsored researchers and other advisors to protect our trade secrets and other proprietary information. These agreements may not effectively prevent disclosure of confidential information and may not provide an adequate remedy in the event of unauthorized disclosure of confidential information. In addition, others may independently discover our trade secrets and proprietary information. Costly and time-consuming litigation could be necessary to enforce and determine the scope of our proprietary rights. Failure to obtain or maintain trade secret protection, or failure to adequately protect our intellectual property, could enable competitors to develop generic products or use our proprietary information to develop other products that compete with our SPEAR T-cells or have additional, material adverse effects upon our business, results of operations

and financial condition.

In addition, we provide samples to third parties under material transfer agreements, including to research institutions or other organizations that we cannot control. There is a risk that such third parties could disclose details of those samples or carry out further research in relation to provided samples which results in intellectual property rights that block our future freedom to operate, and to which we may not be able to obtain a license on commercially acceptable terms or at all. In addition, provision of samples and our confidential information to such parties could facilitate or assist such parties in development of competing products.

## If third parties claim that our activities or products infringe upon their intellectual property, our operations could be adversely affected.

There is a substantial amount of litigation, both within and outside the United States, involving patents and other intellectual property rights in the pharmaceutical industry. We may, from time to time, be notified of claims that we are infringing upon patents, trademarks, copyrights, or other intellectual property rights owned by third parties, and we cannot provide assurances that other companies will not, in the future, pursue such infringement claims against us or any third-party proprietary technologies we have licensed. If we were found to infringe upon a patent or other intellectual property right, or if we failed to obtain or renew a license under a patent or other intellectual property right from a third party, or if a third party that we were licensing technologies from was found to infringe upon a patent or other intellectual property rights of another third party, we may be required to pay damages, including triple damages if the infringement is found to be willful, suspend the manufacture of certain SPEAR T-cells or reengineer or rebrand our SPEAR T-cells, if feasible, or we may be unable to enter certain new product markets. Any such claims could also be expensive and time-consuming to defend and divert management's attention and resources. Our competitive position could suffer as a result. In addition, if we have declined to enter into a valid non-disclosure or assignment agreement for any reason, we may not own an invention or intellectual property rights and may not be adequately protected. Although we have reviewed certain third-party patents and patent filings that we believe may be relevant to our SPEAR T-cells, we have not conducted a full freedom-to-operate search or analysis for such SPEAR T-cells, and we may not be aware of patents or pending or future patent applications that, if issued, would block us from commercializing our SPEAR T-cells. Thus, we cannot guarantee that we can successfully commercialize SPEAR T-cells in a way that will not infringe any third party's intellectual prop

## Licenses may be required from third parties in relation to any SPEAR T-cells developed or commercialized by us.

We may identify third-party intellectual property rights that are required to enable the further development, commercialization, manufacture or development of our SPEAR T-cells. Licenses to such intellectual property rights may or may not be available on commercial terms that are acceptable to us. As a result we may incur additional license fees for such intellectual property rights, or the cost and expenses to identify an alternative route for commercialization, that does not require the relevant third-party intellectual property rights, or the cost and diversion of resources required to challenge any such third party intellectual property rights.

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We have identified three third party European patent applications which relate to high affinity TCR proteins and methods. Two of these patent applications have been amended and the claims are not relevant to our SPEAR T-cell technology. The final application includes broad claims which we do not currently perceive as relevant to our business. We have previously filed third party observations in relation to these claims and have recently filed further third party observations arguing on the basis of lack of support, lack of clarity, disallowed added matter, non-entitlement to priority, and lack of inventive step. This final application was subsequently allowed with narrowed claims which are of no relevance to Adaptimmune's business.

We have also identified a family of third party patents under which we may require a license in relation to a structural component of our lentiviral vector (cPPT) prior to any commercialization of SPEAR T-cells. We believe such licenses are available and we are in discussions to procure a license or freedom to operate under the relevant patent rights.

We may also require licenses under third-party patents covering certain peptide sequences or the use of those peptides. Such licenses will require payment of sums by us and we cannot guarantee that the terms of such licenses will be available on commercially acceptable terms or at all, which could limit the peptides which can be used by us and the efficacy of the final affinity- enhanced TCRs that we are able to offer.

As we change, develop and modify our manufacturing processes we may identify further third-party patents covering those developments and modifications. We cannot guarantee that we will be able to obtain licenses under these third-party patents or other intellectual property rights and as a result we may not be able to undertake the developments of modifications that we wish, either at all or in the timescales we require. This could ultimately impact our ability to deliver commercial T-cell products at the cost required.

Further or other third-party patents and patent applications may be identified from time to time that require prospective action by us to prevent the grant of broad claims. Such prospective action requires time and expense and also impacts on the resources generally available to us.

Where we license certain technology from a third party, the prosecution, maintenance and defense of the patent rights licensed from such third party may be controlled by the third party which may impact the scope of patent protection which will be obtained or enforced.

Where we license patent rights or technology from a third-party, control of such third party patent rights may vest in the licensor, particularly where the license is non-exclusive or field restricted. This may mean that we are not able to control or affect the scope of the claims of any relevant third-party patent or have control over any enforcement of such a patent. Where a licensor brings an enforcement action, this could negatively impact our business or result in additional restrictions being imposed on the license we have and the scope of such license, or result in invalidation or limitation of the scope of the licensed patent. In addition, should we wish to enforce the relevant patent rights against a third person, we may be reliant on consent from the relevant licensor or the cooperation of the licensor. The licensor may refuse to bring such action and leave us unable to restrict competitor entry into the market.

## Issued patents protecting our SPEAR T-cells could be found invalid or unenforceable if challenged in court or at the USPTO.

If we or one of our licensing partners initiate legal proceedings against a third party to enforce a patent protecting one of our SPEAR T-cells, the defendant could counterclaim that the patent protecting our SPEAR T-cell, as applicable, is invalid and/or unenforceable. In patent litigation in the United States, defendant counterclaims alleging invalidity and/or unenforceability are commonplace, and there are numerous grounds upon which a third party can assert invalidity or unenforceability of a patent. Third parties may also raise similar claims before administrative bodies in the United States or abroad, even outside the context of litigation. Such mechanisms include re-examination, post grant review, and equivalent proceedings in foreign jurisdictions (e.g., opposition proceedings). Such proceedings could result in revocation or amendment to our patents in such a way that they no longer cover our SPEAR T-cells. The outcome following legal assertions of invalidity and unenforceability is unpredictable. With respect to the validity question, for example, we cannot be certain that there is no invalidating prior art, of which we, our patent counsel and the patent examiner were unaware during prosecution. If a defendant were to prevail on a legal assertion of invalidity and/or unenforceability, we would lose at least part, and perhaps all, of the patent protection for our SPEAR T-cells. Such a loss of patent protection could have a material adverse impact our business, financial condition and results of operations.

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As is the case with other biopharmaceutical companies, our success is heavily dependent on intellectual property, particularly patents. Obtaining and enforcing patents in the biopharmaceutical industry involve both technological and legal complexity, and is therefore costly, time-consuming and inherently uncertain. In addition, the United States has recently enacted and is currently implementing wide-ranging patent reform legislation. Recent U.S. Supreme Court rulings have narrowed the scope of patent protection available in certain circumstances and weakened the rights of patent owners in certain situations. In addition to increasing uncertainty with regard to our ability to obtain patents in the future, this combination of events has created uncertainty with respect to the value of patents, once obtained. Depending on decisions by the U.S. Congress, the federal courts, and the USPTO, the laws and regulations governing patents could change in unpredictable ways that would weaken our ability to obtain new patents or to enforce our existing patents and patents that we might obtain in the future. For example, in the recent case, Assoc. for Molecular Pathology v. Myriad Genetics, Inc., the U.S. Supreme Court held that certain claims to DNA molecules are not patentable. While we do not believe that any of the patents owned or licensed by us will be found invalid based on this decision, we cannot predict how future decisions by the courts, the U.S. Congress or the USPTO may impact the value of our patents.

Our ability to protect our intellectual property rights in territories outside of the United States may vary and thus affect our ability to obtain revenue from our SPEAR T-cells.

Filing, prosecuting and defending patents on our SPEAR T-cells in all countries throughout the world would be prohibitively expensive, and the extent of intellectual property rights may be less extensive than those which can be obtained in the United States. Consequently, we may not be able to prevent third parties from practicing our inventions in all countries outside the United States, or from selling or importing products made using our inventions in and into the United States or other jurisdictions. Competitors may use our technologies in jurisdictions where we have not obtained patent protection to develop their own products and further, may export otherwise infringing products to territories where we have patent protection, but enforcement is not as strong as that in the United States. These products may compete with our products and our patents or other intellectual property rights may not be effective or sufficient to prevent them from competing.

Many companies have encountered significant problems in protecting and defending intellectual property rights in foreign jurisdictions. The legal systems of certain countries, particularly certain developing countries, do not favor the enforcement of patents, trade secrets and other intellectual property protection, particularly those relating to biopharmaceutical products, which could make it difficult for us to stop the infringement of our patents or marketing of competing products in violation of our proprietary rights generally. Proceedings to enforce our patent rights in foreign jurisdictions could result in substantial costs and divert our efforts and attention from other aspects of our business, could put our patents at risk of being invalidated or interpreted narrowly and our patent applications at risk of not issuing and could provoke third parties to assert claims against us. We may not prevail in any lawsuits that we initiate and the damages or other remedies awarded, if any, may not be commercially meaningful. Accordingly, our efforts to enforce our intellectual property rights around the world may be inadequate to obtain a significant commercial advantage from the intellectual property that we develop or license.

#### Risks Related to Employee Matters and Managing Growth

## We depend upon our key personnel and our ability to attract and retain employees.

We are heavily dependent on the ongoing employment and involvement of certain key employees in particular, James Noble, our Chief Executive Officer, Dr. Helen Tayton-Martin, our Chief Business Officer, Dr. Rafael Amado, our Chief Medical Officer, Dr. Gwendolyn Binder-Scholl, our Chief Technology Officer, and Adrian Rawcliffe, our Chief Financial Officer. We do not hold key-man insurance for our senior managers. In addition, James Noble and Dr. Helen Tayton-Martin, are in a personal relationship. They are our co-founders, two of our most senior executive officers and are a vital part of our business. If the personal relationship ended or they could otherwise not amicably work with each other, one of them may decide to leave us which would materially harm our business.

In addition, we anticipate a requirement to expand the personnel available to us very rapidly in order to achieve our planned business activities and aims. Such expansion is dependent on our ability to recruit experienced and suitably trained employees or consultants, and to retain such employees on a long term basis. Our ability to take our existing pipeline of TCR therapeutics and to meet the demands of the GSK collaboration may be compromised or delayed where we are unable to recruit sufficient personnel on a timely basis.

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To induce employees to remain at our company, in addition to salary and cash incentives, we have provided share options that vest over time, with higher awards of share options being made to senior employees. The value to employees of share options that vest over time may be significantly affected by movements in our share price that are beyond our control, and may at any time be insufficient to counteract more lucrative offers from other companies. Despite our efforts to retain valuable employees, members of our management, scientific and development teams may terminate their employment with us on short notice. Although we have employment agreements with all of our employees, in the United Kingdom, these employment agreements provide for mutual nine months' notice periods in the case of Mr. Noble and Dr. Tayton-Martin; mutual three months inotice periods in the case of senior managers and mutual one month notice periods for all other employees. In the United States, the employment agreements provide for at-will employment except that, under their employment agreements, Dr. Amado, Dr. Binder-Scholl, Mr. Rawcliffe and William Bertrand, our Chief Operating Officer, must provide 60 days' written notice for termination without cause. This means that any of our employees in the United States, except for Dr. Amado, Dr. Binder-Scholl, Mr. Rawcliffe and Mr. Bertrand, could leave our employment at any time, with or without notice. Our success also depends on our ability to continue to attract, retain and motivate highly skilled junior, mid-level and senior managers as well as junior, mid-level and senior scientific and medical personnel.

# We will need to grow the size and capabilities of our organization, and we may experience difficulties in managing this growth.

As of June 30, 2017, we had 322 full-time equivalent employees. As our development and commercialization plans and strategies develop, we must add a significant number of additional managerial, operational, sales, marketing, financial, and other personnel. Future growth will impose significant added responsibilities on members of management, including:

- · identifying, recruiting, integrating, maintaining, and motivating additional employees;
- · managing our internal development efforts effectively, including the clinical and FDA review process for our SPEAR T-cells, while complying with our contractual obligations to contractors and other third parties; and
- · improving our operational, financial and management controls, reporting systems, and procedures.

Our future financial performance and our ability to commercialize our SPEAR T-cells will depend, in part, on our ability to effectively manage any future growth, and our management may also have to divert a disproportionate amount of its attention away from day-to-day activities in order to devote a substantial amount of time to managing these growth activities.

We also rely on third parties to provide certain of our manufacturing and quality capabilities. See "Risks Related to Our Reliance Upon Third Parties."

If we are not able to effectively expand our organization by hiring new employees and expanding our groups of consultants and contractors, we may not be able to successfully implement the tasks necessary to further develop and commercialize our SPEAR T-cells and, accordingly, may not achieve our research, development, and commercialization goals.

Expansion of our business has necessitated a move in premises both in the United Kingdom and in the United States. While the move in the United States has occurred, work is still ongoing to enable the operation of these premises as a manufacturing facility. The move in the United Kingdom occurred in the second quarter of 2017. The move required transfer of all equipment, cell lines, tissues and materials to the new premises and re-validation and calibration of equipment. Any failure to properly validate or calibrate equipment or any destruction of materials transferred to the new premises may result in additional delays to the work carried out in the United Kingdom.

#### We are intending to open a manufacturing facility of our own which may be delayed or which may result in increased costs being incurred by the company

We are in the process of development of a manufacturing facility for our SPEAR T-cell products within our Navy Yard facility in Philadelphia, United States. As a company we have never operated our own manufacturing facility or manufactured SPEAR T-cells ourselves. The ability to use the Navy Yard facility for manufacture of our products within a reasonable period of time is dependent on a number of factors including:

- · our ability to recruit the required employees at a suitable level and experience;
- · our ability to obtain regulatory approval for the facility and for SPEAR T-cells manufactured at the facility and to satisfy regulatory authorities on an ongoing basis;
- our ability to develop internal quality controls and processes sufficient to enable manufacture and supply of SPEAR T-cells at our Navy Yard facility;

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- · our ability to establish comparability with currently used manufacturing processes;
- · our ability to be able to fund the ongoing development including equipment requirements necessary for successful manufacture of SPEAR T-cells at our facility.

Should we be unable to successfully start manufacture of SPEAR T-cells at our facility within the timescales currently anticipated this could result in delays to the supply of SPEAR T-cells for our clinical programs. Should any of our third party manufacturers cease to be able to supply SPEAR T-cells prior to the time at which our manufacturing facility is able to produce SPEAR T-cells for use in our clinical programs, then we will be unable to support such clinical programs until alternative manufacturing capability is secured. The cost of developing, out-fitting and running a manufacturing facility may also be greater than currently anticipated and we may require additional capital for the completion of the manufacturing facility which may result in the need for us to raise additional funds earlier than expected.

## We expect to face intense competition, often from companies with greater resources and experience than we have.

Immunotherapy is an intensely competitive area with many of the large pharmaceutical companies having products and therapies already in clinical trials for cancer indications and autoimmune diseases. The larger resources of these companies may enable them to take therapies all the way through the regulatory process, while we will require additional investment or input from collaborators such as GSK to take our SPEAR T-cells through the regulatory process and commercialization. Smaller or early-stage companies may also prove to be significant competitors, particularly if such companies align with pharmaceutical partners and compete for patients. Results obtained by such competitors in clinical trials could also impact our ability to obtain regulatory approval or delay such approval in the event of a safety issue or other negative clinical result associated with similar T-cell or SPEAR T-cells.

In particular, we face competition from chimeric antigen receptor T-cell, or CAR-T, technologies from companies such as Novartis AG/University of Pennsylvania, Kite Pharma, Inc./Amgen Inc./National Cancer Institute, bluebird bio, Inc./Celgene Corporation/Baylor College of Medicine, Intrexon Corporation/Ziopharm Oncology, Inc./MD Anderson Cancer Center, Juno Therapeutics, Inc./Celgene Corporation/Fred Hutchinson Cancer Research Center/Memorial Sloan Kettering Cancer Center, Cellectis SA/Pfizer Inc./Servier Laboratories and Bellicum Pharmaceuticals Inc. In the TCR space, we face competition from Juno Therapeutics, Inc., Kite Pharma, Inc., Medigene AG/Bluebird Bio Inc., Bellicum Pharmaceuticals Inc., Cell Therapy TCR Ltd., Eureka Therapeutics Inc., and Takara Bio, Inc. Kite Pharma, Inc. has a murine derived TCR product in pre-clinical development targeting NY-ESO-1 and Takara Bio, Inc. have TCR product candidates in early clinical studies targeting NY-ESO-1 and MAGE-A4. Medigene AG has reported development of a PRAME TCR therapeutic candidate, which is schedule to enter clinical trials at the end of 2017, and is collaborating on a MAGE-A1 TCR which is due to enter clinical trials later in 2017. Eureka Therapeutics Inc. has announced the development of CAR-T products which target peptide-HLA complexes. They have developed CAR-Ts targeting the same NY-ESO and AFP peptides as are targeted by our SPEAR T-cells. However development still appears to be in the early stages and limited data is available to assess impact on our own SPEAR T-cells, if any. Ziopharm Oncology, Inc. has announced the development of a TCR mimetic CAR-T targeting NY-ESO-1. Adicet Bio/Regeneron Inc. have announced plans to develop TCR immunotherapy products directed to MHCpeptide complexes and Tactiva Therapeutics are developing CD4-TCRs and CD8-TCRs targeting solid tumors expressing NY-ESO. In China. Guangzhou Xiangxue Pharmaceutical are developing a lentiviral transduced NY-ESO-1 TCR for advanced lung cancer for the Chinese market. Should Kite Pharma, Inc., Takara Bio, Inc. or any of our other competitors be successful in advancing a TCR product targeting NY-ESO-1 through development, our ability to develop and advance our NY-ESO SPEAR T-cell could be adversely affected. We may also face competition from other non-TCR and non-cell based treatments such as antibody and check point inhibitor therapies offered by companies such as Amgen Inc., AstraZeneca plc, Bristol-Myers Squibb Company, Incyte Corporation, Merck & Co., Inc., and Roche Holding Ltd. Even if we obtain regulatory approval for our SPEAR T-cells, we may not be the first to market, which could affect both demand for and price of our SPEAR T-cells.

Although Immunocore is focused on soluble TCRs rather than engineered SPEAR T-cells, we could also face competition from Immunocore if it develops or acquires products directed at the same targets or indications as our TCR therapeutic product candidates.

Moreover, many of our employees have come from a shared background within Immunocore and there is an awareness within Immunocore of certain of our confidential information on the technology platform controlled through confidentiality agreements. This knowledge could be used by Immunocore to facilitate its own developments or to target competitive products against our products placing it in a preferable position as compared to third party competitors.

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The results of the United Kingdom's referendum on withdrawal from the European Union may have a negative effect on global economic conditions, financial markets and our business.

On June 23, 2016, a majority of voters in the United Kingdom elected to withdraw from the European Union in a national referendum. Intention to withdraw from the European Union was provided to the European Council on March 29, 2017. This notification has triggered a negotiation period for the terms of withdrawal from the European Union that may last for at least two years. The decision to withdraw from the European Union has created significant uncertainty about the future relationship between the United Kingdom and the European Union, including with respect to the laws and regulations that will apply as the United Kingdom determines which European Union laws to replace or replicate in the event of a withdrawal. These developments, or the perception that any of them could occur, may have a material adverse effect on global economic conditions and the stability of global financial markets, and may significantly reduce global market liquidity and restrict the ability of key market participants to operate in certain financial markets. Any of these factors could depress economic activity and restrict our access to capital, which could have a material adverse effect on our business, financial condition and results of operations and reduce the price of our securities. In addition, currency exchange rates in the pounds sterling and the euro with respect to each other and the U.S. dollar have already been adversely affected by these developments. Should this foreign exchange volatility continue, it could cause

volatility in our quarterly financial results which may affect the market price of our ADSs.

#### Failure of our information technology systems could significantly disrupt the operation of our business.

Our ability to execute our business plan and to comply with regulators' requirements with respect to data control and data integrity, depends, in part, on the continued and uninterrupted performance of our information technology systems and similar systems used by third-party providers that we rely on. These systems are vulnerable to damage from a variety of sources, including telecommunications or network failures, malicious human acts and natural disasters. Moreover, despite network security and back-up measures, some of our servers are potentially vulnerable to physical or electronic break-ins, computer viruses and similar disruptive problems. Despite the precautionary measures we have taken to prevent unanticipated problems that could affect our information systems, sustained or repeated system failures or problems arising during the upgrade of any of our information systems that interrupt our ability to generate and maintain data, and in particular to operate our proprietary technology platform, could adversely affect our ability to operate our business. In addition, where disruption to such systems occurs at third-party providers, we may have limited ability to find alternative providers in any required timeframes or at all, and such disruption could significantly affect our ability to proceed with clinical or analytical or development programs.

#### Business disruptions could seriously harm our future revenue and financial condition and increase our costs and expenses.

Our operations and those of our third party suppliers and collaborators could be subject to earthquakes, power shortages, telecommunications failures, water shortages, floods, hurricanes or other extreme weather conditions, medical epidemics, labor disputes or other business interruptions. While the company has business interruption insurance policies in place, any interruption could seriously harm our ability to timely proceed with any clinical programs or to supply SPEAR T-cells on a commercial basis or for use in clinical programs.

### We are exposed to risks related to currency exchange rates.

We conduct a significant portion of our operations within the United Kingdom in both U.S. dollars and pounds sterling and our arrangements with GSK are denominated in pounds sterling. Changes in currency exchange rates have had and could have a significant effect on our operating results. Exchange rate fluctuations between the U.S. dollar and local currencies create risk in several ways, including the following: weakening of the pound sterling may increase the cost of overseas research and development expenses and other costs outside the United Kingdom; strengthening of the U.S. dollar may decrease the value of any future revenues denominated in other currencies. Effects of exchange rates on transactions and cash deposits held in a currency other than the functional currency of a subsidiary can distort our financial results; and commercial pricing and profit margins are affected by currency fluctuations.

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We may be classified as a passive foreign investment company in any taxable year and U.S. holders of our ADSs could be subject to adverse U.S. federal income tax consequences.

The rules governing passive foreign investment companies, or PFICs, can have adverse effects for U.S. federal income tax purposes. The tests for determining PFIC status for a taxable year depend upon the relative values of certain categories of assets and the relative amounts of certain kinds of income. The determination of whether we are a PFIC depends on the particular facts and circumstances (such as the valuation of our assets, including goodwill and other intangible assets) and may also be affected by the application of the PFIC rules, which are subject to differing interpretations. Based on our estimated gross income, the average value of our assets, including goodwill and the nature of our active business, we do not believe that the Company was classified as a PFIC for U.S. federal income tax purposes for the U.S. taxable year ended December 31, 2016. There can be no assurance, however, that we will not be considered to be a PFIC for this taxable year or any particular year in the future because PFIC status is factual in nature, depends upon factors not wholly within our control, generally cannot be determined until the close of the taxable year in question, and is determined annually.

If we are a PFIC, U.S. holders of our ADSs would be subject to adverse U.S. federal income tax consequences, such as ineligibility for any preferred tax rates on capital gains or on actual or deemed dividends, interest charges on certain taxes treated as deferred, and additional reporting requirements under U.S. federal income tax laws and regulations. A U.S. holder of our ADSs may be able to mitigate some of the adverse U.S. federal income tax consequences described above with respect to owning the ADSs if we are classified as a PFIC, provided that such U.S. investor is eligible to make, and validly makes, a "mark-to-market" election. In certain circumstances a U.S. Holder can make a "qualified electing fund" election to mitigate some of the adverse tax consequences described with respect to an ownership interest in a PFIC by including in income its share of the PFIC's income on a current basis. However, we do not currently intend to prepare or provide the information that would enable a U.S. Holder to make a qualified electing fund election.

Investors should consult their own tax advisors regarding all aspects of the application of the PFIC rules to our ordinary shares.

### Risks Related to Ownership of our American Depositary Shares (ADSs)

## The price of our ADSs may be volatile.

Many factors may have a material adverse effect on the market price of the ADSs, including but not limited to:

- · the commencement, enrollment or results of our planned clinical trials;
- · the loss of any of our key scientific or management personnel;
- announcements of the failure to obtain regulatory approvals or receipt of a complete response letter from the FDA;
- announcements of undesirable restricted labeling indications or patient populations, or changes or delays in regulatory review processes;
- · announcements of therapeutic innovations or new products by us or our competitors;
- · adverse actions taken by regulatory agencies with respect to our clinical trials, manufacturing supply chain or sales and marketing activities;
- · changes or developments in laws or regulations applicable to our SPEAR T-cells;
- $\cdot$   $\,$  any adverse changes to our relationship with licensors, manufacturers or suppliers;
- · the failure of our testing and clinical trials;
- unanticipated safety concerns;
- · the failure to retain our existing, or obtain new, collaboration partners;

- · announcements concerning our competitors or the pharmaceutical industry in general;
- · the achievement of expected product sales and profitability;
- the failure to obtain reimbursements for our SPEAR T-cells, if approved for marketing, or price reductions;
- · manufacture, supply or distribution shortages;

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- · actual or anticipated fluctuations in our operating results;
- our cash position;
- · changes in financial estimates or recommendations by securities analysts;
- potential acquisitions;
- · the trading volume of ADSs on Nasdaq Global Select Market, or Nasdaq;
- · sales of our ADSs by us, our executive officers and directors or our shareholders in the future;
- general economic and market conditions and overall fluctuations in the U.S. equity markets;
- the change in our status from reporting as a foreign private issuer to reporting as a U.S. domestic company now using Securities Act and Exchange Act U.S. domestic company forms; and
- · changes in accounting principles.

In addition, the stock market in general, and Nasdaq and biopharmaceutical companies in particular, have experienced extreme price and volume fluctuations that have often been unrelated or disproportionate to the operating performance of these companies. Broad market and industry factors may negatively affect the market price of our ADSs, regardless of our actual operating performance. Further, a decline in the financial markets and related factors beyond our control may cause the price of our ADSs to decline rapidly and unexpectedly.

Substantial future sales of our ADSs in the public market, or the perception that these sales could occur, could cause the price of the ADSs to decline and dilute shareholders.

Substantial future sales of our ADSs in the public market, or the perception that these sales could occur, could cause the market price of the ADSs to decline. Sales of a substantial number of our ADSs in the public market could occur at any time. Moreover, certain shareholders have rights under an investors rights agreement dated as of February 23, 2015, subject to certain conditions, to require us to file registration statements covering their shares or to include their shares in registration statements that we may file for ourselves or other shareholders. In addition, we have registered an aggregate of 66,999,747 ordinary shares that we may issue under our equity compensation plans and, as a result, they can be freely sold in the public market upon issuance and following conversion into ADSs, but subject to volume limitations applicable to affiliates under Rule 144. Additionally, the majority of ordinary shares that may be issued under our equity compensation plans also remain subject to vesting in tranches over a four year period. As of June 30, 2017, an aggregate of 25,887,628 options over our ordinary shares had vested and become exercisable. If a large number of our ADSs are sold in the public market after they become eligible for sale, the sales could reduce the trading price of our ADSs and impede our ability to raise capital in the future.

We incur increased costs as a result of being a public company whose ADSs are publicly traded in the United States and our management must devote substantial time to public company compliance.

As a U.S. public company whose ADSs trade on Nasdaq, we have incurred and will continue to incur significant legal, accounting, insurance and other expenses. We are subject to the reporting requirements of the Exchange Act, which requires, among other things, that we file with the SEC annual, quarterly and current reports with respect to our business and financial condition and must comply with the Nasdaq listing requirements and other applicable securities rules and regulations. In addition, the Sarbanes-Oxley Act, as well as rules subsequently adopted by the SEC and the Nasdaq to implement provisions of the Sarbanes-Oxley Act, impose significant requirements on public companies, including requiring establishment and maintenance of effective disclosure and financial controls and changes in corporate governance practices. Further, pursuant to the Dodd-Frank Wall Street Reform and Consumer Protection Act of 2010, the SEC has adopted and will adopt additional rules and regulations, such as mandatory "say on pay" voting requirements, that will apply to us when we cease to be an emerging growth company. We expect the rules and regulations applicable to public companies to substantially increase our legal and financial compliance costs and to make some activities more time-consuming and costly. To the extent these requirements divert the attention of our management and personnel from other business concerns, they could have a material adverse effect on our business, financial condition and results of operations. The increased costs will increase our net loss and may require us to reduce costs in other areas of our business.

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In the future, we may not be exempt from various reporting requirements that apply to us as an emerging growth company. For example, while the Sarbanes-Oxley Act currently requires us, among other things, to assess the effectiveness of our internal control over financial reporting annually and to assess the effectiveness of our disclosure controls and procedures quarterly, once we cease to be an emerging growth company our independent registered public accounting firm will be required to attest to and report on the effectiveness of our internal control over financial reporting which will require us to incur substantial accounting expenses and expand significant management time on compliance related issues.

We are an emerging growth company and we cannot be certain that the reduced disclosure requirements applicable to emerging growth companies will not make our ADSs less attractive to investors.

We are an "emerging growth company," as defined in the Jumpstart Our Business Start-ups Act of 2012, or the JOBS Act, and have elected to take advantage of the following provisions of the JOBS Act: the exemption from the auditor attestation requirements of Section 404 of the Sarbanes-Oxley Act; not providing all of the compensation disclosure that may be required of non-emerging growth public companies under the U.S. Dodd-Frank Wall Street Reform and Consumer Protection Act; not disclosing certain executive compensation-related items such as the correlation between executive compensation and performance and comparisons of the Chief Executive Officer's compensation to employee compensation; not complying with any requirement that may be adopted by the Public Company Accounting Oversight Board regarding mandatory audit firm rotation or a supplement to the auditor's report providing additional information about the audit and the financial statements (auditor discussion and

analysis and an extended transition period to comply with new or revised accounting standards applicable to public companies). In addition we have elected to take advantage of (1) reduced disclosure obligations regarding executive compensation in our periodic reports and proxy statements; and (2) exemptions from the requirements of holding a non-binding advisory vote on executive compensation including golden parachute compensation. As a result of these elections, our future financial statements may not be comparable to companies that comply with these obligations and our investors may not have access to certain information they may deem important.

Our independent registered public accounting firm will not be required to provide an attestation report on the effectiveness of our internal control over financial reporting as long as we qualify as an "emerging growth company," which may increase the risk that weaknesses or deficiencies in our internal control over financial reporting go undetected and may make it more difficult for investors and securities analysts to evaluate our company. We may take advantage of these reporting exemptions until we are no longer an emerging growth company. We will remain an emerging growth company until the earliest of (i) December 31, 2020, (ii) the last day of the fiscal year (a) in which we have total annual gross revenue of at least \$1.07 billion or (b) in which we are deemed to be a large accelerated filer, which requires the market value of our ordinary shares that are held by non-affiliates to exceed \$700.0 million as of the prior June 30<sup>th</sup>, and (iii) the date on which we have issued more than \$1.0 billion in non-convertible debt during the prior three-year period. We cannot predict if investors will find our ADSs less attractive because we may rely on these exemptions. If some investors find our ADSs less attractive, there may be a less active trading market for our ADSs, and the price of our ADSs may be more volatile and may decline.

#### If we fail to establish and maintain proper internal controls, our ability to produce accurate financial statements or comply with applicable regulations could be impaired.

Section 404(a) of the Sarbanes-Oxley Act, requires that management assess and report annually on the effectiveness of our internal controls over financial reporting and identify any material weaknesses in our internal controls over financial reporting. Although Section 404(b) of the Sarbanes-Oxley Act requires our independent registered public accounting firm to issue an annual report that addresses the effectiveness of our internal controls over financial reporting, we have opted to rely on the exemptions provided in the JOBS Act, and consequently will not be required to comply with SEC rules that implement Section 404(b) of the Sarbanes-Oxley Act until such time as we are no longer an emerging growth company.

The presence of material weaknesses could result in financial statement errors which, in turn, could lead to errors in our financial reports, delays in our financial reporting, could require us to restate our operating results or our auditors may be required to issue a qualified audit report. We might not identify one or more material weaknesses in our internal controls in connection with evaluating our compliance with Section 404(a) of the Sarbanes-Oxley Act. In order to maintain and improve the effectiveness of our disclosure controls and procedures and internal controls over financial reporting, we will need to expend significant resources and provide significant management oversight. Implementing any appropriate changes to our internal controls may require specific compliance training of our directors and employees, entail substantial costs in order to modify our existing accounting systems, take a significant period of time to complete and divert management's attention from other business concerns. These changes may not, however, be effective in maintaining the adequacy of our internal control.

If either we are unable to conclude that we have effective internal controls over financial reporting or, at the appropriate time, our independent auditors are unwilling or unable to provide us with an unqualified report on the effectiveness of our internal controls over financial reporting as required by Section 404(b) of the Sarbanes-Oxley Act, investors may lose confidence in our operating results, the price of our ADSs could decline and we may be subject to litigation or regulatory enforcement actions. In addition, if we are unable to meet the requirements of Section 404 of the Sarbanes-Oxley Act, we may not be able to remain listed on Nasdaq.

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We incur significant increased costs as a result of operating as a company whose ADSs are publicly traded in the United States, and our management is required to devote substantial time to new compliance initiatives.

As a company whose ADSs are publicly traded in the United States since May 6, 2015, we have incurred, and will continue to incur, significant legal, accounting, insurance and other expenses that we did not previously incur as a private company. In addition, the Sarbanes-Oxley Act, the Dodd-Frank Wall Street Reform and Consumer Protection Act and related rules implemented by the SEC and Nasdaq have imposed various requirements on public companies including requiring establishment and maintenance of effective disclosure and financial controls. Our management and other personnel need to devote a substantial amount of time to these compliance initiatives. Moreover, these rules and regulations have increased, and will continue to increase, our legal and financial compliance costs and will make some activities more time-consuming and costly. Our insurance costs have increased, particularly for directors and officers liability insurance, and we may be required to incur further substantial increased costs to maintain the same or similar coverage or be forced to accept reduced coverage in future. These laws and regulations could also make it more difficult and expensive for us to attract and retain qualified persons to serve on our board of directors, our board committees or as our executive officers. Furthermore, if we are unable to satisfy our obligations as a public company, we could be subject to delisting of the ADSs from Nasdaq, fines, sanctions and other regulatory action and potentially civil

## U.S. investors may have difficulty enforcing civil liabilities against our company, our directors, officers and members of senior management.

We are incorporated under the laws of England and Wales. The rights of holders of our ordinary shares and, therefore, certain of the rights of holders of ADSs, are governed by English law, including the provisions of the Companies Act 2006, and by our articles of association. These rights differ in certain respects from the rights of shareholders in typical U.S. corporations organized in, for example, Delaware. Some of our directors, officers and members of senior management reside outside the United States, and a substantial portion of our assets and all or a substantial portion of the assets of such persons are located outside the United States. As a result, it may be difficult for you to serve legal process on us or our directors and executive officers or have any of them appear in a U.S. court. The United States and the United Kingdom do not currently have a treaty providing for the recognition and enforcement of judgments, other than arbitration awards, in civil and commercial matters. The enforceability in the United Kingdom of any judgment of a U.S. federal or state court will depend on the particular facts of the case as well as the laws and any treaties in effect at the time, including conflicts of laws principles (such as those bearing on the question of whether a U.K. court would recognize the basis on which a U.S. court had purported to exercise jurisdiction over a defendant). In this context, there is doubt as to the enforceability in the United Kingdom, in original actions or in actions for enforcement of judgments of U.S. courts, of civil liabilities based solely on the federal securities laws of the United States. In addition, awards for punitive damages in actions brought in the United States or elsewhere may be unenforceable in the United Kingdom. An award for monetary damages under the U.S. securities laws would likely be considered punitive if it did not seek to compensate the claimant for loss or damage suffered and was intended to punish the defendant.

Provisions in the U.K. City Code on Takeovers and Mergers may have anti-takeover effects that could discourage an acquisition of us by others, even if an acquisition would be beneficial to our shareholders.

The U.K. City Code on Takeovers and Mergers, or the Takeover Code, applies to an offer for, among other things, a public company whose registered office is in the United Kingdom (or the Channel Islands or the Isle of Man) and whose securities are not admitted to trading on a regulated market or multilateral trading facility in the United Kingdom (or the Channel Islands or the Isle of Man) if the company is considered by the Panel on Takeovers and Mergers, or the Takeover Panel, to have its place of central management and control in the United Kingdom (or the Channel Islands or the Isle of Man). This is known as the "residency test." The test for central management and control under the Takeover Code is different from that used by the U.K. tax authorities. Under the Takeover Code, the Takeover Panel will determine whether we have our place of central management and control in the United Kingdom by looking at various factors, including the structure of our Board, the functions of the directors and where they are resident.

If at the time of a takeover offer the Takeover Panel considers that we have our place of central management and control in the United Kingdom, we would be subject to a number of rules and restrictions, including but not limited to the following: (1) our ability to enter into deal protection arrangements with a bidder would be extremely limited;(2) we might not, without the approval of our shareholders, be able to perform certain actions that could have the effect of frustrating an offer, such as issuing shares or carrying out acquisitions or disposals; and (3) we would be obliged to provide equality of information to all bona fide competing bidders.

# Item 2. Unregistered Sales of Equity Securities and Use of Proceeds.

None.

## Item 3. Defaults Upon Senior Securities.

None.

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# Item 4. Mine Safety Disclosures.

Not applicable.

## Item 5. Other Information.

None.

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## Item 6. Exhibits.

The following exhibits are either provided with this Quarterly Report on Form 10-Q or are incorporated herein by reference:

| Exhibit<br>Number   | Description of Exhibit  |  |
|---------------------|---|--|
| 3.1*                | Articles of Association of Adaptimmune Therapeutics plc (incorporated by reference to Exhibit 3.1 to our Form 8-K filed with the SEC on June 16, 2016).                             |  |
| 10.1**              | Agreement for Lease, dated May 25, 2017, between MEPC Milton Park No.1 Limited, MEPC Milton Park No.2 Limited and Adaptimmune Limited relating to 39 Innovation Drive, Milton Park. |  |
| 31.1**              | Certificate of Chief Executive Officer pursuant to 17 CFR 240.13a-14(a).  |  |
| 31.2**              | Certificate of Chief Financial Officer pursuant to 17 CFR 240.13a-14(a).  |  |
| 32.1**              | Certificate of Chief Executive Officer pursuant to 17 CFR 240.13a-14(b) and 18 U.S.C.1350.  |  |
| 32.2**              | Certificate of Chief Financial Officer pursuant to 17 CFR 240.13a-14(b) and 18 U.S.C.1350.  |  |
| 101.INS**           | XBRL Instance Document.   |  |
| 101.SCH**           | XBRL Taxonomy Extension Schema Document.  |  |
|                     |   |  |
| 101.CAL**           | XBRL Taxonomy Extension Calculation Linkbase Document.  |  |
| 101.DEF**           | XBRL Taxonomy Extension Definition Linkbase Document.   |  |
| 101.LAB**           | XBRL Taxonomy Extension Label Linkbase Document.  |  |
| 101.PRE**           | XBRL Taxonomy Extension Presentation Linkbase Document.   |  |
|                     |   |  |
| * Previously filed. |   |  |

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# SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

ADAPTIMMUNE THERAPEUTICS PLC

/s/ James Noble James Noble

Filed herewith.

/s/ Adrian Rawcliffe
Adrian Rawcliffe
Chief Financial Officer





**DATED 25 May 2017** 

(1) MEPC MILTON PARK NO. 1 LIMITED AND MEPC MILTON PARK NO. 2 LIMITED

(2) ADAPTIMMUNE LIMITED

AGREEMENT FOR LEASE

relating to

39 Innovation Drive

Milton Park

+44 [0] 1235 836600 BSDR.COM DX 144160 ABINGDON 4

BrookStreet des Roches LLP 25A Western Avenue, Milton Park, Abingdon, Oxfordshire, OX14 4SH



## THIS AGREEMENT is made the 25 day of May 2017 BETWEEN

| (1) | MEPC MILTON PARK NO. 1 LIMITED (Company number 5491670) and MEPC MILTON PARK NO. 2 LIMITED (Company number                                   |
|-----|--|
|     | 5491806), on behalf of MEPC Milton LP (LP No. LP14504), both of whose registered offices are at Lloyds Chambers 1 Portsoken Street London E1 |
|     | 8HZ; and   |

(2) ADAPTIMMUNE LIMITED (Company number 6456741) whose registered office is at 101 Park Drive Milton Park Abingdon Oxfordshire OX14 4RY: and

# DEFINITIONS

- In this Agreement save where the context otherwise requires the following words and expressions have the following meanings:
- 1.1 Break Dates mean Break Date 1, Break Date 2, Break Date 3 and Break Date 4 as defined in the Lease;
- 1.2 Completion Date means:
- 1.2.1 If Clause 5.1 shall apply: the earlier of the Date of Practical Completion or 13 weeks after the Unconditional Date; and
- **1.2.2** If Clause 5.2 shall apply: the Date of Practical Completion;
- 1.3 Condition Precedent 1 means the grant of Planning Permission;
- 1.4 Condition Precedent 2 means the securing of vacant possession of the Property;
- 1.5 Conditions Precedent means Condition Precedent 1 and Condition Precedent 2;
- 1.6 Employer's Agent means means Ridge & Partners LLP of The Cowyards, Blenheim Park, Oxford Road, Woodstock, OX20 1QR or such other Employer's Agent as may be jointly appointed from time to time in connection with the Landlord's Works by the Landlord and the Tenant (acting reasonably);
- 1.7 **Date of Practical Completion** means the date on which the Employer's Agent issues a certificate of practical completion of the Property under the Landlord's Works
- 1.8 Defects Liability Period means the period of twelve (12) months commencing on the Date of Practical Completion
- 1.9 Landlord means MEPC Milton Park No. 1 Limited and MEPC Milton Park No. 2 Limited, on behalf of MEPC Milton LP and their successors in title to the Property;
- **1.10** Landlord's Works the works described in Schedule 1;
- 1.11 Landlord's Works Payment (Landlord) means a reverse premium to be paid to the Tenant as an inducement to accept the grant of the Lease as reimbursement for expenditure incurred by or on behalf of the Tenant in respect of the procurement of the Landlord's Works and directly associated therewith being the lesser of:

| 1.11.1 | £437,161; and   |  |  |
|--------|---|--|--|
| 1.11.2 | the aggregate expenditure (exclusive of VAT) incurred by or on behalf of the Tenant in respect of the procurement of the Landlord's Works and directly associated therewith;  |  |  |
| 1.12   | Landlord's Works Payment (Tenant) means the aggregate expenditure (exclusive of VAT) incurred by or on behalf of the Landlord in respect of the procurement of the Landlord's Works and directly associated therewith, less the sum of £437,161, provided that the minimum value of the Landlord's Works Payment (Tenant) shall be £0;  |  |  |
| 1.13   | Lease means a lease in the form of the settled draft lease of the Property and set out in Schedule 2 and marked "Lease_39 Innovation Drive_Milton Park";  |  |  |
| 1.14   | Licence for Alterations means the licence permitting the Tenant's Works in the form of the settled draft set out in Schedule 4  |  |  |
| 1.15   | Local Development Order means the Milton Park Local Development Order adopted by the Vale of White Horse District Council on 12 December 2012 pursuant to paragraph 3 of Schedule 4A of the Town and Country Planning Act 1990 and which came into effect on 15 January 2013;   |  |  |
| 1.16   | <b>Planning Permission</b> means planning permission for a change of use to allow the Property to be used for purposes within Class B1(b) of the Town and Country Planning (Use Classes) Order 1987 (as originally  |  |  |
|        |   |  |  |
|        | enacted) to be granted by the Landlord receiving confirmation from the Local Planning Authority in writing (in accordance with clause 4.1.2 of the Local Development Order) that the proposed change of use is permitted by the Local Development Order;  |  |  |
| 1.17   | <b>Property</b> means the premises to be demised by and more particularly described in the Lease as 39 Innovation Drive, Milton Park, Abingdon, Oxfordshire OX14 4RT;   |  |  |
| 1.18   | Rent Security Deposit Deed means the rent security deposit deed in the form of the settled draft deed set out in Schedule 3;  |  |  |
| 1.19   | Regulations means the Construction (Design and Management) Regulations 2015 (as may be amended);  |  |  |
| 1.20   | <b>Required Permissions</b> means the all necessary statutory consents including building regulation approvals for the implementation of the Landlord's Works;  |  |  |
| 1.21   | Review Dates means the 'Review Dates' defined in the Lease;   |  |  |
| 1.22   | Standard Conditions means the Standard Commercial Property Conditions (Second Edition) and Standard Condition shall be interpreted accordingly;   |  |  |
| 1.23   | Tenant means Adaptimmune Limited (Company number 6456741);  |  |  |
| 1.24   | Tenant's Works means the Tenant's works to fit out the Property in accordance with the Tenant's Works Specification;  |  |  |
| 1.25   | Tenant's Works Specification means the drawings and specifications approved in accordance with clause 9;  |  |  |
| 1.26   | Unconditional Date means the date both of the Conditions Precedent shall have been satisfied;   |  |  |
| 1.27   | VAT means Value Added Tax and any similar tax substituted for it or levied in addition to it;   |  |  |
| 1.28   | Working Day means any day except Saturdays, Sundays and bank, public and statutory holidays.  |  |  |
|        | INTERPRETATION  |  |  |
| 2      | In the interpretation of this Agreement references to clauses shall be references to clauses in this Agreement and the clause headings shall be ignored.  |  |  |
|        | STANDARD CONDITIONS   |  |  |
| 3      | The Standard Conditions shall apply to this Agreement save for Standard Conditions 2.2 and 9.2(a). In case of conflict between this Agreement and the Standard Conditions, this Agreement prevails. Terms used or defined in the Standard Conditions have the same meanings when used in this Agreement, and vice versa save that "seller" shall mean the Landlord and "buyer" shall mean the Tenant. |  |  |
|        | CONDITION PRECEDENT   |  |  |
| 4      | This Agreement (save for Clauses 1, 2, 4, 12, 15, 16, 17, 23, 24, 27 and 28 which take effect now with immediate effect) shall be conditional on and shall only have effect in the event that the Unconditional Date shall have occurred; and   |  |  |
| 4.1    | With regard to Condition Precedent 1: the Tenant shall not oppose any application for Planning Permission made by (or on behalf of) the Landlord in accordance with this Agreement and shall, if requested and at the Landlord's cost, provide reasonable support for any such application; and   |  |  |
| 4.2    | With regard to Condition Precedent 2: the Landlord shall be the sole arbiter of the appropriateness of any steps taken to secure vacant possession; and   |  |  |
| 4.3    | If the Unconditional Date shall not have occurred by 31 January 2018, as to which time shall be of the essence, either the Landlord or the Tenant may determine this Agreement by giving to the other not less than five (5) Working Days' notice in writing and (if any such notice is given) on expiry of such notice:  |  |  |
| 4.3.1  | this Agreement shall immediately determine and be of no further effect; and   |  |  |
| 4.4    | in respect of this Agreement, no party shall have any further claims against or liability to any other party save in respect of any antecedent breach of the terms of this Agreement.   |  |  |
|        | LANDLORD'S WORKS  |  |  |

The following provisions shall apply in respect of the Landlord's Works:

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| 5.1      | If the Unconditional Date shall occur on or after 1 September 2017:  |  |  |
|----------|--|--|--|
| 5.1.1    | The Tenant will at its own expense apply for all Required Permissions and diligently use all reasonable endeavours to obtain the Required Permissions as quickly as possible;  |  |  |
| 5.1.2    | Subject to the Required Permissions, once obtained, remaining in all material respects unrevoked and unaltered the Tenant will cause the Landlord's Works to be carried out and completed:   |  |  |
| 5.1.2.1  | at its own expense;  |  |  |
| 5.1.2.2  | in a good and workmanlike manner;  |  |  |
| 5.1.2.3  | using sound building practice and materials of good quality;   |  |  |
| 5.1.2.4  | in accordance with the Required Permissions;   |  |  |
| 5.1.2.5  | in accordance with the specification set out in Schedule 1;  |  |  |
| 5.1.2.6  | in compliance with all requirements of the insurers or underwriters with whom the Property shall for the time being be insured;  |  |  |
| 5.1.2.7  | pursuant to a JCT Minor Works Building Contract 2011 with such amendments as are set out in as are agreed between the Landlord and Tenant (both acting reasonably) and which provides third party rights in favour of the Landlord to enable the Landlord to take action against the contractor under the Building Contract on no less favourable a basis than the employer under the Building Contract could have done; |  |  |
| 5.1.2.8  | so that when the Landlord's Works are completed the Property is in a clean and tidy condition with no persons other than the Tenant being in occupation or possession of it or any part of it;   |  |  |
| 5.1.2.9  | using reasonable endeavours to commence the Landlord's Works within 5 Working Days after the Unconditional Date and to complete the Landlord's Works within 10 weeks after commencing the Landlord's Works;  |  |  |
| 5.1.3    | The Tenant shall keep the Landlord reasonably informed of the progress of the Landlord's Works which shall not be less than once a month in writing;   |  |  |
| 5.1.4    | During the carrying out of the Landlord's Works the Landlord (together with its representatives) shall have the right (subject to the Tenant's approval not to be unreasonably withheld or delayed) to inspect the Landlord's Works;   |  |  |
| 5.1.5    | The right to inspect at clause 5.1.4 shall be subject to the Landlord complying with any reasonable health and safety requirements of the Tenant or any contractor engaged in the Landlord's Works and also subject to the Landlord ensuring that no instructions are given to any aforesaid contractor;   |  |  |
| 5.2      | If the Unconditional Date shall occur before 1 September 2017:   |  |  |
| 5.2.1    | The Landlord will at its own expense apply for all Required Permissions and diligently use all reasonable endeavours to obtain the Required Permissions as quickly as possible;  |  |  |
| 5.2.2    | Subject to the Required Permissions, once obtained, remaining in all material respects unrevoked and unaltered the Landlord will cause the Landlord's Works to be carried out and completed:   |  |  |
| 5.2.2.1  | at its own expense;  |  |  |
| 5.2.2.2  | in a good and workmanlike manner;  |  |  |
| 5.2.2.3  | using sound building practice and materials of good quality;   |  |  |
| 5.2.2.4  | in accordance with the Required Permissions;   |  |  |
| 5.2.2.5  | as cost effectively as is reasonably practicable;  |  |  |
| 5.2.2.6  | in accordance with the specification set out in Schedule 1;  |  |  |
| 5.2.2.7  | in compliance with all requirements of the insurers or underwriters with whom the Property shall for the time being be insured;  |  |  |
| 5.2.2.8  | pursuant to a JCT Minor Works Building Contract 2011 with such amendments as are set out in as are agreed between the Landlord and Tenant (both acting reasonably) and which provides third party rights in favour of the Tenant to enable the Tenant to take action against the contractor under the Building Contract on no less favourable a basis than the employer under the Building Contract could have done      |  |  |
| 5220     | so that the Landlard's Works when completed are delivered to the Tenant in a clean and tidy condition with the bonefit of vecant recession.  |  |  |
| 5.2.2.9  | so that the Landlord's Works when completed are delivered to the Tenant in a clean and tidy condition with the benefit of vacant possession;   |  |  |
| 5.2.2.10 | using reasonable endeavours to commence the Landlord's Works within 5 Working Days after the Unconditional Date and to complete the Landlord's Works within 10 weeks after commencing the Landlord's Works;  |  |  |
| 523      | The Landlord shall keen the Tenent reasonably informed of the progress of the Landlord's Works which shall not be less than once a month in writing:   |  |  |

The Landlord shall keep the Tenant reasonably informed of the progress of the Landlord's Works which shall not be less than once a month in writing;

to be unreasonably withheld or delayed) to inspect the Landlord's Works;

During the carrying out of the Landlord's Works the Tenant (together with its representatives) shall have the right (subject to the Landlord's approval not

5.2.3

5.2.4

- 5.2.5 The right to inspect at clause 5.2.4 shall be subject to the Tenant complying with any reasonable health and safety requirements of the Landlord or any contractor engaged in the Landlord's Works and also subject to the Tenant ensuring that no instructions are given to any aforesaid contractor;
- As soon as reasonably practicable following the Date of Practical Completion the Tenant shall prepare a schedule of condition of the Property (including the Landlord's Works but excluding the Tenant's Works) to be approved by the Landlord (such approval not to be unreasonably withheld or delayed) to be referenced in the Lease.

#### EARLY OCCUPATION

If Clause 5.1 shall apply, with effect from and including the Unconditional Date to but excluding the Completion Date, the Tenant may occupy the Property as a licensee without charge and the parties shall perform and observe all the covenants and conditions on their respective parts to be contained in the Lease (other than in respect of payment of Rents) so far as the same may be applicable to a relationship of licensor and licensee but this Agreement shall not operate as a demise nor confer any proprietary right in the Property (other than one to occupy as licensee) on the Tenant.

### PRACTICAL COMPLETION

- The party not responsible for carrying out the Landlord's Works shall be entitled to:
- 7.1 not less than five (5) days' written notice of the date on which the Employer's Agent intends to inspect the Landlord's Works with a view to issuing the certificate of practical completion of the Landlord's Works; and
- 7.2 to accompany the Employer's Agent on the inspection of the Landlord's Works for the purpose of issuing the certificate of practical completion of the Landlord's Works and (at such inspection) to make representations to the Employer's Agent in respect of any proposed certification of practical completion and the Landlord shall procure that:
- 7.2.1 the Employer's Agent shall have due regard to such representations and shall take into account all such proper and reasonable representations; and
- 7.2.2 the Employer's Agent shall (at such inspection) prepare a list of snagging items (being items of the Landlord's Works which are outstanding but capable of being rectified and are not sufficiently serious to prevent the Employer's Agent from issuing the certificate of Practical Completion of the Landlord's Works:

PROVIDED THAT the Employer's Agent's independent discretion as to the issuing of the certificate of practical completion of the Landlord's Works shall not be fettered by any representations made by or on behalf of the Tenant or the Landlord and forthwith after the Landlord shall have been notified of the occurrence of the Date of Practical Completion the Landlord shall give notice to the Tenant of the Date of Practical Completion;

7.2.3 In addition to providing a Certificate of Practical Completion the Employer's Agent will issue a costed summary of aggregate expenditure in respect of carrying out the Landlord's Works.

#### LANDLORD'S WORKS PAYMENT

- 8 On the later of 10 Working Days after:
- 8.1 The Date of Practical Completion; and
- **8.2** The Completion Date;

and subject to the Employer's Agent issuing the costed summary of aggregate expenditure referred to at clause 7.2.3

- 8.3 If Clause 5.1 shall apply the Landlord shall pay the Landlord's Works Payment (Landlord) to the Tenant by direct credit;
- 8.4 If Clause 5.2 shall apply the Tenant shall pay the Landlord's Works Payment (Tenant) to the Landlord by direct credit.

### TENANT'S WORKS

- 9 The following shall apply in respect of the Tenant's Works:
- 9.1 The Tenant shall submit full details (including projected costings) of the proposals for the Tenant's Works for approval to the Landlord no later than 1st December 2017 such approval not to be unreasonably withheld or delayed);
- 9.2 If such proposals shall be approved in writing by the Landlord (which approval shall not be unreasonably withheld or delayed) the relevant proposals shall constitute the Tenant's Works Specification;
- **9.3** The Tenant may carry out the Tenant's Works on the following basis:
- 9.3.1 if such proposals shall be approved in writing by the Landlord (which approval shall not be unreasonably withheld or delayed but the Tenant shall indemnify the Landlord against all fees and disbursements incurred by the Landlord in the approval and all inspections of the Tenant's Works and provided that the Landlord may in its absolute discretion refuse to approve any proposals which would affect the structural integrity of the Property or any part of the Property) the relevant proposals shall constitute the Tenant's Works Specification but the Tenant shall not commence to carry out any works before they have been so approved;
- 9.3.2 if the Tenant wishes to carry out any works which materially differ from the Tenant's Works Specification it shall submit full details of the proposals for such works to the Landlord and if such proposals shall be approved in writing by the Landlord (which approval shall not be unreasonably withheld or delayed but the Tenant shall indemnify the Landlord against all fees and disbursements incurred by the Landlord in the approval and all inspections of the Tenant's Works and provided that the Landlord may in its absolute discretion refuse to approve any proposals which would affect the structural integrity of the Property or any part of the Property) the relevant proposals shall form part of the Tenant's Works and the provisions of this Agreement in relation to the Tenant's Works shall apply thenceforth to the Tenant's Works as so amended PROVIDED THAT the Tenant shall not commence to carry out any works before they have been so approved;
- 9.3.3 the provisions contained in the Licence for Alterations and also the provisions of clause 4.11 of the Lease with regard to alterations shall apply to the Tenant's Works as if the Licence for Alterations had been granted;

- **9.4** If the Tenant shall carry out the Tenant's Works:
- 9.4.1 on completion of the Tenant's Works the Tenant shall give notice to the Landlord and shall produce to the Landlord a complete electronic set of as-built plans and specifications for the Tenant's Works and two (2) printed sets of as-built plans and specifications for the Tenant's Works (which shall be incorporated in the Licence for Alterations);
- 9.4.2 the Landlord and the Tenant shall complete the Licence for Alterations on the Completion Date or, if later, on completion of the Tenant's Works.

#### DEFECTS

- In the event that clause 5.2 applies the Landlord shall as soon as reasonably practicable make good or procure the making good at its own expense all defects (but not any defect which is wholly or partially due to normal condensation, natural shrinkage or drying out) to the Property which are directly attributable to:
- **10.1** Defective design, workmanship, supervision or materials; or
- 10.2 Defective supervision of the construction and finishing of the Landlord's Works

which appear and are notified to the Landlord in writing by the Tenant at any time before the expiration of the Defects Liability Period PROVIDED THAT the Tenant shall afford to the Landlord all

reasonable access to the Property and areas affected by such defects subject to the Landlord causing as little inconvenience to the Tenant as may in all the circumstances be practicable and making good all damage to any property of the Tenant or the Property caused during such entry and without prejudice to the generality of the foregoing the Landlord shall not be required to procure the making good of any defect which is attributable in whole or in part to the carrying out of any works carried out by or on behalf of the Tenant or to the effect of any such works or to the use and occupation of the Property by or on behalf of the Tenant.

#### INSURANCE

During the period when the Landlord's Works are being carried out the person responsible for procuring the carrying out of the Landlord's Works (the Landlord or the Tenant as the case may be) shall procure that the Landlord's Works are kept insured for their full reinstatement value and shall procure that the other party's interest is noted on such policy.

#### INTEREST

If any sum due to a party under this Agreement shall not be paid within 10 Working Days of the due date such sum shall bear interest at 4 per cent above the base rate from time to time of Barclays Bank PLC from the due date until payment (both before and after any judgment) provided this Clause shall not prejudice any other right or remedy for the recovery of such sum.

### LEASE GRANT

- The Lease shall be:
- 13.1 In the form set out in Schedule 2; and
- 13.2 Granted with full title guarantee.
- 14 The Landlord's solicitors shall prepare an engrossment of the Lease and a counterpart of it; and
- 14.1 The Tenant shall execute and deliver the counterpart of the Lease to the Landlord and the Landlord shall execute and deliver the Lease to the Tenant on the Completion Date;
- 14.2 The contractual term of the Lease shall be the term of years from and including the Completion Date to and including 23 October 2041;
- **14.3** The Principal Rent shall commence and be payable on the Completion Date and shall be:
- 14.3.1 From and including the Completion Date to but excluding the date five (5) months after the Completion Date: TWO HUNDRED AND EIGHTEEN THOUSAND FIVE HUNDRED AND EIGHTY POUNDS AND FIFTY PENCE (£218,580.50) per annum;
- 14.3.2 From and including the date five (5) months after the Completion Date to and including 23 October 2021: FOUR HUNDRED AND THIRTY SEVEN THOUSAND ONE HUNDRED AND SIXTY ONE POUNDS (£437,161.00) per annum;
- 14.4 The Principal Rent shall be reviewed in accordance with the provisions of the Lease on the Review Dates;
- 14.5 All other rents reserved by the Lease shall commence and be payable on and from the Completion Date;
- 14.6 The Tenant shall be entitled to break the Lease in accordance with the provisions of the Lease on any of the Break Dates;
- 14.7 The Lease shall be granted with the benefit of vacant possession;
- 14.8 The right of the Landlord to grant the Lease is accepted by the Tenant and the Landlord shall not be required to deduce title to the Property;
- 14.9 In the event that clause 5.1 applies on or before the Date of Practical Completion the Tenant shall provide to the Landlord evidence of compliance with all Required Permissions in respect of the Landlord's Works;
- 14.10 In the event that clause 5.2 applies on or before the Completion Date the Landlord shall provide to the Tenant evidence of compliance with all Required Permissions in respect of the Landlord's Works.

### ALIENATION

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THAT after the grant of the Lease the Tenant shall be entitled to assign the benefit of this Agreement to its successor or successors in title to the Lease and PROVIDED FURTHER THAT the Tenant shall have the same rights to relief from forfeiture as it would have if the Lease had already been granted and any dispute concerning this clause will be referred to arbitration in accordance with clause 20.

#### REPRESENTATIONS

Each of the parties to this Agreement acknowledges that it has not relied on any representation by or on behalf of any other party in entering into this Agreement apart from any written statement made by one party's solicitors to any other party's solicitors.

#### NOTICES

The provisions of Section 196 Law of Property Act 1925 as amended shall apply to any notice required to be served under this Agreement save that any notice to be served shall be addressed to such office as the recipient may have nominated in writing to the sender for that purpose or (if none) to its registered office.

#### MATTERS AFFECTING THE PROPERTY

- 18 The Property will be let subject to and where applicable with the benefit of:
- Any unregistered interests which override first registration under Schedule 1 of the 2002 Act and any unregistered interests which override registered dispositions under Schedule 3 of the 2002 Act;
- 18.2 All matters contained or referred to in the Property, Proprietorship and Charges registers of title BK102078 so far as the same affect the Property as at the date of this Agreement (except fixed and/or floating charges securing money or liabilities);
- 18.3 All local land charges whether registered or not before or after the date hereof and all matters capable of registration as local land charges whether or not actually so registered;
- 18.4 All notices, orders, resolutions, restrictions, agreements, directions and proposals thereon made by any local or other competent authority before or after the date hereof:
- 18.5 All covenants, conditions, rights, restrictions, encumbrances, exceptions, reservations and other matters to which the Property may for the time being be subject;
- **18.6** Those incumbrances mentioned in Standard Condition 3.1.2;
- 18.7 And the Tenant is deemed to take the Lease with full knowledge of the incumbrances referred to in Standard Condition 3.1.2 and this Clause 18.

### MERGER

19 Notwithstanding the grant of the Lease the provisions of this Agreement shall continue in full force and effect.

## DISPUTES

- If any difference, dispute or question shall at any time arise between the parties hereto it shall be referred to an arbitrator appointed by the parties jointly and in default of agreement as to the person to be appointed:
- 20.1 If such difference, dispute or question relates to the interpretation of this Agreement the arbitrator shall be a solicitor or a barrister appointed on the application of any party by the president for the time being of The Law Society;
- 20.2 If such, difference dispute or question relates to any other matter the arbitrator shall be a chartered surveyor appointed on the application of any party by the President; and such arbitrations shall be conducted in accordance with the Arbitration Act 1996.

### CONSTRUCTION (DESIGN AND MANAGEMENT) REGULATIONS 2015

- 21 The Landlord shall deliver to the Tenant as soon as it is prepared a copy of the Health and Safety file which complies with the Regulations; and
- 21.1 The Landlord shall (in respect of the Landlord's Works) procure the discharge of the duties of the Client (as defined in the Regulations);
- 21.2 For the purposes of the Regulations the Tenant confirms its approval of the appointments of the Contractor and the Consultants for the Landlord's Works.

### RENT SECURITY DEPOSIT DEED

- On the Completion Date:
- 22.1 The Tenant shall pay to the Landlord the sum of £262,296.60 to be held pursuant to the terms of the Rent Security Deposit Deed; and
- 22.2 The Landlord and the Tenant shall complete the Rent Security Deposit Deed.

### GOOD FAITH

The parties hereto shall act towards each other with the utmost good faith.

Any payment to be provided to a party to this Agreement is exclusive of VAT and the party which is required to make such payment shall in addition pay any VAT properly chargeable on the date such payment is due and the party making such supply on which VAT is payable shall provide a valid VAT invoice addressed to the party making such payment.

# CAPITAL ALLOWANCES

Any capital allowances relating to the Landlord's Works shall belong to the Landlord and the Tenant will not claim any capital allowances in respect of the Landlord's Works.

### ADDITIONAL ITEMS

The Landlord shall procure quotes from utilities providers for the upgrade of electricity, gas and water supplies to such standards (if any) as shall be agreed between the Landlord and the Tenant and shall promptly pass on any such quotes to the Tenant.

#### CONTRACTS (RIGHTS OF THIRD) PARTIES ACT 1999

Except as may be permitted under the law of England as it applies on the date of this Agreement the parties to this Agreement do not intend that any of its terms shall be enforceable by any third party.

#### JURISDICTION

This Agreement shall be governed by and construed in all respects in accordance with the law of England and the Landlord and the Tenant each submits to the exclusive jurisdiction of the English Courts.

#### **SCHEDULE 1**

#### (Landlord's Works)

#### Works to:

- 1 Replace warehouse roof;
- 2 Respray warehouse cladding, render of the office pod, repaint exterior windows, gutters and downpipes and resurface yard area

as more particularly described in the scope of works summary annexed.

### Scope of Works summary

## 1. Scope of works (Roof)

To supply and install the following materials for the construction of a new roof.

- · Strip off all asbestos roofing sheets.
- · Strip off all plasterboard liners.
- · New 120mm thick HPS200 insulated roof panels LPCB approved.
- · New Factory Assembled roof lights to 12% of the roof area.
- · Installation of roof penetrations and weather flashings for all existing roof protrusions
- · Molded head fixings with washer seals.
- · New .7mm thick HPS200 or HP200 plastisol flashings.
- · Weather proof foam fillers to ridge and eaves.

Scope of works is for a complete new roof (Strip and Re-sheet):

- · Safety Management of Project inclusive of Safety Audits
- · Safety Netting Costs
- · Debris Lining to all Safety Netting if premises occupied during works
- · Statically Charged Film to all Safety Netting if premises occupied during works
- · Safety Scaffolding Handrail Costs
- · Safety Access Scissor Lifts
- · Telescopic Handler
- · Crane Lifts Contract Lifts Full Insurance
- · Stripping off of Asbestos including all Asbestos Waste
- · Installation of 120mm composite roof
- · Gutter Joints Sealed on Existing Gutter
- · O& M Manuals
- · CDM Element of Project

### 2. Scope of works (General — cladding, render, paint, yard resurface)

## 1) Spray Paint to external wall cladding, gutters, window frames, down pipes and external fire escape enclosure.

- · Mask Off and protect all non affected areas.
- · Using pre-clean solution, clean all areas that require repair with lint free cloths
- · Where required, remove existing coating where traces of flaking are evident
- All dents and scratches are to be repaired with resin filler or similar. (Preparation to be in accordance with manufacturers guidelines)
- When cured and hardened sand down using the appropriate grade of refinishing papers. Wipe down with pre-clean to remove surface contamination prior to painting. Tack off using the appropriate tack rags.
- Apply LESONAL or equal and approved high build self-etch primer for high adhesion to bare metal. Apply LESONAL build up primer to overcome minor surface defects

- and ensure a sound substrate for the topcoat colour.
- Sand the surface using appropriate grade of paper, blow down and tack off using tack rags
- · Apply specified top coat
- Spray paint using 'Lechler Acryl 1K' paint, all external cladding areas including the guttering, fascia, down pipes, roller shutter doors, fire escape doors. Including all materials & access equipment as required. Wall cladding to be spray painted Metallic Silver RAL 9006 with downpipes, guttering & fascias etc painted Anthracite Grey RAL 7016. All to match units 36-38 Milton park
- · De mask and commission coating system

## 2) Proprietary External Through—Colour Render System

- · Surfaces are required to be clean, dry, sound and dimensionally stable and free from loose material efflorescence, mould and other contaminants. Remove all loose, flaking powdry, chalking or otherwise defective coatings.
- Treat surfaces affected by Moss, mould, lichen, etc with Permarock Moss and Mould remover.
- · Fit all Render corner and stop beads, UPVC render drip edge bead forming a base to the system. Corner profile PC00PL/M Bead or similar.
- Apply PermaRend or equal approved bedding mortar: High impact-resistant, water proof, water vapour permeable, polymer-modified cement based base-coat render incorporating selected graded aggregates.
- Apply PermRrend or equal approved reinforcing mesh for application to all areas of insulation with minimum 100mm overlaps at joints, Reinforcement stress patches measuring a minimum of 250x250mm must also be applied to all external angles such as window reveal/head junctions.
- Apply Permarock Putzgrund 610 bonding primer or similar. Pigmented special synthetic binder coating as basecoat under Permarock Thermosan NQG K-finish
- · Apply Permarock Thermosan NQG K-Finish or similar.
- · Colours to match units 36-36 Milton Park.
- · High level render to be 2500 Chalk Sample to be checked and approved before application
- · Low level render to be 041 Cream Sample to be checked and approved before application

#### 3) Paint application to existing UPVC Windows

- · To wash down and prepare all window surfaces.
- · Apply Zinsser Mould killer or similar approved in accordance with manufacturers' instructions. Allow to dry
- Apply 1no coat of Bulls Eye 1-2-3 Primer in accordance with manufacturers' instructions or similar allowing 1 hour in normal drying conditions
- · Apply 2No full coats of Zinsser Perma-white Exterior Satin paint allowing a drying time of 2hours between coats.
- · Application to all UPVC windows to the office pod. Also to paint all steel fire escape doors. Including all access equipment and materials
- Paint colour to be RAL 7016 to match units 36-38 Sample to be checked and approved by MEPC prior to application

#### 4) Tarmacadam to service yards front and rear

- To carry out all preparation, breaking up all loose base material to provide a consolidated sub base in accordance with the structural engineers design and approval.
- · All surfaces to be laid to falls incorporating existing drainage gulleys
- Over lay both concrete yards with 40mm thick tarmacadam (Maxiflex surface course) to match the other units within the 36-38 development.
- Apply tack coat to existing surface and lay new Tensar Glasstex P100 to cover all concrete expansion joints.
- · Car parking bays to be marked out in Thermoplastic paint.

# SCHEDULE 2

(Form of Lease)





DATED 2017

(1) MEPC MILTON PARK NO. 1 LIMITED AND MEPC MILTON PARK NO. 2 LIMITED

(2) ADAPTIMMUNE LIMITED

LEASE

relating to

39 Innovation Drive

Milton Park

BrookStreet des Roches LLP 25A Western Avenue, Milton Park, Abingdon, Oxfordshire, OX14 4SH

# PRESCRIBED CLAUSES

| LR1.   | Date of lease  | 2017  |
|--------|--|---|
| LR2.   | Title number(s)  | LR2.1 Landlord's title number(s)  |
|        |  | BK102078  |
|        |  | LR2.2 Other title number(s)   |
|        |  | ON122118, ON122717, ON130606, ON145942, ON146219, ON225380, ON38283, ON72772, ON96949, ON216090   |
| LR3.   | Parties to this lease  | Landlord  |
|        |  | MEPC MILTON PARK NO. 1 LIMITED (Company number 5491670) and MEPC MILTON PARK NO. 2 LIMITED (Company number 5491806), on behalf of MEPC Milton LP (LP No. LP14504), both of whose registered offices are at Lloyds Chambers 1 Portsoken Street London E1 8HZ |
|        |  | Tenant  |
|        |  | <b>ADAPTIMMUNE LIMITED</b> (Company number 6456741) whose registered office is at 101 Park Drive Milton Park Abingdon Oxfordshire OX14 4RY  |
|        |  | Other parties   |
| LR4.   | Property   | In the case of a conflict between this clause and the remainder of this lease then, for the purposes of registration, this clause shall prevail.  |
|        |  | 39 Innovation Drive, Milton Park, Abingdon, Oxfordshire, OX14 4RT shown edged red on the Plan with a gross internal floor area of 4,275 square metres (46,017 square feet) measured in accordance with the RICS Code of Measuring Practice (sixth edition)  |
| LR5.   | Prescribed Statements etc.   | None  |
| LR6.   | Term for which the Property is leased  | From and including [-](1)   |
|        |  | To and including 23 October 2041  |
| LR7.   | Premium  | None  |
| LR8.   | Prohibitions or restrictions on disposing of this lease  | This lease contains a provision that prohibits or restricts dispositions  |
| LR9.   | Rights of acquisition etc.   | LR9.1 Tenant's contractual rights to renew this lease, to acquire the reversion or another lease of the Property, or to acquire an interest in other land   |
|        |  | None  |
|        |  | LR9.2 Tenant's covenant to (or offer to) surrender this lease   |
|        |  | None  |
|        |  | LR9.3 Landlord's contractual rights to acquire this lease   |
|        |  | None  |
| LR10   | Restrictive covenants given in this lease by<br>the Landlord in respect of land other than<br>the Property | None  |
| (1) Pe | er agreement for lease   |   |

| LR11. Easements                                    | LR11.1 Easements granted by this lease for the benefit of the Property                                 |
|--|--|
|  | The easements specified in Part I of the First Schedule of this lease                                  |
|  | LR11.2 Easements granted or reserved by this lease over the Property for the benefit of other property |
|  | The easements specified in Part II of the First Schedule of this lease                                 |
| LR12. Estate rentcharge burdening the Property     | None   |
| LR13. Application for standard form of restriction | None   |
| LR14. Declaration of trust where there is more     | None   |

This lease made on the date and between the parties specified in the Prescribed Clauses Witnesses as follows:

#### 1 Definitions and Interpretation

In this lease unless the context otherwise requires:

than one person comprising the Tenant

#### 1.1 Definitions

Adjoining Property means any adjoining or neighbouring premises in which the Landlord or a Group Company of the Landlord holds or shall at any time during the Term hold a freehold or leasehold interest;

Agreement for Lease means the agreement dated [·] 2017 made between (1) MEPC Milton Park No. 1 Limited and MEPC Milton Park No. 2 Limited, on behalf of MEPC Milton LP, and (2) Adaptimmune Limited providing, inter alia, for the grant of this lease;

Base Rate means the base rate from time to time of Barclays Bank PLC or (if not available) such comparable rate of interest as the Landlord shall reasonably require;

Break Date 1 means the fifth (5th) anniversary of the date of commencement of the Contractual Term;

Break Date 2 means 24 October 2027;

Break Date 3 means 24 October 2031;

Break Date 4 means 24 October 2036;

Clearing Bank means a bank which is a shareholder in CHAPS Clearing Company Limited;

Common Control means that each of the companies concerned has 50% or more of its outstanding voting stock in the ownership of the same persons or companies;

Conduit means any existing or future media for the passage of substances or energy and any ancillary apparatus attached to them and any enclosures for them;

Contractual Term means the term specified in the Prescribed Clauses;

Encumbrances means the obligations and encumbrances (if any) specified in Part III of the First Schedule;

Estate means Milton Park, Abingdon, Oxfordshire (of which the Property forms part) and the buildings from time to time standing on it shown on the Plan together with any other adjoining land which is incorporated into Milton Park;

Estate Common Areas means the roads, accesses, landscaped areas, car parks, estate management offices and other areas or amenities on the Estate or outside the Estate but serving or otherwise benefiting the Estate as a whole which are from time to time provided or designated for the common amenity or benefit of the owners or occupiers of the Estate;

Estate Services means the services provided or procured by the Landlord in relation to the Estate as set out in Part II of the Fourth Schedule;

**Group Company** means a company which is a member of the same group of companies within the meaning of Section 42 of the 1954 Act or is within Common Control;

Guarantor means any party to this lease so named in the Prescribed Clauses (which in the case of an individual includes his personal representatives) and any guarantor of the obligations of the Tenant for the time being;

Indexation Review Dates means 24 October 2021 and 24 October 2031;

**Insurance Commencement Date** means [·];(2)

Insured Risks means fire, lightning, earthquake, explosion, terrorism, aircraft (other than hostile aircraft) and other aerial devices or articles dropped therefrom, riot, civil commotion, malicious damage, storm or tempest, bursting or overflowing of water tanks apparatus or pipes, flood and impact by road vehicles (to the extent that insurance against such risks may ordinarily be arranged with an insurer of good repute) and such other risks or insurance as may from time to time be reasonably required by the Landlord (subject in all cases to such usual exclusions and limitations as may be imposed by the insurers), and Insured Risk means any one of them;

(2) Per agreement for lease

Landlord's Surveyor means a suitably qualified person or firm appointed by the Landlord (including an employee of the Landlord or a Group Company) to perform the function of a surveyor for the purposes of this lease;

Lease Particulars means the descriptions and terms in the section headed Lease Particulars which form part of this lease insofar as they are not inconsistent with the other provisions of this lease;

Permitted Use means use within Class B1 of the 1987 Order

Plan means the plan or plans annexed to this lease;

Prescribed Clauses means the descriptions and terms in the section headed Prescribed Clauses which form part of this lease;

#### Principal Rent means:

From and including [·](3) to and including [·](4): TWO HUNDRED AND EIGHTEEN THOUSAND FIVE HUNDRED AND EIGHTY POUNDS AND FIFTY PENCE (£218,580.50) per annum;

From and including [·](5) to and including 23 October 2021: FOUR HUNDRED AND THIRTY SEVEN THOUSAND ONE HUNDRED AND SIXTY ONE POUNDS (£437,161.00) per annum;

subject to increase in accordance with the Second Schedule;

**Property** means the property described in the Prescribed Clauses and includes any part of it, any alteration or addition to the Property and any fixtures and fittings in or on the Property;

Quarter Days means 25 March, 24 June, 29 September and 25 December in every year and Quarter Day means any of them;

Rent Commencement Date means [·];(6)

Review Dates means 24 October 2026 and 24 October 2036;

Schedule of Condition means the schedule of condition to be prepared in accordance with the provisions of the Agreement for Lease.

Service Charge means the Service Charge set out in the Fourth Schedule;

Service Charge Commencement Date means [·];(7)

Tenant means the party to this lease so named in the Prescribed Clauses and includes its successors in title;

Term means the Contractual Term together with any continuation of the term or the tenancy (whether by statute, common law holding over or otherwise);

This lease means this lease and any document supplemental to it or entered into pursuant to it;

Uninsured Risks means an Insured Risk against which insurance is from time to time unobtainable on normal commercial terms in the London insurance market at reasonable commercial rates for a property equivalent in size, layout, type and location.

VAT means Value Added Tax and any similar tax substituted for it or levied in addition to it;

1954 Act means the Landlord and Tenant Act 1954;

1987 Order means the Town and Country Planning (Use Classes) Order 1987 (as originally made);

1995 Act means the Landlord and Tenant (Covenants) Act 1995;

2003 Order means The Regulatory Reform (Business Tenancies) (England and Wales) Order 2003.

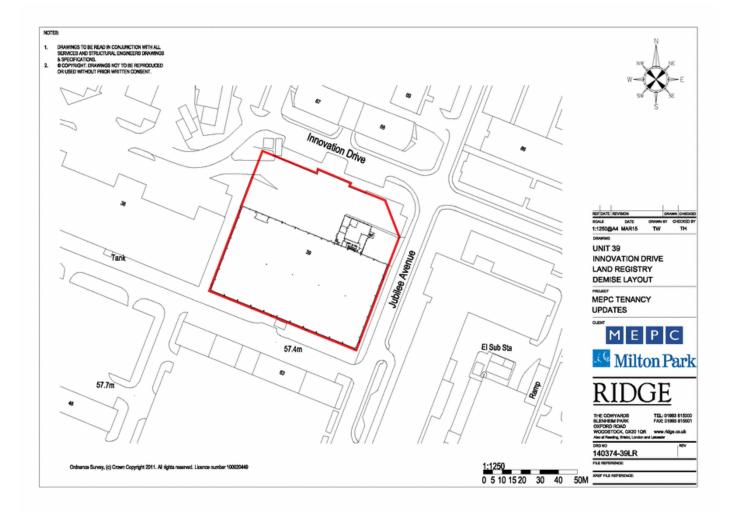
<sup>(3)</sup> Per agreement for lease

<sup>(4)</sup> Per agreement for lease

<sup>(5)</sup> Per agreement for lease

<sup>(6)</sup> Per agreement for lease

<sup>(7)</sup> Per agreement for lease





# 1.2 Interpretation

- 1.2.1 If the Landlord, Tenant or the Guarantor is more than one person then their covenants are joint and several;
- 1.2.2 Any reference to a statute includes any modification extension or re-enactment of it and any orders, regulations, directions, schemes and rules made under it;
- 1.2.3 Any covenant by the Tenant not to do any act or thing includes an obligation not knowingly to permit or suffer such act or thing to be done;
- 1.2.4 If the Landlord reserves rights of access or other rights over or in relation to the Property then those rights extend to persons authorised by it;
- 1.2.5 References to the act or default of the Tenant include acts or default or negligence of any undertenant or of anyone at the Property with the Tenant's or any undertenant's permission or sufferance;
- **1.2.6** The index and Clause headings in this lease are for ease of reference only;
- 1.2.7 References to the last year of the Term shall mean the twelve months ending on the expiration or earlier termination of the Term;
- 1.2.8 References to Costs include all liabilities, claims, demands, proceedings, damages, losses and proper and reasonable costs and expenses;
- 1.2.9 References to Principal Rent, Current Rent, Indexed Rent and Revised Rent are references to yearly sums.

### 2 Demise

The Landlord with Full Title Guarantee DEMISES the Property to the Tenant for the Contractual Term TOGETHER WITH the rights set out in Part I of the First Schedule, EXCEPT AND RESERVING as mentioned in Part II of the First Schedule and SUBJECT TO the Encumbrances;

### 3 Ren

The Tenant will pay by way of rent during the Term or until released pursuant to the 1995 Act without any deduction counterclaim or set off except where required by law.

- 3.1 The Principal Rent and any VAT by equal quarterly payments in advance on the Quarter Days to be paid by Direct Debit, Banker's Standing Order or other means as the Landlord requires, the first payment for the period from and including the Rent Commencement Date to (but excluding) the next Quarter Day to be made on the Rent Commencement Date:
- 3.2 The Service Charge and any VAT at the times and in the manner set out in the Fourth Schedule;
- **3.3** The following amounts and any VAT:

- 3.3.1 the sums specified in Clauses 4.1 [interest] and 4.2 [outgoings and utilities];
- **3.3.2** the sums specified in Clause 6.2.1 [insurance];
- 3.3.3 all Costs incurred by the Landlord as a result of any breach of the Tenant's covenants in this lease.

#### 4 Tenant's covenants

The Tenant covenants with the Landlord throughout the Term, or until released pursuant to the 1995 Act, as follows:

#### 4.1 Interest

If the Landlord does not receive any sum due to it within 14 days of the due date to pay on demand interest on such sum at 2 per cent above Base Rate from the due date until payment (both before and after any judgment), provided this Clause shall not prejudice any other right or remedy for the recovery of such sum;

## 4.2 Outgoings and Utilities

- 4.2.1 To pay all existing and future rates, taxes, charges, assessments and outgoings in respect of the Property (whether assessed or imposed on the owner or the occupier), except any tax (other than VAT) arising as a result of the receipt by the Landlord of the rents reserved by this lease and any tax arising on any dealing by the Landlord with its reversion to this lease;
- **4.2.2** To pay for all gas, electricity, water, telephone and other utilities used on the Property, and all charges in connection with such utilities and for meters and all standing charges, and a fair and reasonable proportion of any joint charges as determined by the Landlord's Surveyor;

#### 4.3 VAT

- **4.3.1** Any payment or other consideration to be provided to the Landlord is exclusive of VAT, and the Tenant shall in addition pay any VAT chargeable on the date the payment or other consideration is due;
- **4.3.2** Any obligation to reimburse or pay the Landlord's expenditure extends to irrecoverable VAT on that expenditure, and the Tenant shall also reimburse or pay such VAT:

#### 4.4 Repair

- 4.4.1 To keep the Property in good and substantial repair and condition (damage by the Uninsured Risks or by the Insured Risks excepted save to the extent that insurance moneys are irrecoverable as a result of the act or default of the Tenant) PROVIDED THAT nothing in this Lease shall oblige the Tenant to put the Property in any better state of repair or condition as that evidenced in the Schedule of Condition;
- **4.4.2** To make good any disrepair for which the Tenant is liable within 2 months after the date of written notice from the Landlord (or sooner if the Landlord reasonably requires);
- **4.4.3** If the Tenant fails to comply with any such notice the Landlord may enter and carry out the work and the cost shall be reimbursed by the Tenant on demand as a debt;
- 4.4.4 To enter into maintenance contracts with reputable contractors for the regular servicing of all plant and equipment serving only the Property;

## 4.5 Decoration

- **4.5.1** To clean, prepare and paint or treat and generally redecorate :
  - (i) all external parts of the Property in every third year and in the last year of the Term;
- **4.5.2** all internal parts of the Property in every fifth year and in the last year of the Term;
- **4.5.3** All the work described in Clause 4.5.1 is to be carried out:
  - (i) in a good and workmanlike manner to the Landlord's reasonable satisfaction; and
  - (ii) in colours which (if different from the existing colour) are first approved in writing by the Landlord (approval not to be unreasonably withheld or delayed);

## 4.6 Cleaning

- **4.6.1** To keep the Property clean, tidy and free from rubbish;
- **4.6.2** To clean the inside and outside of windows and any washable surfaces at the Property as often as reasonably necessary;

### 4.7 Overloading

Not to overload the floors, ceilings or structure of the Property or any plant machinery or electrical installation serving the Property;

# 4.8 Conduits

To keep the Conduits in or serving the Property clear and free from any noxious, harmful or deleterious substance, and to remove any obstruction and repair any damage to the Conduits as soon as reasonably practicable to the Landlord's reasonable satisfaction;

### 4.9 User

- **4.9.1** Not to use the Property otherwise than for the Permitted Use;
- **4.9.2** Not to use the Property for any purpose which is:

- (i) noisy, offensive, dangerous, illegal, immoral or an actionable nuisance; or
- (ii) which in the reasonable opinion of the Landlord causes damage or disturbance to the Landlord, or to owners or occupiers of any neighbouring property; or
- (iii) which involves any substance which may be harmful, polluting or contaminating other than in quantities which are normal for and used in connection with the Permitted Use provided that the use of the Property as laboratories shall not be taken to be a breach of this clause;

## 4.10 Signs

Not to erect any sign, notice or advertisement which is visible outside the Property without the Landlord's prior written consent;

#### 4.11 Alterations

- 4.11.1 Not to make any alterations or additions which:
  - affect the structural integrity of the Property (including without limitation the roofs and foundations and the principal or load-bearing walls, floors, beams and columns);
  - (ii) merge the Property with any adjoining premises;
  - (iii) affect the external appearance of the Property;
- 4.11.2 Not to make any other alterations or additions to the Property without the Landlord's written consent (which is not to be unreasonably withheld or delayed) save that the Tenant may install or demount internal, non-structural partitioning without the consent of the Landlord provided plans showing the extent of such works are deposited with the Landlord promptly on completion of the works;

### 4.12 Preservation of Easements

- **4.12.1** Not to prejudice the acquisition of any right of light for the benefit of the Property and to preserve all rights of light and other easements enjoyed by the Property;
- 4.12.2 Promptly to give the Landlord notice if any easement enjoyed by the Property is obstructed, or any new easement affecting the Property is made or attempted;

#### 4.13 Alienation

#### **4.13.1** Not to:

- (i) assign, charge, underlet or part with possession of the whole or part only of the Property nor to agree to do so except by an assignment or underletting or charging of the whole of the Property permitted by this Clause 4.13;
- (ii) share the possession or occupation of the whole or any part of the Property;
- (iii) assign, part with or share any of the benefits or burdens of this lease, or any interest derived from it by a virtual assignment or other similar arrangement;

## 4.13.2 Charging

Not to charge the whole of the Property without the Landlord's written consent (not to be unreasonably withheld or delayed).

# 4.13.3 Assignment

Not to assign or agree to assign the whole of the Property without the Landlord's written consent (not to be unreasonably withheld or delayed), provided that:

- (i) the Landlord may withhold consent in circumstances where in the reasonable opinion of the Landlord
  - (a) the proposed assignee is not of sufficient financial standing to enable it to comply with the Tenant's covenants in this lease; or
  - (b) such persons as the Landlord reasonably requires do not act as guarantors for the assignee and do not enter into direct covenants with the Landlord including the provisions set out in the Third Schedule (but referring in paragraph 1.2 to the assignee);
- (ii) the Landlord's consent shall in every case be subject to conditions (unless expressly excluded) requiring that:
  - the assignee covenants with the Landlord to pay the rents and observe and perform the Tenant's covenants in this lease during the residue of the Term, or until released pursuant to the 1995 Act;
  - (b) the Tenant enters into an authorised guarantee agreement guaranteeing the performance of the Tenant's covenants in this lease by the assignee including the provisions set out in paragraphs 1-5 (inclusive) of the Third Schedule (but omitting paragraph 1.2);
  - (c) all rent and other payments due under this lease are paid before completion of the assignment;

## 4.13.4 Underletting

Not to underlet or agree to underlet the whole of the Property nor vary the terms of any underlease without the Landlord's written consent (not to be unreasonably withheld or delayed). Any permitted underletting must comply with the following:

(i) the rent payable under the underlease must be:

- (a) not less than the rent reasonably obtainable in the open market for the Property without fine or premium;
- (b) payable no more than one quarter in advance;
- (c) subject to upward only reviews at intervals no less frequent than the rent reviews under this lease;
- (ii) the undertenant covenants with the Landlord and in the underlease:
  - (a) either:
    - to observe and perform the Tenant's covenants in this lease (except for payment of the rents) during the term of the underlease or until released pursuant to the 1995 Act; or
    - (II) to observe and perform the Tenant's covenants in the underlease during the term of the underlease or until released pursuant to the 1995 Act
  - (b) not to underlet, share or part with possession or occupation of the whole or any part of the underlet premises, nor to assign or charge part only of the underlet premises;
  - not to assign the whole of the underlet premises without the Landlord's prior written consent (which shall not be unreasonably withheld or delayed);
- (iii) all rents and other payments due under this lease (not the subject of a bona fide dispute) are paid before completion of the underletting;
- (iv) the underlease reserves as rent the Service Charge payable under this lease;
- (v) unless any underletting of the whole of the Property
  - (a) contains a covenant on the part of the undertenant to observe and perform the Tenant's covenants in this lease (except for payment of the rents) during the term of the underlease or until released pursuant to the 1995 Act; or
  - (b) is on terms obliging the undertenant to take a lease of the whole of the Property for the unexpired residue of the term of this lease (less one day) on the same terms as those contained in this lease (including as to rents and rent review) in the event of the immediate reversion to such underlease becoming vested in the Landlord

the underlease shall contain a break exercisable by the landlord on three (3) months' notice in the event of the immediate reversion thereto becoming vested in the Landlord:

- (vi) the underlease is in a form approved by the Landlord (such approval not to be unreasonably withheld or delayed)
- **4.13.5** To take all necessary steps and proceedings to remedy any breach of the covenants of the undertenant under the underlease and not to permit any reduction of the rent payable by any undertenant;

### 4.13.6 Group Sharing

Notwithstanding Clause 4.13.1 the Tenant may share occupation of the whole or any part of the Property with a Group Company PROVIDED THAT

- (a) the relationship of landlord and tenant is not created; and
- (b) occupation by any Group Company shall cease upon it ceasing to be a Group Company; and
- (c) the Tenant informs the Landlord in writing before each occupier commences occupation and after it ceases occupation;

### 4.14 Registration

Within 21 days to give to the Landlord's solicitors (or as the Landlord may direct) written notice of any assignment, charge, underlease or other devolution of the Property together with a certified copy of the relevant document and a reasonable registration fee of not less than £50;

## 4.15 Statutory Requirements and Notices

- **4.15.1** To supply the Landlord with a copy of any notice, order or certificate or proposal for any notice order or certificate affecting or capable of affecting the Property as soon as it is received by or comes to the notice of the Tenant;
- 4.15.2 To comply promptly with all notices served by any public, local or statutory authority, and with the requirements of any present or future statute or European Union law, regulation or directive (whether imposed on the owner or occupier), which affects the Property or its use;
- 4.15.3 At the request of the Landlord, but at the joint cost of the Landlord and the Tenant, to make or join the Landlord in making such objections or representations against or in respect of any such notice, order or certificate as the Landlord may reasonably require;
- **4.15.4** To observe and perform the obligations of any agreement entered into prior to the date of this lease under any statute or European Union law, regulation or directive so far as the same relates to the use and/or occupation of the Property;

## 4.16 Planning

- **4.16.1** Not to apply for or implement any planning permission affecting the Property without first obtaining the Landlord's written consent (not to be unreasonably withheld or delayed in cases where the subject matter of the planning permission has been approved by the Landlord pursuant to the other provisions of this lease);
- **4.16.2** If a planning permission is implemented the Tenant shall complete all the works permitted and comply with all the conditions imposed by the permission before the determination of the Term (including any works stipulated to be carried out by a date after the determination of the Term unless the Landlord requires

otherwise);

#### 4.17 Contaminants and Defects

- **4.17.1** To give the Landlord prompt written notice upon becoming aware of the existence of any defect in the Property, or of the existence of any contaminant, pollutant or harmful substance on the Property but not used in the ordinary course of the Tenant's use of the Property;
- **4.17.2** If so requested by the Landlord, to remove from the Property or remedy to the Landlord's reasonable satisfaction any such contaminant, pollutant or harmful substance introduced on the Property by or at the request of the Tenant;

## 4.18 Entry by Landlord

To permit the Landlord at all reasonable times and on reasonable notice (which shall not be less than 72 hours' notice except in emergency) to enter the Property in order to:

- **4.18.1** inspect and record the condition of the Property or the Adjoining Property;
- **4.18.2** remedy any breach of the Tenant's obligations under this lease;
- 4.18.3 repair, maintain, clean, alter, replace, install, add to or connect up to any Conduits which serve the Adjoining Property;
- **4.18.4** repair, maintain, alter or rebuild the Adjoining Property;
- **4.18.5** comply with any of its obligations under this lease;

Provided that the Landlord shall only exercise such rights where necessary and shall cause as little inconvenience as reasonably practicable in the exercise of such rights and shall promptly make good all physical damage to the Property caused by such entry;

#### 4.19 Landlord's Costs

To pay to the Landlord on demand amounts equal to such Costs as it may properly and reasonably incur:

- 4.19.1 in connection with any application for consent made necessary by this lease (including where consent is lawfully refused or the application is withdrawn);
- 4.19.2 incidental to or in reasonable contemplation of the preparation and service of a schedule of dilapidations (whether before or within three (3) months after the end of the Term) or a notice or proceedings under Section 146 or Section 147 of the Law of Property Act 1925 (even if forfeiture is avoided other than by relief granted by the Court);
- 4.19.3 in connection with the enforcement or remedying of any breach of the covenants in this lease on the part of the Tenant and any Guarantor;
- 4.19.4 incidental to or in reasonable contemplation of the preparation and service of any notice under Section 17 of the 1995 Act;

### 4.20 Yielding up

Immediately before the end of the Term:

- (i) to give up the Property repaired and decorated and otherwise in accordance with the Tenant's covenants in this lease;
- (ii) if the Landlord so requires, to remove all alterations made during the Term or any preceding period of occupation by the Tenant and reinstate the Property as the Landlord shall reasonably direct and to its reasonable satisfaction;
- (iii) to remove all signs, tenant's fixtures and fittings and other goods from the Property, and make good any damage caused thereby to the Landlord's reasonable satisfaction;
- (iv) to replace any damaged or missing Landlord's fixtures with ones of no less quality and value;
- (v) to replace all carpets with ones of no less quality and value than those in the Property at the start of the Contractual Term;
- (vi) to give to the Landlord all operating and maintenance manuals together with any health and safety files relating to the Property;
- (vii) to provide evidence of satisfactory condition and maintenance of plant and machinery including (without limitation) electrical installation condition reports in respect of all of the electrical circuits and supply equipment in the Property, and any other condition reports as required under any relevant statute or European Union law, regulation or directive and copies of all service records;
- (viii) to return any security cards or passes provided by the Landlord for use by the Tenant and its visitors.

## 4.21 Encumbrances

To perform and observe the Encumbrances so far as they relate to the Property.

# 4.22 Roads Etc

Not to obstruct the roads, pavements, footpaths and forecourt areas from time to time on the Estate in any way whatsoever and not to use any part of the forecourts and car parking spaces or other open parts of the Property for the purpose of storage or deposit of any materials, goods, container ships' pallets, refuse, waste scrap or any other material or matter.

### 4.23 Parking Restrictions

Except as to any right specifically granted in this lease not to permit any vehicles belonging to or calling upon the Tenant to stand on the roads, car parking spaces, forecourts, pavements or footpaths on the Estate.

## 4.24 Regulations etc

- **4.24.1** At all times during the Term to observe and perform such regulations (if any) in respect of the Estate as the Landlord may reasonably think expedient to the proper management of the Estate and which are notified to the Tenant.
- **4.24.2** Not to cause any obstruction to any part of the Estate.

### 4.25 Land Registration Provisions

- **4.25.1** Promptly following the grant of this lease the Tenant shall apply to register this lease at the Land Registry and shall ensure that any requisitions raised by the Land Registry in connection with that application are dealt with promptly and properly and within one month after completion of the registration, the Tenant shall send the Landlord official copies of its title;
- **4.25.2** Immediately after the end of the Term (and notwithstanding that the Term has ended), the Tenant shall make an application to close the registered title of this lease and shall ensure that any requisitions raised by the Land Registry in connection with that application are dealt with promptly and properly and the Tenant shall keep the Landlord informed of the progress and completion of its application.

## 5 Landlord's Covenants

#### 5.1 Quiet Enjoyment

The Landlord covenants with the Tenant that, the Tenant may peaceably enjoy the Property during the Term without any interruption by the Landlord or any person lawfully claiming under or in trust for it.

#### 5.2 Provision of Services

The Landlord will use its reasonable endeavours to provide or procure the provision of the Estate Services PROVIDED THAT the Landlord shall be entitled to withhold or vary the provision or procurement of such of the Estate Services as the Landlord considers necessary or appropriate in the interests of good estate management and PROVIDED FURTHER THAT the Landlord will not be in breach of this Clause as a result of any failure or interruption of any of the Estate Services:

- 5.2.1 resulting from circumstances beyond the Landlord's reasonable control, so long as the Landlord uses its reasonable endeavours to remedy the same as soon as reasonably practicable after becoming aware of such circumstances; or
- 5.2.2 to the extent that the Estate Services (or any of them) cannot reasonably be provided as a result of works of inspection, maintenance and repair or other works being carried out at the Property or the Estate.

#### 6 Insurance

#### 6.1 Landlord's insurance covenants

The Landlord covenants with the Tenant as follows:

- 6.1.1 To insure the Property (other than tenant's and trade fixtures and fittings) unless the insurance is invalidated in whole or in part by any act or default of the Tenant:
  - (i) with an insurance office or underwriters of repute;
  - (ii) against loss or damage by the Insured Risks;
  - (iii) subject to such excesses as may be imposed by the insurers;
  - (iv) in the full cost of reinstatement of the Property (in modern form if appropriate) including shoring up, demolition and site clearance, professional fees, VAT and allowance for building cost increases;
- 6.1.2 To insure against loss of the Principal Rent thereon payable or reasonably estimated by the Landlord to be payable under this lease arising from damage to the Property by the Insured Risks for three years or such longer period as the Landlord may reasonably require having regard to the likely period for reinstating the Property;
- 6.1.3 The Landlord will use its reasonable endeavours to procure that the insurer waives its rights of subrogation against the Tenant (so long as such provision is available in the London insurance
  - market) and to ensure that the Tenant's interest is noted on such policy (which may be by way of the policy providing for a general noting of the interests of tenants);
- **6.1.4** At the request and cost of the Tenant (but not more frequently than once in any twelve month period) to produce summary details of the terms of the insurance under this Clause 6.1;
- 6.1.5 To notify the Tenant as soon as becoming aware of any material change in the terms and conditions of the insurer in relation to the policy under which the Property is for the time being insured;
- 6.1.6 If the Property is destroyed or damaged by an Insured Risk, then, unless payment of the insurance moneys is refused in whole or part because of the act or default of the Tenant, and subject to obtaining all necessary planning and other consents to use the insurance proceeds (except those relating to loss of rent and fees) and any uninsured excess paid by the Tenant under Clause 6.2.4(ii) in reinstating the same (other than tenant's and trade fixtures and fittings) as quickly as reasonably practicable substantially as it was before the destruction or damage in modern form if appropriate but not necessarily identical in layout

# 6.2 Tenant's insurance covenants

The Tenant covenants with the Landlord from and including the Insurance Commencement Date and then throughout the Term or until released pursuant to the 1995

Act as follows:

- **6.2.1** To pay to the Landlord on demand sums equal to:
  - (i) the amount which the Landlord spends on insurance pursuant to Clause 6.1;
  - (ii) the cost of property owners' liability and third party liability insurance in connection with the Property;
  - (iii) the cost of any professional valuation of the Property properly required by the Landlord (but not more than once in any two year period);
- 6.2.2 To give the Landlord immediate written notice on becoming aware of any event or circumstance which might affect or lead to an insurance claim;
- **6.2.3** Not to do anything at the Property which would or might prejudice or invalidate the insurance of the Property or the Adjoining Property or cause any premium for their insurance to be increased:
- **6.2.4** To pay to the Landlord on demand:
  - (i) any increased premium and any Costs incurred by the Landlord as a result of a breach of Clause 6.2.3;
  - (ii) any uninsured excess to which the insurance policy may be subject;
  - (iii) the whole of the irrecoverable proportion of the insurance moneys if the Property or any part are destroyed or damaged by an Insured Risk but the insurance moneys are irrecoverable in whole or part due to the act or default of the Tenant;
- **6.2.5** To comply with the requirements and reasonable recommendations of the insurers;
- **6.2.6** To notify the Landlord of the full reinstatement cost of any fixtures and fittings installed at the Property at the cost of the Tenant which become Landlord's fixtures and fittings;
- **6.2.7** Not to effect any insurance of the Property against an Insured Risk but if the Tenant effects or has the benefit of any such insurance the Tenant shall hold any insurance moneys upon trust for the Landlord and pay the same to the Landlord as soon as practicable;

## 6.3 Suspension of Rent

If the Property is unfit for occupation and use because of damage by an Insured Risk then (save to the extent that payment of the loss of rent insurance moneys is refused due to the act or default of the Tenant) the Principal Rent (or a fair proportion according to the nature and extent of the damage) shall be suspended until the date on which the Property is again fit for occupation and use.

#### 6.4 Determination Right

6.4.1 If the Property is destroyed or damaged by an Insured Risk such that the Property is unfit for occupation and use and shall not be rendered fit for occupation and use within two years and nine months of the date of such damage then either the Landlord or the Tenant may whilst the Property has not been rendered fit for occupation and use terminate the Contractual Term by giving to the

other not less than three (3) months' previous notice in writing. PROVIDED THAT if the Property has been rendered fit for occupation and use within three years of the date of such damage then such notice shall be deemed not to have been given.

**6.4.2** Termination of this lease pursuant to the provisions of Clause 6.4.1 shall be without prejudice to the liability of either party for any antecedent breach of the covenants and conditions herein contained (save for Clause 6.1.6 which shall be deemed not to have applied).

### 6.5 Uninsured Risks

- **6.5.1** For the purposes of this Clause 6.5:
  - (i) These provisions shall apply from the date on which any Insured Risk becomes an Uninsured Risk but only in relation to the Uninsured Risk;
  - (ii) References to an Insured Risk becoming an Insured Risk shall, without limitation, include the application by insurers of an exclusion, condition or limitation to an Insured Risk to the extent to which such risk thereby is or becomes an Uninsured Risk.
  - (iii) The Landlord shall notify the Tenant in writing as soon as reasonably practicable after an Insured Risk becomes an Uninsured Risk.
- **6.5.2** If during the Term the Property (or part thereof) shall be damaged or destroyed by an Uninsured Risk so as to make the Property (or part thereof) unfit for occupation or use:
  - (i) The Principal Rent and the Service Charge or a fair proportion according to the nature and extent of the damage sustained will not be payable until the earlier of the date on which:
    - (a) The Property shall again be fit for occupation and use excluding fitting out and replacement of contents; or
    - (b) This lease shall be terminated in accordance with Clause 6.5.2(ii) or 6.5.5
  - (ii) The Landlord may within one year of the date of such damage or destruction serve notice on the Tenant confirming that it will reinstate the Property (a 'Reinstatement Notice') so that the Property shall be fit for occupation and use and if the Landlord fails to serve a Reinstatement Notice by the expiry of such prescribed period the lease will automatically end on the date one year after the date of such damage or destruction.
- 6.5.3 Clause 6.5.2(i) shall not apply if an Insured Risk shall have become an Uninsured Risk owing to the act or default of the Tenant or any person deriving title under the Tenant or their respective agents, employees, licensee, invitees or contractors.
- 6.5.4 If the Landlord shall have served a Reinstatement Notice the provisions of Clause 6.1.6 shall apply as if the damage had been caused by an Insured Risk
- 6.5.5 If the Landlord shall have served a Reinstatement Notice and such reinstatement has not been completed by the date two years and nine months of the date of

such damage at any time after that date the Landlord or the Tenant may terminate this lease by serving not less than three months' notice on the other stating that it terminates this lease, and if by the end of such notice the Property has been reinstated so that the Property is fit for occupation and use the notice shall be void and this lease shall continue in full force and effect.

6.5.6 Service of a Reinstatement Notice shall not oblige the Landlord to replace any Tenant's fitting out works or property belonging to the Tenant or any third party.

#### 7 Provisos

## 7.1 Forfeiture

If any of the following events occur:

- 7.1.1 the Tenant fails to pay any of the rents payable under this lease within 21 days of the due date (whether or not formally demanded); or
- 7.1.2 the Tenant or Guarantor breaches any of its obligations in this lease; or
- 7.1.3 the Tenant or Guarantor being a company incorporated within the United Kingdom
  - (i) has an Administration Order made in respect of it; or
  - (ii) passes a resolution, or the Court makes an Order, for the winding up of the Tenant or the Guarantor, otherwise than a member's voluntary winding up of a solvent company for the purpose of amalgamation or reconstruction previously consented to by the Landlord (consent not to be unreasonably withheld); or
  - (iii) has a receiver or administrative receiver or receiver and manager appointed over the whole or any part of its assets or undertaking; or
  - (iv) is struck off the Register of Companies; or
  - (v) is deemed unable to pay its debts within the meaning of Section 123 of the Insolvency Act 1986; or
- **7.1.4** proceedings or events analogous to those described in Clause 7.1.3 shall be instituted or shall occur where the Tenant or Guarantor is a company incorporated outside the United Kingdom; or
- 7.1.5 the Tenant or Guarantor being an individual:
  - (i) has a bankruptcy order made against him; or
  - (ii) appears to be unable to pay his debts within the meaning of Section 268 of the Insolvency Act 1986;

then the Landlord may re-enter the Property or any part of the Property in the name of the whole and forfeit this lease and the Term created by this lease shall immediately end, but without prejudice to the rights of either party against the other in respect of any breach of the obligations contained in this lease;

### 7.2 Notices

- 7.2.1 All notices under or in connection with this lease shall be given in writing
- 7.2.2 Any such notice shall be duly and validly served if it is served (in the case of a company) to its registered office or (in the case of an individual) to his last known address;
- **7.2.3** Any such notice shall be deemed to be given when it is:
  - (i) personally delivered to the locations listed in Clause 7.2.2; or
  - (ii) sent by registered post, in which case service shall be deemed to occur on the third Working Day after posting.

# 7.3 No Implied Easements

The grant of this lease does not confer any rights over the Estate or the Adjoining Property or any other property except those mentioned in Part I of the First Schedule, and Section 62 of the Law of Property Act 1925 is excluded from this lease;

### 8 Break Clause

- 8.1 The Tenant may terminate the Contractual Term on Break Date 1 or Break Date 2 or Break Date 3 or Break Date 4 by giving to the Landlord not less than twelve (12) months' previous notice in writing;
- 8.2 Any notice given by the Tenant shall operate to terminate the Contractual Term only if:
  - 8.2.1 the Principal Rent reserved by this lease have been paid by the time of such termination; and
  - 8.2.2 the Tenant yields up the Property free from any subleases and other third party occupational interests on termination; and
  - 8.2.3 (if notice is given to terminate the Contractual Term on Break Date 1) a sum equal to six (6) months' worth of the Principal Rent for the time being payable (calculated at the rate payable immediately before Break Date 1) together with a sum equal to VAT thereon at the standard rate for the time being payable has been paid to the Landlord in cleared funds by Break Date 1;
- 8.3 Upon termination the Contractual Term shall cease but without prejudice to any claim in respect of any prior breach of the obligations contained in this lease;
- 8.4 If the Tenant terminates this Lease in accordance with this clause 8 the Landlord shall promptly reimburse the Tenant in respect of any sums received which relate to a period following termination of this Lease.

- **8.5** Time shall be of the essence for the purposes of this Clause.
- 9 Contracts (Rights of Third Parties) Act 1999

A person who is not a party to this lease has no right under the Contracts (Rights of Third Parties) Act 1999 to enforce any terms of this lease.

#### 10 Environmental Conditions

For the purposes of this clause the expression 'Environment' includes air, man-made structures and surface or substrata any surface water or ground water, any life form (including human) or eco system and notwithstanding any other provisions of this Lease to the extent that the Property or Estate are affected by contamination or pollution, the Environment or the presence of any substance harmful to the Environment present or occurring prior to this Lease otherwise than through the act or default of the Tenant or any party under their control (an 'Environmental Condition') the Tenant shall not:

- 10.1 be responsible for (or contribute to whether by Service Charge or otherwise) any management compliance with statutory requirements, clean up, remediation or containment of any such Environmental Condition; nor
- 10.2 be responsible to repair any damage disrepair or injury caused by or arising from any Environmental Condition; nor
- 10.3 be responsible to contribute to any cost, fine or liability of any kind arising out of or in any way connected with any Environmental Condition.

Executed by the parties as a Deed on the date specified in the Prescribed Clauses.

#### The First Schedule

## Part I - Easements and Other Rights granted

There are granted to the Tenant (in common with others authorised by the Landlord)

- 1 The right to use the relevant Estate Common Areas for access to and from the Property and for all purposes for which they are designed;
- Free and uninterrupted use of all existing and future Conduits which serve the Property, subject to the Landlord's rights to re-route the same subject to there being no unreasonable interruption of services;
- 3 The right to enter the Adjoining Property excluding any buildings which are occupied as necessary to perform Clause 4.4 [repair] on reasonable prior written notice to the Landlord, subject to causing as little inconvenience as practicable and complying with conditions reasonably imposed by the Landlord and making good all physical damage caused.(8)

### Part II - Exceptions and Reservations

There are excepted and reserved to the Landlord:

- The right to carry out any building, rebuilding, alteration or other works to the Estate and the Adjoining Property (including the erection of scaffolding) notwithstanding any temporary interference with light and air enjoyed by the Property but provided that the Tenant's use and enjoyment of the Property is not materially compromised;
- 2 Free and uninterrupted use of all existing and future Conduits which are in the Property and serve the Estate or the Adjoining Property;
- 3 Rights of entry on the Property as referred to in Clause 4.18;
- 4 The right to regulate and control in a reasonable manner the use of the Estate Common Areas;
- The right to alter the layout of the roads forecourts footpaths pavements and car parking areas from time to time on the Estate in such manner as the Landlord may reasonably require PROVIDED THAT such alterations do not materially diminish the Tenant's rights under this lease and that such works do not materially compromise the Tenant's access to the Property;
- The right in the last six months of the Term to view the Property with prospective tenants upon giving reasonable notice (not to be less than 72 hours) and the right throughout the Term to view the Property with prospective purchasers upon giving reasonable notice (not to be less than 72 hours).

### Part III - Encumbrances

| The covenants declarations and other matters affecting the Property contained or referred to in the Landlord's freehold reversionary title number BK | C102078 as at the date of |
|--|---------------------------|
| this lease   |                           |

(8) Parking = within demise

### The Second Schedule

### Part I - Indexation Rent Review

- In this Part of this Schedule:
- 1.1 Indexation Review Date means each of the Indexation Review Dates and Relevant Indexation Review Date shall be interpreted accordingly;
- 1.2 Current Rent means the Principal Rent payable under this lease immediately before the Relevant Indexation Review Date;

- 1.3 Index means the Consumer Prices Index published by the Office for National Statistics or (if not available) such index of comparative prices as the Landlord shall reasonably require;
   1.4 Indexed Rent means:

   Current Rent multiplied by (A/B) per annum where:
  - A = The figure shown in the Index for the month immediately before the Relevant Indexation Review Date; and
  - B = (In the case of the first Indexation Review Date) the figure shown in the Index for [September 2017](9) and (in the case of the subsequent Indexation Review Date) the figure shown in the Index for September 2026.
- 1.5 Revised Rent means the new Principal Rent following each Indexation Review Date pursuant to paragraph 2 of the Second Schedule.
- The Principal Rent shall be reviewed on each Indexation Review Date to the higher of:
- 2.1 the Current Rent (disregarding any suspension or abatement of the Principal Rent); and
- 2.2 the Indexed Rent ascertained in accordance with this lease;
- 3 If a Revised Rent has not been ascertained by the Relevant Indexation Review Date:
- 3.1 the Current Rent shall continue to be payable until the Revised Rent is ascertained;
- 3.2 when the Revised Rent is ascertained:
  - 3.2.1 the Tenant shall pay within 14 days of ascertainment of the Revised Rent:
    - (i) any difference between the Principal Rent payable immediately before the Relevant Indexation Review Date and the Principal Rent which would have been payable had the Revised Rent been ascertained on the Relevant Indexation Review Date (the **Balancing Payment**); and
    - (ii) interest on the Balancing Payment at Base Rate from the date or dates when the Balancing Payment or the relevant part or parts would have been payable had the Revised Rent been ascertained on the Relevant Indexation Review Date;
  - 3.2.2 the Landlord and Tenant shall sign and exchange a memorandum recording the amount of the Revised Rent.
- 4 Time shall not be of the essence for the purposes of this Schedule.
- (9) To be month prior to date of lease.

### Part II — Rent Review

- 1 In this Part of this Schedule:
- 1.1 Review Date means each of the Review Dates and Relevant Review Date shall be interpreted accordingly;
- 1.2 Rack Rental Value means the annual rent (exclusive of VAT) at which the Property might reasonably be expected to be let in the open market at the Relevant Review Date

## ASSUMING

- 1.2.1 the letting is on the same terms as those contained in this lease but subject to the following qualifications:
  - (i) the term shall commence on the Relevant Review Date and be for a term equal to the unexpired residue of the Term;
  - (ii) the amount of the Principal Rent shall be disregarded, but it shall be assumed that the Principal Rent is subject to review every five (5) years to the Rack Rental Value:
- 1.2.2 the Property is available to let as a whole, with vacant possession, by a willing landlord to a willing tenant, without premium;
- 1.2.3 the Property is ready, fit and available for immediate occupation and use for the Permitted Use;
- 1.2.4 all the obligations on the part of the Tenant contained in this lease have been fully performed and observed;
- 1.2.5 no work has been carried out to the Property which has reduced the rental value of the Property;
- 1.2.6 if the whole or any part of the Property has been destroyed or damaged it has been fully reinstated;
- 1.2.7 that there is no alternative basis in the hypothetical lease for the assessment of rent on review other than for assessment of the Rack Rental Value;
- 1.2.8 that the works referred to in the agreement for the grant of this lease have been carried out and completed at the Landlord's sole expense;

# BUT DISREGARDING

- 1.2.9 any goodwill attached to the Property by reason of any business carried on there;
- 1.2.10 any effect on rent of the fact that any Tenant and any undertenant is or has been in occupation of the Property;
- 1.2.11 any effect on rent of any improvements at the Property made with the Landlord's consent by the Tenant or any undertenant, except improvements carried out pursuant to an obligation to the Landlord or at the expense of the Landlord;

PROVIDED THAT the Rack Rental Value shall be that which would be payable after the expiry of any rent free period or concessionary rent period for fitting out (or the receipt of any contribution to fitting out works or other inducement in lieu thereof) which might be given on a letting of the Property, so that no discount reduction or allowance is made to reflect (or compensate the tenant for the absence of) any such rent free or concessionary rent period or contribution or other inducement;

- 1.3 Revised Rent means the new Principal Rent following each Review Date pursuant to paragraph 2 of the Second Schedule.
- 1.4 Expert means a surveyor (who shall be a Fellow of the Royal Institution of Chartered Surveyors with at least ten (10) years experience in the letting and valuation of premises of a similar nature to and situate in the same region as the Property) agreed between the Landlord and the Tenant, or in the absence of agreement nominated on the application of either party by the President for the time being of the Royal Institution of Chartered Surveyors.
- The Principal Rent shall be reviewed on each Review Date to the higher of:
- 2.1 the Principal Rent payable immediately before the Relevant Review Date (disregarding any suspension or abatement of the Principal Rent); and
- 2.2 the Rack Rental Value on the Relevant Review Date agreed or determined in accordance with this lease.
- 3 The Rack Rental Value at any Review Date shall be:
- 3.1 agreed in writing between the Landlord and the Tenant; or
- 3.2 determined by an Expert (acting as an expert) on the application of either Landlord or Tenant at any time after the Relevant Review Date;
- 4 In the case of determination by an Expert:
- 4.1 the Expert will be instructed to afford the Landlord and the Tenant the opportunity to make written representations to him and comment upon written representations received by him;
- 4.2 if an Expert dies, refuses to act or becomes incapable of acting, or if he fails to notify the parties of his determination within 2 months after receiving the last submission delivered to him, either the Landlord or the Tenant may apply to the President to discharge him and appoint another in his place;
- 4.3 the fees and expenses of the Expert and any VAT thereon shall be paid by the Landlord and the Tenant in such shares as the Expert shall decide (or in equal shares if the Expert does not decide this point); if one party pays all the Expert's fees and expenses, the paying party may recover the other's share from the other party, in the case of the Landlord as arrears of rent.
- 5 If a Revised Rent is not agreed or determined by the Relevant Review Date:
- 5.1 the Principal Rent payable immediately before the Relevant Review Date shall continue to be payable until the Revised Rent is ascertained;
- **5.2** when the Revised Rent is ascertained:
  - **5.2.1** the Tenant shall pay within 14 days of ascertainment:
    - (i) any difference between the Principal Rent payable immediately before the Relevant Review Date and the Principal Rent which would have been payable had the Revised Rent been ascertained on the Relevant Review Date (the **Balancing Payment**); and
    - (ii) interest on the Balancing Payment at Base Rate from the date or dates when the Balancing Payment or the relevant part or parts would have been payable had the Revised Rent been ascertained on the Relevant Review Date;
  - 5.2.2 the Landlord and Tenant shall sign and exchange a memorandum recording the agreed amount of the Revised Rent.
- 6 Time shall not be of the essence for the purposes of this Schedule.

## The Third Schedule

## Guarantee

- 1 The Guarantor covenants with the Landlord as principal debtor:
- 1.1 that throughout the Term or until the Tenant is released from its covenants pursuant to the 1995 Act:
  - 1.1.1 The Tenant will pay the rents reserved by and perform its obligations contained in this lease;
  - 1.1.2 The Guarantor will indemnify the Landlord on demand against all Costs arising from any default of the Tenant in paying the rents and performing its obligations under this lease;
- 1.2 the Tenant [(here meaning the Tenant so named in the Prescribed Clauses)] will perform its obligations under any authorised guarantee agreement that it gives with respect to the performance of any of the covenants and conditions in this lease.
- The liability of the Guarantor shall not be affected by:
- 2.1 Any time given to the Tenant or any failure by the Landlord to enforce compliance with the Tenant's covenants and obligations;
- 2.2 The Landlord's refusal to accept rent at a time when it would or might have been entitled to re-enter the Property;
- **2.3** Any variation of the terms of this lease;
- 2.4 Any change in the constitution, structure or powers of the Guarantor the Tenant or the Landlord or the administration, liquidation or bankruptcy of the Tenant or

Guarantor;

- 2.5 Any act which is beyond the powers of the Tenant;
- **2.6** The surrender of part of the Property;
- 3 Where two or more persons have guaranteed obligations of the Tenant the release of one or more of them shall not release the others.
- 4 The Guarantor shall not be entitled to participate in any security held by the Landlord in respect of the Tenant's obligations or stand in the Landlord's place in respect of such security.
- If this lease is disclaimed, and if the Landlord within 6 months of the disclaimer requires in writing the Guarantor will enter into a new lease of the Property at the cost of the Guarantor on the terms of this lease (but as if this lease had continued and so that any outstanding matters relating to rent review or otherwise shall be determined as between the Landlord and the Guarantor) for the residue of the Contractual Term from and with effect from the date of the disclaimer.
- 6 If this lease is forfeited and if the Landlord within 6 months of the forfeiture requires in writing the Guarantor will (at the option of the Landlord):
- 6.1 enter into a new lease as in paragraph 5 above with effect from the date of the forfeiture; or
- pay to the Landlord on demand an amount equal to the moneys which would otherwise have been payable under this lease until the earlier of 6 months after the forfeiture and the date on which the Property is fully relet.

## The Fourth Schedule Service Charge Part I - Calculation and payment of the Service Charge

- 1 In this Schedule unless the context otherwise requires:
- 1.1 Accounting Date means 31 December in each year or such other date as the Landlord notifies in writing to the Tenant from time to time;
- 1.2 Accounting Year means the period from but excluding one Accounting Date to and including the next Accounting Date;
- 1.3 Estimated Service Charge means the Landlord's Surveyor's reasonable and proper estimate of the Service Charge for the Accounting Year notified in writing to the Tenant from time to time;
- 1.4 Service Cost means all reasonable and proper costs and expenses paid or incurred by the Landlord in relation to the provision of the Estate Services (including irrecoverable VAT);
- **1.5 Tenant's Share** means a fair and reasonable proportion of the Service Cost.
- The Service Charge shall be the Tenant's Share of the Service Cost in respect of each Accounting Year, and if only part of an Accounting Year falls within the Term the Service Charge shall be the Tenant's Share of the Service Cost in respect of the relevant Accounting Period divided by 365 and multiplied by the number of days of the Accounting Year within the Term.
- 3 The Landlord shall have the right to adjust the Tenant's Share from time to time to make reasonable allowances for differences in the services provided to or enjoyable by the other occupiers of the Estate.
- The Tenant shall pay the Estimated Service Charge for each Accounting Year to the Landlord in advance by equal instalments on the Quarter Days, (the first payment for the period from and including the Service Charge Commencement Date to (but excluding) the next Quarter Day after the Service Charge Commencement Date to be made on the Service Charge Commencement Date); and
- 4.1 If the Landlord's Surveyor does not notify an estimate of the Service Charge for any Accounting Year the Estimated Service Charge for the preceding Accounting Year shall apply; and
- 4.2 Any adjustment to the Estimated Service Charge after the start of an Accounting Year shall adjust the payments on the following Quarter Days equally.
- As soon as practicable after the end of each Accounting Year the Landlord shall serve on the Tenant a summary of the Service Cost and a statement of the Service Charge certified by the Landlord's Surveyor which shall be conclusive (save in the case of manifest error).
- The difference between the Service Charge and the Estimated Service Charge for any Accounting Year (or part) shall be paid by the Tenant to the Landlord within fourteen days of the date of the statement for the Accounting Year, or allowed against the next Estimated Service Charge payment, or after the expiry of the Term refunded to the Tenant.
- The Tenant shall be entitled by appointment within a reasonable time following service of the Service Charge statement to inspect the accounts maintained by the Landlord and the Landlord's Surveyor relating to the Service Cost and supporting vouchers and receipts at such location as the Landlord reasonably directs.
- 8 For the avoidance of doubt any cost charged as a Service Cost in respect of any element of the Estate Services shall not be charged as a Service Cost in respect of any other head of charge under which charges are made for services by the Landlord.

### Part II - Estate Services

In relation to the Estate the provision of the following services or the Costs incurred in relation to:

## 1 The Common Areas

Repairing, maintaining and (where appropriate) cleaning, lighting and (as necessary) altering renewing, rebuilding and reinstating the Estate Common Areas.

2 Conduits

The repair, maintenance and cleaning and (as necessary) replacement and renewal of all Conduits within the Estate Common Areas.

## 3 Plant and machinery

Hiring, operating, inspecting, servicing, overhauling, repairing, maintaining, cleaning, lighting and (as necessary) renewing or replacing any plant, machinery, apparatus and equipment from time to time within the Estate Common Areas or used for the provision of services to the Estate and the supply of all fuel and electricity for the same and any necessary maintenance contracts and insurance in respect thereof.

#### 4 Sign

Maintaining and (where appropriate) cleaning and lighting and (as necessary) renewing and replacing the signboards, all directional signs, fire regulation notices, advertisements, bollards, roundabouts and similar apparatus or works.

#### 5 Landscaping

Maintaining, tending and cultivating and (as necessary) re-stocking any garden or grassed areas including replacing plants, shrubs and trees as necessary.

#### 6 Common facilities

Repairing maintaining and (as necessary) rebuilding as the case may be any party walls or fences, party structures, Conduits or other amenities and easements which may belong to or be capable of being used or enjoyed by the Estate in common with any land or buildings adjoining or neighbouring the Estate.

#### 7 Security

Installation, operation, maintenance, repair, replacement and renewal of closed circuit television systems and other security systems.

#### 8 Outgoings

Any existing and future rates, taxes, charges, assessments and outgoings in respect of the Estate Common Areas or any part of them except tax (other than VAT) payable in respect of any dealing with or any receipt of income in respect of the Estate Common Areas.

#### 9 Transport

The provision of a bus service to and from Didcot or such other transport and/or location (if any) deemed necessary by the Landlord.

#### 10 Statutory requirements

The cost of carrying out any further works (after the initial construction in accordance with statutory requirements) to the Estate Common Areas required to comply with any statute.

#### 11 Management and Staff

- 11.1 The proper and reasonable fees, costs, charges, expenses and disbursements (including irrecoverable VAT) of any person properly employed or retained by the Landlord for or in connection with surveying or accounting functions or the performance of the Estate Services and any other duties in and about the Estate relating to the general management, administration, security, maintenance, protection and cleanliness of the Estate:
- 11.2 Management costs fees and disbursements in respect of the Estate of 10% of the Service Cost (excluding costs under this clause 11.2).
- 11.3 Providing staff in connection with the Estate Services and the general management, operation and security of the Estate and all other incidental expenditure including but not limited to:
  - 11.3.1 salaries, National Health Insurance, pension and other payments contributions and benefits;
  - 11.3.2 uniforms, special clothing, tools and other materials for the proper performance of the duties of any such staff;
  - 11.3.3 providing premises and accommodation and other facilities for staff.

# 12 Enforcement of Regulations

The reasonable and proper costs and expenses incurred by the Landlord in enforcing the rules and regulations from time to time made pursuant to Clause 4.24 provided that the Landlord shall use all reasonable endeavours to recover such costs and expenses from the defaulting party and provided further that there shall be credited against the Service Cost any such costs recovered.

## 13 Insurances

- 13.1 Effecting such insurances (if any) as the Landlord may properly think fit in respect of the Estate Common Areas the plant, machinery, apparatus and equipment used in connection with the provision of the Estate Services (including without prejudice those referred to in paragraph 3 above) and any other liability of the Landlord to any person in respect of those items or in respect of the Estate Services.
- 13.2 Professional valuations for insurance purposes (but not more than once in any two year period);
- 13.3 Any uninsured excesses to which the Landlord's insurance may be subject.

### 14 Generally

Any reasonable and proper costs (not referred to above) which the Landlord may incur in providing such other services and in carrying out such other works as the Landlord may reasonably consider to be reasonably desirable or necessary for the benefit of occupiers of the Estate.

## 15 Anticipated Expenditure

|   | Establishing and maintaining reserves to meet the future costs (as from t  | ime to time estimated by the Landlord's Surveyor) of providing the Estate Services;                   |  |  |
|---|--|---|--|--|
| 16  | Borrowing  |   |  |  |
|   | The costs of borrowing any sums required for the provision of the Estate loaned by the Landlord or a Group Company of the Landlord interest at | e Services at normal commercial rates available in the open market or if any such sums are Base Rate. |  |  |
| 17  | VAT  |   |  |  |
|   | Irrecoverable VAT on any of the foregoing.   |   |  |  |
| EXE(  | CUTED AS A DEED by <b>MEPC MILTON PARK NO. 1 LIMITED</b> g by a director and the company secretary or by two directors                         | }   |  |  |
| Direc   | tor  |   |  |  |
| Direc   | tor/Company Secretary  |   |  |  |
| EXECUTED AS A DEED by MEPC MILTON PARK NO. 2 LIMITED acting by a director and the company secretary or by two directors |  | }   |  |  |
| Direc   | tor  |   |  |  |
| Direc   | tor/Company Secretary  |   |  |  |
| EXEC  | CUTED as a DEED by <b>ADAPTIMMUNE LIMITED</b> acting by  | }   |  |  |
| A director in the presence of:  |  | J   |  |  |
|   |  | Director  |  |  |
| Witne   | ess Name:  |   |  |  |
| Addre   | ess:   |   |  |  |
| Эссиј   | pation:  |   |  |  |
|   | s  | CHEDULE 3   |  |  |
| (Form of Rent Security Deposit Deed)  |  |   |  |  |
|   |  |   |  |  |
| BROOK   |  |   |  |  |





DATED 2017

(1) MEPC MILTON PARK NO. 1 LIMITED AND MEPC MILTON PARK NO. 2 LIMITED

(2) ADAPTIMMUNE LIMITED

## RENT SECURITY DEPOSIT DEED

relating to

39 Innovation Drive

Milton Park

+44 [0] 1235 836600 BSDR.COM DX 144160 ABINGDON 4 BrookStreet des Roches LLP

25A Western Avenue, Milton Park, Abingdon, Oxfordshire, OX14 4SH AN MEPC ASSET

#### Rent Security Deposit Deed

#### **Dated**

The Landlord MEPC MILTON PARK NO. 1 LIMITED (Company number 5491670) and MEPC MILTON PARK NO. 2 LIMITED (Company number

5491806), on behalf of MEPC Milton LP (LP No. LP14504), both of whose registered offices are at Lloyds Chambers 1 Portsoken Street London

E1 8HZ

The Tenant ADAPTIMMUNE LIMITED (Company number 6456741) whose registered office is at 101 Park Drive Milton Park Abingdon Oxfordshire OX14

4RY

The Lease

Date [·]

Parties (1) The Landlord

(2) The Tenant

Property 39 Innovation Drive Milton Park, Abingdon, Oxfordshire OX14 4RT

**Term** From and including [·] to and including 23 October 2041

- 1 In this Deed the following expressions shall have the following meanings:
- 1.1 the Landlord and the Tenant mean the parties to this Deed respectively referred to above by those names and (where the context so admits) shall include their successors in title;
- 1.2 the Lease means the document or documents of which short particulars are set out above under the heading "the Lease" and includes all documents supplemental thereto;
- 1.3 the **Property** means the property to be demised by the Lease;
- 1.4 the Deposit means the moneys referred to in Clause 2 below together with any interest credited to the Deposit Account by virtue of the proviso to Clause 5 below;
- 1.5 the Deposit Account means the deposit account at the Bank in the name of the Landlord or of a managing agent acting on behalf of the Landlord;
- 1.6 the Bank means the London Clearing Bank where the Deposit Account is from time to time held;
- 1.7 Minimum Amount means a sum equal to 6 months' worth of the Principal Rent (as defined in the Lease and as payable for the time being) plus a sum equal to VAT at the standard rate payable as at the commencement date of the Lease;
- 1.8 Working Day means any day except Saturdays, Sundays and bank, public and statutory holidays
- 2 The Landlord hereby acknowledges receipt of the sum of £262,296.60;
- The Tenant hereby charges and agrees to charge all its interest in the Deposit to the Landlord as security for the due performance and observance of the covenants agreements and conditions on the part of the Tenant under the Lease and all losses which the Landlord may incur by reason of or consequent upon any breach of those covenants agreements and conditions and (without prejudice to the generality of the foregoing) as more particularly provided in Clause 6 below.
- The Landlord shall place the Deposit at the Bank in the Deposit Account on seven days' notice of withdrawal until repayment of the Deposit in accordance with the terms of Clause 8 below.
- Any interest earned on the Deposit (or if any sums have been withdrawn from the Deposit pursuant to Clause 6, the balance thereof) after deduction of tax shall belong to the Tenant and for any period in which the Deposit has not been repaid to the Tenant the Landlord will arrange for any such interest (after deduction of tax) to be paid to the Tenant or to the Tenant by direct credit to the Tenant to such bank account as the Tenant shall from time to time advise the Landlord in writing.

- The Landlord and Tenant hereby agree that without prejudice to any right or remedy which the Landlord may have under the Lease the Landlord shall be entitled to withdraw from the Deposit from time to time the sums specified below which shall thereupon become the absolute property of the Landlord:
- 6.1 if any sum (whether rent or otherwise) is due to the Landlord from the Tenant and unpaid for a period of fourteen days: the amount of that sum,
- 6.2 if the Landlord suffers any loss or damage as the result of any material breach of any covenant agreement or condition on the part of the Tenant under the Lease: the amount of that loss or damage,
- 6.3 if the Lease is determined otherwise than by agreement before the expiration of the term granted by the Lease or if the Lease is forfeited or disclaimed by any liquidator or trustee in bankruptcy of the Tenant: the whole or that proportion of the Deposit as is reasonably necessary to compensate the Landlord for its loss but the Landlord will return the balance of the Deposit (if any) to the Tenant as soon as reasonably practicable after the Landlord shall have ascertained the full extent of its loss.

**Provided** that the Landlord shall notify the Tenant in writing within fourteen days of any withdrawal of any sum from the Deposit and the reason for such withdrawal and (if the Lease is still subsisting) the Tenant hereby covenants to reinstate to the Deposit the amount required to ensure that the Deposit is equal to the Minimum Amount within a further fourteen days from the date of such notification being received by the Tenant.

- 7 It is hereby agreed between the parties:
- 7.1 that the existence of the Deposit shall not prejudice the Landlord's ability to proceed against the Tenant for any breach of any covenant, agreement or condition on the part of the Tenant under the Lease or entitle the Tenant to withhold any moneys or fail to perform any covenant agreement or condition under the Lease and the Deposit shall not be regarded as an advance payment of rent;
- 7.2 that if the Landlord transfers the reversion to the Lease the benefit of this Deed shall be assignable to the transferee of the reversion to whom the Deposit shall be transferred AND if the benefit is so assigned and the Deposit so transferred the Landlord shall procure that the transferee will covenant at its sole expense with the Tenant in the same terms as this Deed as if the transferee had executed this Deed as Landlord and the Tenant will subject to being indemnified for all costs arising therefrom execute and deliver to the Landlord a deed releasing the Landlord from any further liability under the terms of this Deed.
- 8 The Deposit or such part thereof as shall be remaining shall be repaid to the Tenant when:
- 8.1 The period of 5 years from the commencement of the Contractual Term shall have expired and during that period the Tenant has not;
  - **8.1.1** been in arrears of the Principal Rent for longer than 5 Working Days; OR
  - **8.1.2** been in arrears of the Principal Rent on more than 2 separate occasions.

OR

- **8.2** the:
  - **8.2.1** term granted by the Lease shall have expired or been determined earlier by agreement;

OR

8.2.2 the Lease shall have been lawfully assigned with the consent of the Landlord in accordance with the terms of the Lease;

And the Landlord will in all cases be entitled to retain from the Deposit such proportion of the Deposit as may reasonably be necessary to make good any default provided that in the case of repayment of the Deposit following a lawful assignment any such default has accrued prior to the date of the lawful assignment.

- The Tenant HEREBY FURTHER COVENANTS with the Landlord that in the event of the level of the Principal Rent (as defined in the Lease) being increased at any time during the term the Tenant shall forthwith pay to the credit of the Deposit Account an additional sum of such amount that the Deposit shall (after such payment is made) again be equal to the Minimum Amount.
- 10 A person who is not a party to this Deed has no right under the Contracts (Rights of Third Parties) Act 1999 to enforce any term of this Deed.
- 11 This Agreement shall be governed by and construed in all respects in accordance with the law of England and the Landlord and the Tenant each submits to the exclusive jurisdiction of the English Courts.

In witness whereof this document has been executed as a Deed the day and year first before written.

EXECUTED AS A DEED by **MEPC MILTON PARK NO. 1 LIMITED** acting by a director and the company secretary or by two directors

Director

Director/Company Secretary

|                                    |  | J                             |               |
|------------------------------------|--|-------------------------------|---------------|
| Director                           |  |                               |               |
| Director/Company S                 | Secretary  |                               |               |
|                                    |  |                               |               |
| EXECUTED as a D                    | EED by ADAPTIMMUNE LIMITED acting by                   | }                             |               |
| A director in the pre              | esence of  | J                             |               |
| A director in the pre              | selice of.   |                               |               |
|                                    |  | Director                      |               |
| Witness Name:                      |  | <del></del>                   |               |
|                                    |  |                               |               |
| Address:                           |  |                               |               |
| Occupation:                        |  |                               |               |
|                                    |  |                               |               |
|                                    |  | Schedule 4                    |               |
|                                    | (For   | m of Licence for Alterations) |               |
|                                    |  |                               |               |
| BROOK<br>STREET                    |  |                               | MILTON        |
| DES                                |  |                               | MILTON        |
| DES<br>ROCHES                      | S  |                               | Truck.        |
|                                    | _  |                               |               |
| DATED                              | 2017   |                               |               |
| (1) MEPC MILTO:<br>(2) ADAPTIMMU   | N PARK NO. 1 LIMITED AND MEPC MILTON PAI<br>NE LIMITED | RK NO. 2 LIMITED              |               |
| LICENCE TO ALT                     | ER   |                               |               |
| relating to                        |  |                               |               |
| 39 Innovation Drive<br>Milton Park | ,  |                               |               |
| B:                                 | 44 (0) 1235 836600<br>SDR.COM<br>X 144160 ABINGDON 4   |                               | AN MEPC ASSET |

EXECUTED AS A DEED by **MEPC MILTON PARK NO. 2 LIMITED** acting by a director and the company secretary or by two directors

BrookStreet des Roches LLP 25A Western Avenue, Milton Park, Abingdon, Oxfordshire, OX14 4SH

#### Tenant

Dated 2017

The Landlord MEPC MILTON PARK NO. 1 LIMITED (Company number 5491670) and MEPC MILTON PARK NO. 2 LIMITED (Company number

5491806), on behalf of MEPC Milton LP (LP No. LP14504), both of whose registered offices are at Lloyds Chambers 1 Portsoken Street London

E1 8H2

The Tenant ADAPTIMMUNE LIMITED (Company number 6456741) whose registered office is at 101 Park Drive Milton Park Abingdon Oxfordshire OX14

4RY

The Lease

Date [·]

Parties (1) The Landlord

(2) The Tenant

Property 39 Innovation Drive, Milton Park, Abingdon, Oxfordshire OX14 4RT

Term [·]

- 1 In this Deed the following expressions shall have the following meanings:
- 1.1 the Landlord and the Tenant mean the parties to this Deed respectively above referred to by those names and shall include their respective successors in title;
- 1.2 the Lease means the document or documents of which short particulars are set out above under the heading "The Lease" and includes all documents supplemental thereto:
- 1.3 the **Property** means the property demised by the Lease;
- 1.4 the Works means the works shortly described in the Schedule hereto;
- 1.5 the term means the term of the Lease together with any continuation thereof or of the tenancy (whether under an Act of Parliament or by the Tenant holding over or for any other reason).
- 2 Where the Tenant is more than one person the covenants by such persons herein contained are joint and several.
- 3.1 The Landlord is entitled to the Property in reversion immediately expectant upon the term.
- 3.2 The Tenant is entitled to the Property for the residue of the term.
- 4 The Landlord HEREBY GRANTS CONSENT to the Tenant to carry out the Works in and upon the Property.
- 5 The Tenant HEREBY COVENANTS with the Landlord:
- **5.1** before commencing the Works:
  - 5.1.1 at the expense of the Tenant to obtain all such licences consents and permissions as may be required by law and in particular but without prejudice to the generality thereof to obtain all consents and permissions as may be required under the Town and Country Planning Acts for the time being in force and all regulations and orders made thereunder;
  - 5.1.2 to produce to the Landlord and obtain the Landlord's written acknowledgement that all such licences consents and permissions are satisfactory to the Landlord but so that the Landlord may refuse to express its satisfaction with any of the said licences consents or permissions on the ground (*inter alia*) that the period thereof or anything contained therein or omitted therefrom would in the reasonable opinion of the Landlord be or be likely to be prejudicial to the interests of the Landlord or give rise to adverse financial or taxation consequences upon the Landlord whether during the term or following the expiration thereof;
  - 5.1.3 to communicate particulars of the Works to the company or underwriters with which the insurance of the Property is maintained or to the Landlord (if so requested) and if requested to obtain the written consent of such company or underwriters to the carrying out of the Works and within seven days of obtaining the same to produce such consent to the Landlord and at all times hereafter to pay on demand any additional premium which may be required by the said company or underwriters in respect of the insurance of the Property and any other adjoining or neighbouring premises as a result of the Works being carried out.
  - 5.1.4 to give such information to the Landlord as may be reasonably required by the Landlord that the covenants on the part of the Tenant herein contained have been satisfactorily complied with;
- 5.2 that the Tenant having decided to carry out the Works the Tenant will carry out the Works at the sole expense of the Tenant in a proper and workmanlike manner and using good quality materials of their several kinds to the satisfaction of the Landlord and in a manner which shall not constitute any nuisance or annoyance to the Landlord or the tenants owners or occupiers of any adjoining or neighbouring premises and in compliance with the provisions of all relevant Acts of Parliament or European Community Law Regulation or Directive and any orders or regulations made thereunder and to complete the same in manner aforesaid within eighteen months from the date hereof;
- 5.3 to notify the Landlord immediately upon commencement and completion of the Works;
- 5.4 to indemnify and keep the Landlord indemnified against all liability howsoever caused arising out of the execution of the Works and in the exercise or purported exercise of the rights hereby granted and to make good any damage caused to any adjoining or neighbouring premises to the satisfaction of the Landlord;

Property is maintained against any third party;

- 5.6 to permit the Landlord (or its Surveyors) at all reasonable times to inspect the progress of the Works and the quality of the materials and workmanship used therein;
- 5.7 if so required by the Landlord:
  - **5.7.1** by the expiration or sooner determination of the term; or
  - 5.7.2 if the Works have not been completed in accordance with this Deed within eighteen months of the date hereof; or
  - 5.7.3 in the event of any material breach by the Tenant of the terms of this Deed

at the cost of the Tenant forthwith to dismantle and remove the Works and to reinstate and make good the Property in such manner as the Landlord shall direct and to the Landlord's satisfaction such reinstatement to be carried out on the same terms (*mutatis mutandis*) as are stipulated in this Deed with respect to the carrying out of the Works in the first place (including as to consents, inspection and otherwise) AND it shall be the duty of the Tenant to enquire in writing of the Landlord six months before the expiration of the contractual term of the Lease whether the Landlord requires reinstatement pursuant to this Clause.

6 It is HEREBY DECLARED:

A director in the presence of:

- 6.1 that this Licence is granted subject to the rights of the owners, lessees and occupiers of all adjoining and neighbouring premises and other interested persons;
- that during the execution of the Works and when the same shall have been completed all the covenants on the part of the Tenant herein contained shall be incorporated in the Lease and the terms and conditions of the Lease as varied by this Deed shall apply to the Property as altered in pursuance of this Deed and the power of re-entry contained in the Lease shall be construed and have effect accordingly;
- that the Landlord and its agents make no representation as to the quality adequacy or safety of the design or method of construction of the Works or the quality of the materials to be used and the Tenant acknowledges that the Tenant relies entirely on the skill and judgement of its own advisers and contractors;
- that upon any review of the rent payable under the Lease neither the granting of this Licence nor anything herein contained nor the carrying out of the Works shall cause the value of the reviewed rent to be less than that which would have been obtained if this Licence had not been granted and the Works had not been carried out;
- that nothing in this licence shall release or in any way lessen the liability of the Tenant to the Landlord under the covenants and conditions contained in the Lease or constitute a waiver of any outstanding breach;
- 6.6 A person who is not a party to this Licence has no right under the Contracts (Rights of Third Parties) Act 1999 to enforce any term of this Licence.

In witness whereof this document has been executed as a Deed the day and year first before written.

|  | Schedule<br>The Works |  |
|--|-----------------------|--|
| EXECUTED AS A DEED by <b>MEPC MILTON PARK NO. 1 LIMITED</b> acting by a director and the company secretary or by two directors | }                     |  |
| Director   |                       |  |
| Director/Company Secretary   |                       |  |
| EXECUTED AS A DEED by <b>MEPC MILTON PARK NO. 2 LIMITED</b> acting by a director and the company secretary or by two directors | }                     |  |
| Director   |                       |  |
| Director/Company Secretary   |                       |  |

|  | Director         |  |  |  |  |  |
|--|------------------|--|--|--|--|--|
|  |                  |  |  |  |  |  |
| Witness Name:  |                  |  |  |  |  |  |
| Address:   |                  |  |  |  |  |  |
| Occupation:  |                  |  |  |  |  |  |
|  |                  |  |  |  |  |  |
| AS WITNESS the hands of duly authorised officers of the parties hereto the day and year first hereinbefore written |                  |  |  |  |  |  |
| SIGNED for and on behalf of MEPC MILTON PARK NO. 1 LIMITED   | l                |  |  |  |  |  |
| Director/Authorised Signatory  | /s/ Nick Randall |  |  |  |  |  |
| SIGNED for and on behalf of MEPC MILTON PARK NO. 2 LIMITED   | }                |  |  |  |  |  |
| Director/Authorised Signatory  | /s/ Nick Randall |  |  |  |  |  |
| SIGNED for and on behalf of ADAPTIMMUNE LIMITED  | } ,,,,           |  |  |  |  |  |
| Director/Authorised Signatory  | /s/ James Noble  |  |  |  |  |  |

# Form of Certification Required by Rule 13a-14(a) or 15d-14(a) under the Securities Exchange Act of 1934 as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002

I, James Noble, certify that:

- 1. I have reviewed this quarterly report on Form 10-Q of Adaptimmune Therapeutics plc;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial
  condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)), for the registrant and have:
  - a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - b. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter that has materially affected or is reasonably likely to materially affect the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - a. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - b. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: August 3, 2017

/s/ James Noble

James Noble

Chief Executive Officer

# Form of Certification Required by Rule 13a-14(a) or 15d-14(a) under the Securities Exchange Act of 1934 as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002

#### I, Adrian Rawcliffe, certify that:

- 1. I have reviewed this quarterly report on Form 10-Q of Adaptimmune Therapeutics plc;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial
  condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)), for the registrant and have:
  - a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - b. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter that has materially affected or is reasonably likely to materially affect the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - a. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - b. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: August 3, 2017

/s/ Adrian Rawcliffe
Adrian Rawcliffe
Chief Financial Officer

#### **Section 906 Certificate**

# Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002

Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (subsections (a) and (b) of Section 1350, Chapter 63 of Title 18, United States Code), I, James Noble, Chief Executive Officer of Adaptimmune Therapeutics plc, a public limited company incorporated under English law (the "Company"), hereby certify, to my knowledge, that:

- 1. The Company's Quarterly Report on Form 10-Q for the quarterly period ended June 30, 2017, to which this Certification is attached as Exhibit 32.1 (the "Quarterly Report") fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- 2. The information contained in the Quarterly Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: August 3, 2017

/s/ James Noble James Noble Chief Executive Officer

#### **Section 906 Certificate**

# Certification Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002

Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (subsections (a) and (b) of Section 1350, Chapter 63 of Title 18, United States Code), I, Adrian Rawcliffe, Chief Financial Officer of Adaptimmune Therapeutics plc, a public limited company incorporated under English law (the "Company"), hereby certify, to my knowledge, that:

- 1. The Company's Quarterly Report on Form 10-Q for the quarterly period ended June 30, 2017, to which this Certification is attached as Exhibit 32.2 (the "Quarterly Report") fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- 2. The information contained in the Quarterly Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: August 3, 2017

/s/ Adrian Rawcliffe Adrian Rawcliffe Chief Financial Officer