UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 8-K

Current Report Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): April 22, 2016

ADAPTIMMUNE THERAPEUTICS PLC

(Exact name of registrant as specified in its charter)

1-37368 (Commission File Number) Not Applicable (IRS Employer Identification No.)

England and Wales (State or other jurisdiction of incorporation)

> 101 Park Drive, Milton Park Abingdon, Oxfordshire OX14 4RY

United Kingdom (Address of principal executive offices, including zip code)

(44) 1235 430000

(Registrant's telephone number, including area code)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

□ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

□ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

□ Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

□ Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Item 7.01 Regulation FD Disclosure.

As previously announced, Adaptimmune Therapeutics plc (the "Company") will give a live audio webcast today, April 22, 2016, in conjunction with its Investor and Analyst Day 2016. The webcast will include a slide presentation, which is attached as Exhibit 99.1 to this Current Report on Form 8-K and is incorporated by reference in this Item 7.01.

The live audio webcast and the accompanying slide presentation will be available through the investor section of the Company's website at http://ir.adaptimmune.com. The information contained on the Company's website is not part of this Form 8-K and is not incorporated by reference into this Form 8-K.

Item 8.01 Other Events.

On April 22, 2016, the Company issued a press release announcing the appointment of leading immunology, immunotherapy and oncology experts from across the United States and Europe to its newly formed scientific advisory board (SAB). The SAB will serve as a strategic resource for the Company and help to steer the Company's development efforts in the field of immuno-oncology. The press release is attached as Exhibit 99.2 hereto and is incorporated by reference herein.

On April 22, 2016, the Company issued a press release announcing that the Company has adopted the name SPEAR T-cells[™] (Specific Peptide Enhanced Affinity Receptor T-cells) to describe its proprietary technology. The press release is attached as Exhibit 99.3 hereto and is incorporated by reference herein.

The information contained in Exhibit 99.1, Exhibit 99.2 and Exhibit 99.3 hereto shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liabilities of that section, nor shall it be deemed incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Exchange Act, except as expressly set forth by specific reference in such a filing, regardless of any general incorporation language in any such filing, unless the Company expressly sets forth in such filing that such information is to be considered "filed" or incorporated by reference therein.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits. The following exhibits are furnished as part of this Report on Form 8-K:

Exhibit No.	Description of Exhibit
99.1	Slide presentation to be presented at the Adaptimmune Investor and Analyst Day 2016 on April 22, 2016 (furnished pursuant to Item 7.01).
99.2	Press Release regarding SAB dated April 22, 2016.
99.3	Press Release regarding SPEAR T-cells TM dated April 22, 2016.

SIGNATURES

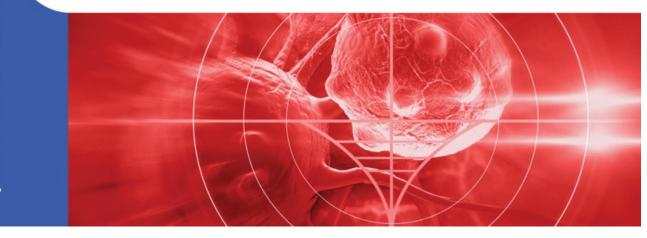
Pursuant to the requirements of the Securities Exchange Act of 1934, as amended, the registrant has duly caused this report to be signed on its behalf by the undersigned, hereunto duly authorized.

ADAPTIMMUNE THERAPEUTICS PLC

Date: April 22, 2016 By: /s/ Margaret Henry Name: Margaret Henry Title: Corporate Secretary 3 Exhibit Index Description of Exhibit Exhibit No. Slide presentation to be presented at the Adaptimmune Investor and Analyst Day 2016 on April 22, 2016 (furnished pursuant to Item 7.01). 99.1 99.2 Press Release regarding SAB dated April 22, 2016. Press Release regarding SPEAR T-cellsTM dated April 22, 2016. 99.3

APRIL 22, 2016





DISCLAIMER

This presentation contains "forward-looking statements," as that term is defined under the Private Securities Litigation Reform Act of 1995 (PSLRA), which statements may be identified by words such as "believe," "may", "will," "estimate," "continue," "anticipate," "intend," "expect" and other words of similar meaning. These forward-looking statements involve certain risks and uncertainties. Such risks and uncertainties could cause our actual results to differ materially from those indicated by such forward-looking statements, and include, without limitation: the success, cost and timing of our product development activities and clinical trials; our ability to submit an IND and successfully advance our technology platform to improve the safety and effectiveness of our existing TCR therapeutic candidates; the rate and degree of market acceptance of T-cell therapy generally and of our TCR therapeutic candidates; government regulation and approval, including, but not limited to, the expected regulatory approval timelines for TCR therapeutic candidates; and our ability to protect our proprietary technology and enforce our intellectual property rights; amongst others. For a further description of the risks and uncertainties that could cause our actual results to differ materially from those expressed in these forward-looking statements, as well as risks relating to our business in general, we refer you to our Annual Report on Form 20-F filed with the Securities and Exchange Commission (SEC) on October 13, 2015 and our other SEC filings.

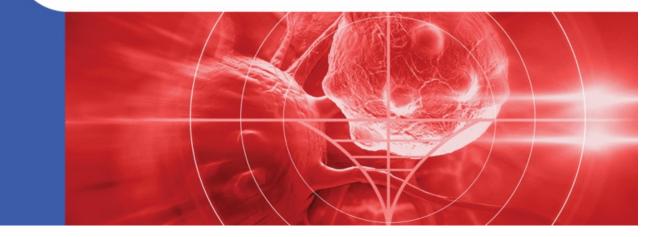
We urge you to consider these factors carefully in evaluating the forward-looking statements herein and are cautioned not to place undue reliance on such forward-looking statements, which are qualified in their entirety by this cautionary statement. The forward-looking statements contained in this presentation speak only as of the date the statements were made and we do not undertake any obligation to update such forward-looking statements to reflect subsequent events or circumstances. We intend that all forward-looking statements be subject to the safe-harbor provisions of the PSLRA.



APRIL 22, 2016

James Noble Chief Executive Officer





TODAY'S AGENDA



The Role of T Cells in the Immuno-Oncology Landscape Helen Tayton-Martin, PhD, MBA; Chief Operating Officer, Adaptimmune



SPEAR T Cells™: Adaptimmune's Proprietary Technology Platform Bent Jakobsen, PhD; Scientific Founder, Adaptimmune



Adoptive T Cell Therapy: Clinical Activity of NY-ESO-1 in a Solid Tumor Stephan Grupp, MD, PhD; U.Penn Perelman School of Medicine



NY-ESO-1 T Cell therapy in Multiple Myeloma: Long Term Efficacy and Persistence Aaron Rapoport, MD; U.Md Marlene & Stuart Greenebaum School of Medicine



Update on Progress with NY-ESO TCR Accelerating Adaptimmune's Wholly-Owned Clinical Pipeline *Rafael Amado, MD; Chief Medical Officer, Adaptimmune*



The Adaptimmune Pipeline Engine Manufacturing Excellence and Commercial Delivery *Gwen Binder-Scholl, PhD; Chief Technology Officer, Adaptimmune*

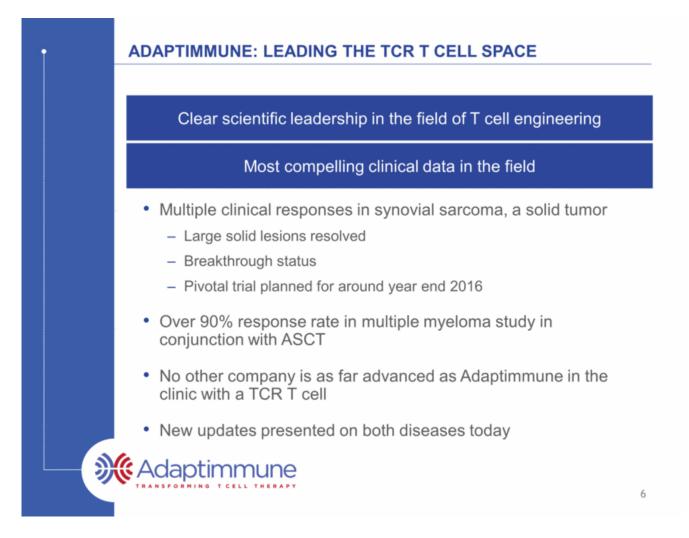
Adaptimmune

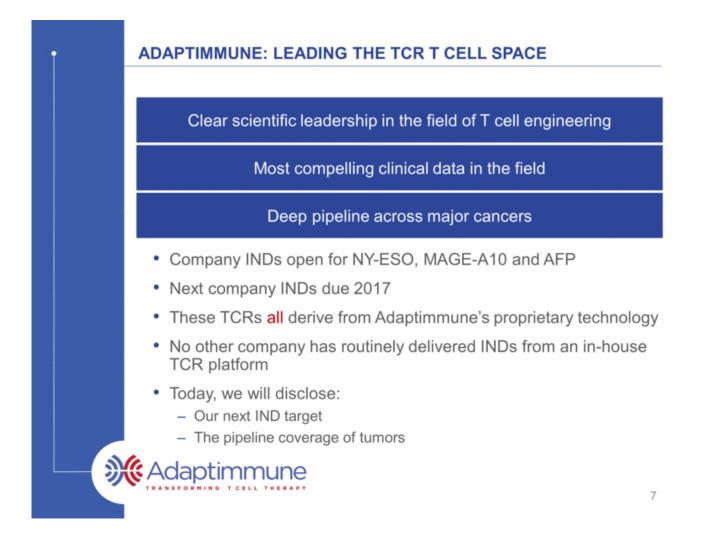
ADAPTIMMUNE: LEADING THE TCR T CELL SPACE

Clear scientific leadership in the field of T cell engineering

- Proprietary SPEAR T cell technology uniquely delivers:
 - Correctly identified targets
 - Specificity and optimal affinity
 - "Supra-natural" TCRs to accelerate programs
 - Enhanced effectiveness of TCRs
 - Generation 2 and 3 TCRs
- No other company can currently deliver all of these
- New data on the above are being presented today







ADAPTIMMUNE: LEADING THE TCR T CELL SPACE

Clear scientific leadership in the field of T cell engineering

Most compelling clinical data in the field

Deep pipeline across major cancers

Strong financial position

• Current capital can fund the business through mid-2018



ADAPTIMMUNE: LEADING THE TCR T CELL SPACE

Clear scientific leadership in the field of T cell engineering

Most compelling clinical data in the field

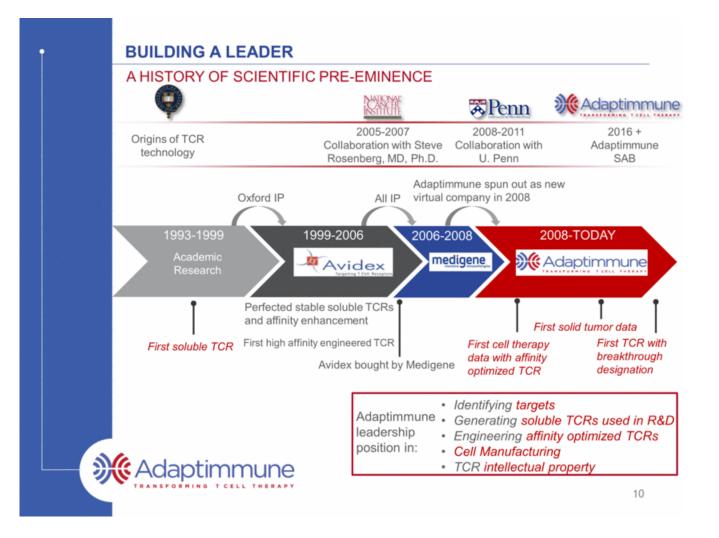
Deep pipeline across major cancers

Strong financial position

Proven ability to execute

- Three INDs open
- Manufacturing processes optimized
- Goal: first TCR T cell therapy to market

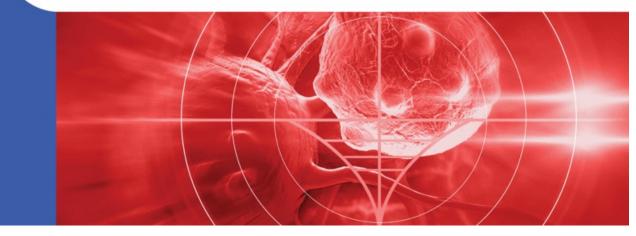




THE ROLE OF T CELLS IN THE IMMUNO-ONCOLOGY LANDSCAPE APRIL 22, 2016

Helen Tayton-Martin, PhD, MBA Chief Operating Officer





WHY IMMUNOTHERAPY?

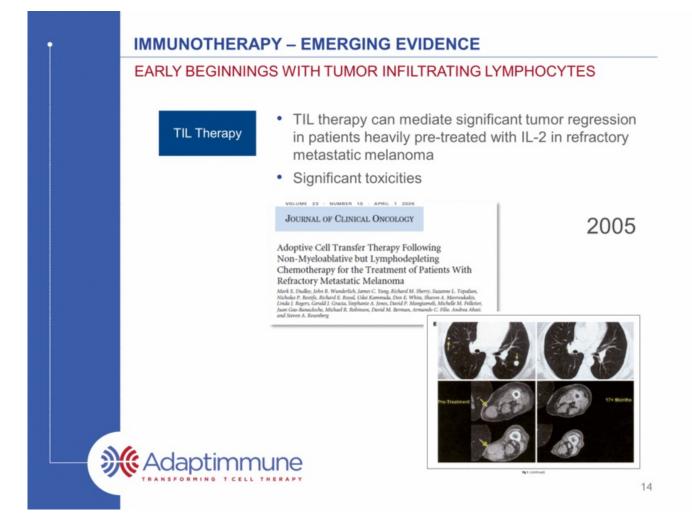
THE KEY TO TACKLING CANCER EFFECTIVELY IS IMMUNE ENGAGEMENT

- Cancers
 - Primarily derived from changes to self-proteins
 - Contain many mutations
 - Are heterogeneous, even in the same patient
 - Are good at mutating to avoid selective pressure
 - Deploy a range of tactics to avoid immune system detection

Re-establishing T cell recognition and catalysing a polyclonal T cell response is key

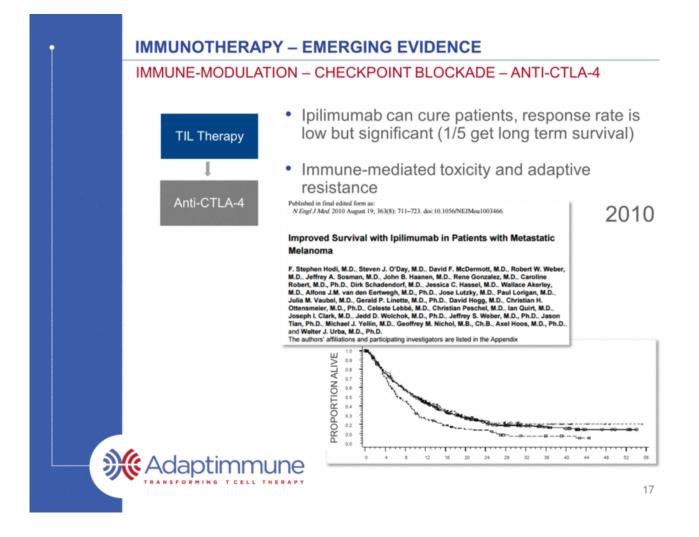




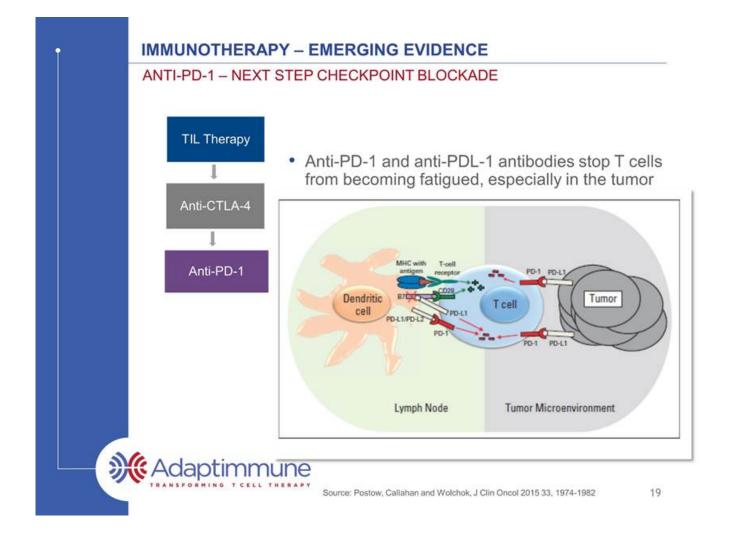


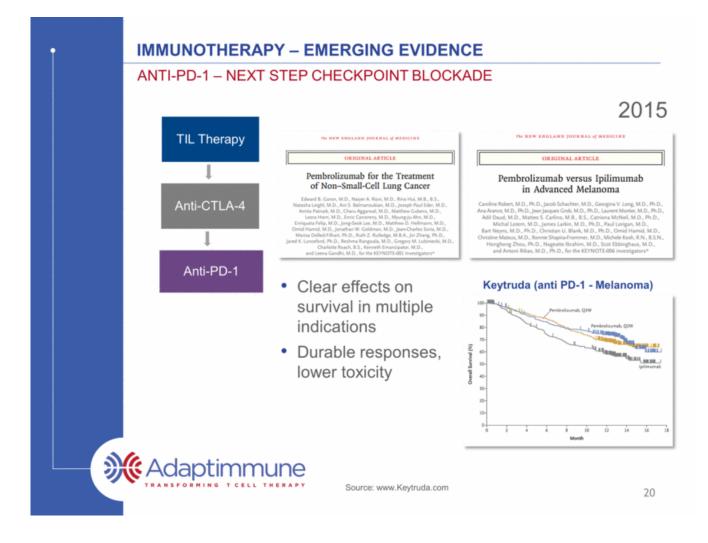


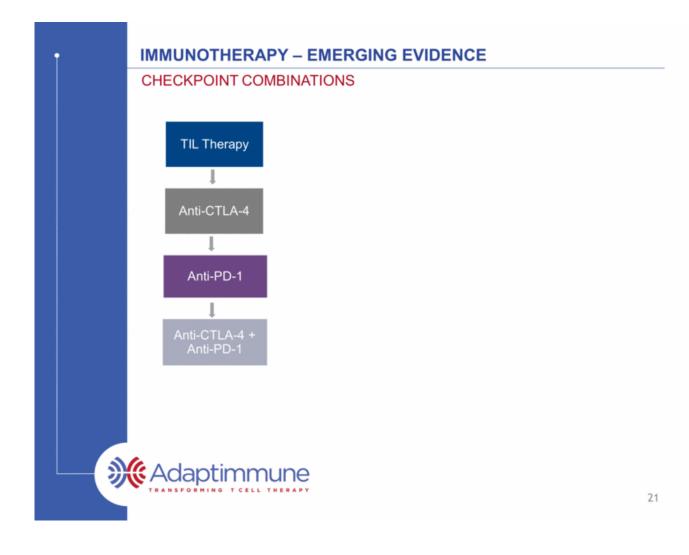
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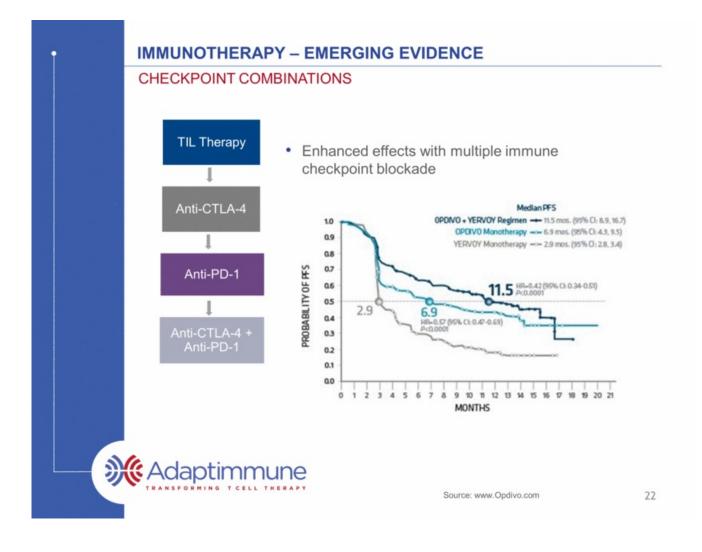


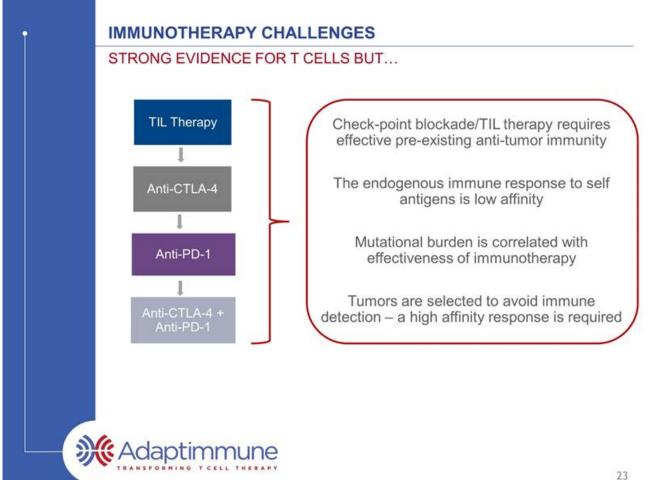


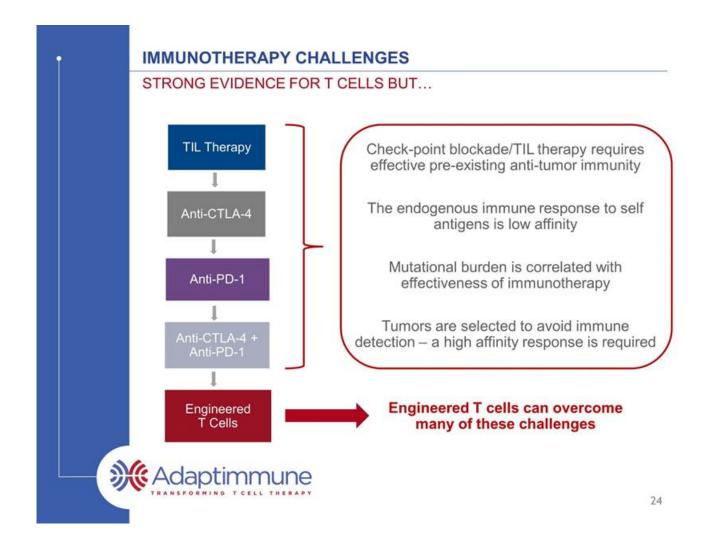






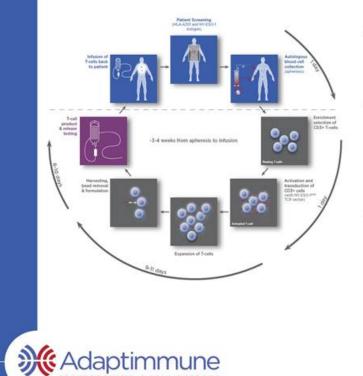




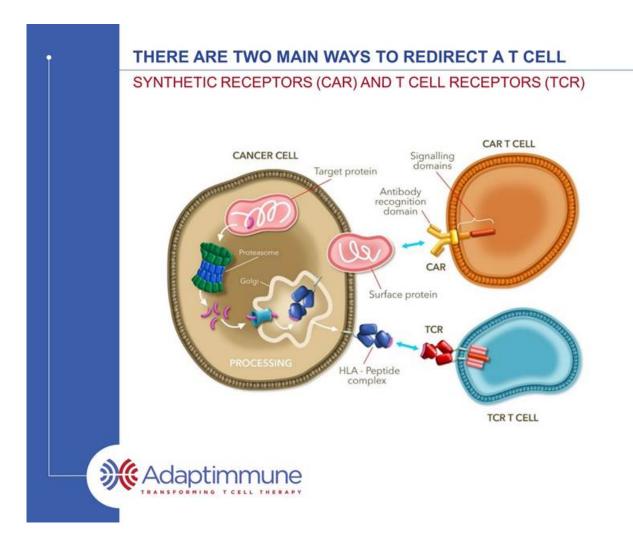


THE OPPORTUNITY FOR ENGINEERED T CELL THERAPY

A POWERFUL MODALITY



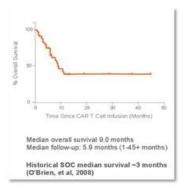
- Ability to engineer-in effective tumor antigen specificity to T cells
- Specific therapy: Engineered T cells migrate to antigen / tumor and provide localized responses
- Ability to engineer-in alterations to overcome the tumor microenvironment (next generation)



CAR T CELLS - EVIDENCE IN HEMATOLOGICAL CANCERS

NOT EASILY TRANSFERABLE TO SOLID TUMORS

 Anti-CD19 CAR-Ts have demonstrated evidence of high tumor shrinkage and remissions in B cell malignancies



Efficacy of CD19 CAR-Ts in hematological cancers

	NOVARTIS	KITE KTE-C19	JUNO	
CAR-T product	CTL019		JCAR-015	JCAR-014
Pediatric ALL	94% CR, 73% CRM	70% CR, 60% CRM	64% CR, 45% CRM	
Adult ALL	82% CR, 67% CRM	Ē	-	100% CR, 100% CRM
DLBCL	-	70% CR, 50% CRM	-	82% CR, 64% CRM

*CAR – Chimeric Antigen Receptor, ALL – Acute Lymphoblastic leukemia, DLBCL – Diffuse Large B-Cell Lymphoma, CR - Complete Response, CRM – Complete Molecular Remission

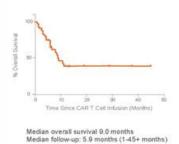


Source: Juno Therapeutics; CITI Car-T / TCR launch initiation report, 2016

CAR T CELLS - EVIDENCE IN HEMATOLOGICAL CANCERS

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Historical SOC median survival ~3 months (O'Brien, et al, 2008)

Two issues: very few targets and little evidence of efficacy in solid tumors

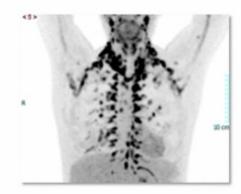


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OPTIMIZED AFFINITY TCR T CELLS

ADDRESS SOLID TUMORS AND INTRACELLULAR TARGETS

Optimized affinity TCR T cells demonstrate efficacy in **solid tumors**





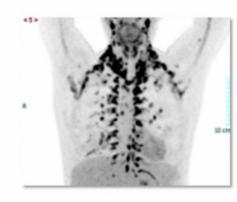


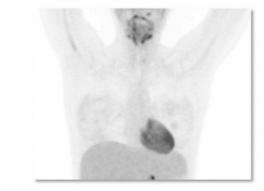
Sources: SITC, November 2015

OPTIMIZED AFFINITY TCR T CELLS

ADDRESS SOLID TUMORS AND INTRACELLULAR TARGETS

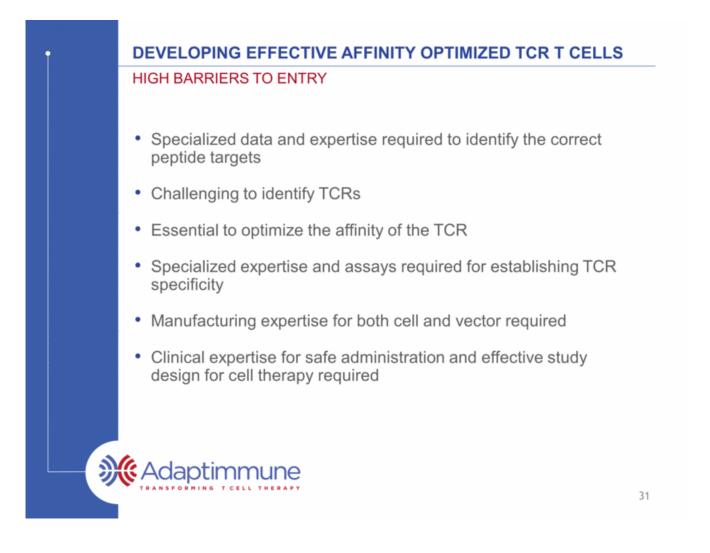
Optimized affinity TCR T cells demonstrate efficacy in **solid tumors**





 Vast majority of cancer targets are intracellular and ONLY engaged by T cells via TCRs





ADAPTIMMUNE SPEAR T CELL PLATFORM UNIQUELY OVERCOMES THESE HURDLES

Target Identification TCR Identification TCR Engineering – Optimized Affinity

> TCR Safety Testing Generation 2 T cells Generation 3 T cells

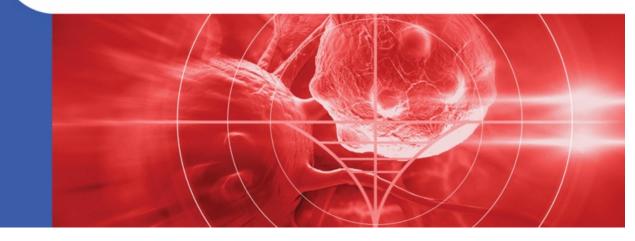
SPEAR T CELLS Specific

<u>Peptide</u> <u>Enhanced</u> <u>Affinity</u> <u>Receptor</u>

SPEAR T CELLS: ADAPTIMMUNE'S PROPRIETARY TECHNOLOGY PLATFORM APRIL 22, 2016

Bent Jakobsen, Ph.D. Chief Scientific Officer and Co-founder, Immunocore Scientific Founder, Adaptimmune Therapeutics plc Fellow of The Academy of Medical Sciences



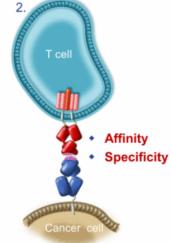


ADOPTIVE T CELL - MOST POWERFUL UNIT IN IMMUNOTHERAPY

Four components to an effective adoptive therapy:

- 1. T cell must recognize a cancer cell via a guiding receptor
- 2. The guiding receptor has two important aspects
 - Affinity
 - Specificity

1. T cell T cell Armory Apoptosis Cancer cell Cancer

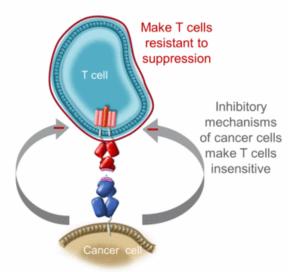




ADOPTIVE T CELL - MOST POWERFUL UNIT IN IMMUNOTHERAPY

Four components to an effective adoptive therapy:

- 1. T cell must recognize a cancer cell via a **guiding** receptor
- 2. The guiding receptor must have two important aspects
 - Affinity
 - Specificity
- 3. The T cell needs to be resistant to suppression



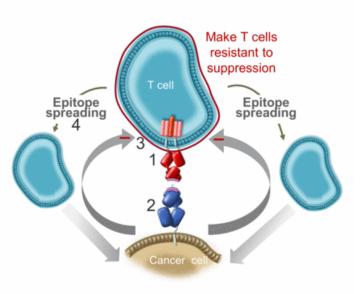


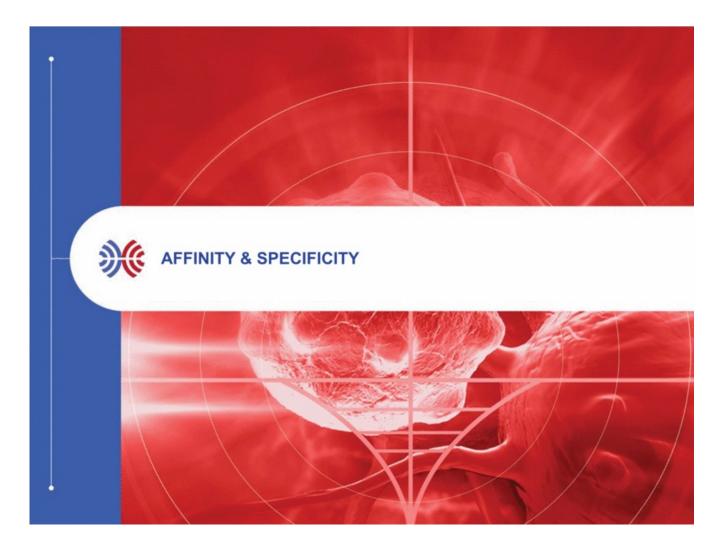
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 - Specificity
- 3. The T cell needs to be resistant to suppression
- 4. The T cell (either alone or via other mechanisms) needs to 'break cancer immune tolerance'

XAdaptimmune





ADOPTIVE T CELL - MOST POWERFUL UNIT IN IMMUNOTHERAPY

Four components to an effective adoptive therapy:

- 1. T cell must recognize a cancer cell via a guiding receptor
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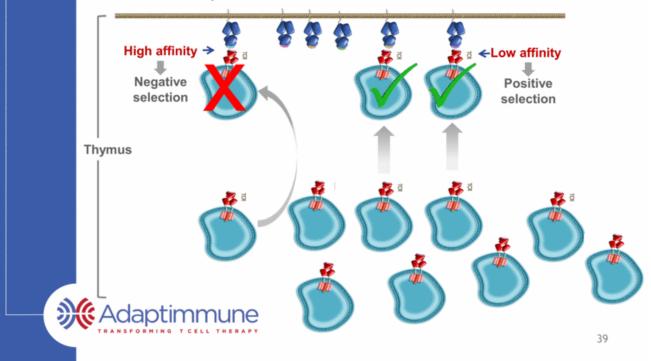
Cancer celv



TCR AFFINITY - DETERMINED BY THYMIC SELECTION



• T cells undergo **positive** and **negative** selection within the cortex and medulla of the thymus

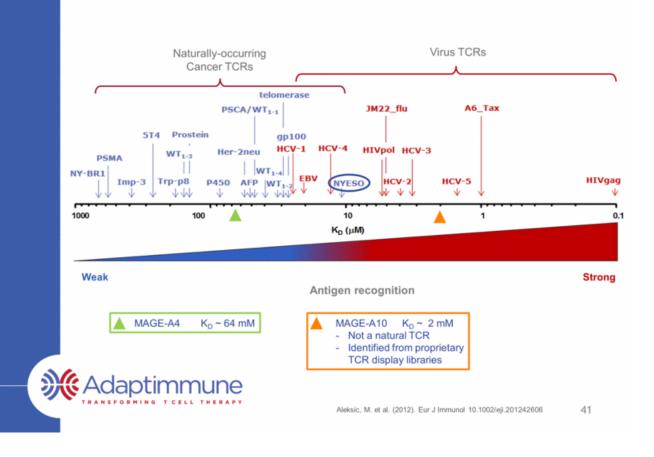


NATURAL T CELLS ARE ILL-EQUIPPED TO CLEAR CANCER

- Due to negative selection virtually all circulating T cells that have self peptide specificity will have low affinity TCRs
 - This mechanism guards the body against autoimmunity
- However all reasonably prevalent peptide antigens of cancer relevance are of self origin
 - Many of these peptide antigens are derived from proteins for which the encoding gene is silenced (or severely suppressed) in all (or almost all) adult tissues



VIRAL TCRS HAVE HIGHER AFFINITY THAN NATURAL CANCER TCRS



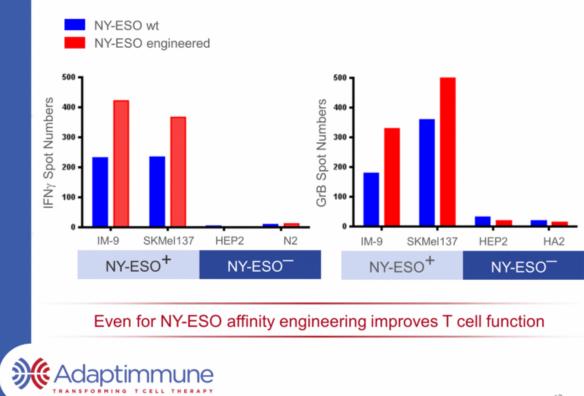
AFFINITY OPTIMIZING CANCER TCRs IS PIVOTAL TO T CELL FUNCTION

- Some non-engineered TCRs will recognise antigen well
 - e.g. NY-ESO
 - Even so, engineering improves antigen recognition
- Some non-engineered TCRs fail to recognise antigen well
 - e.g. MAGE-A4
 - Engineering enables antigen recognition

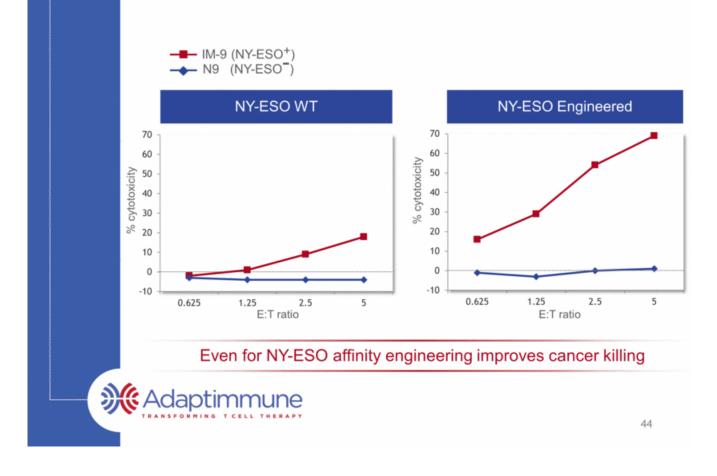
Affinity engineering is a critical step in TCR optimization

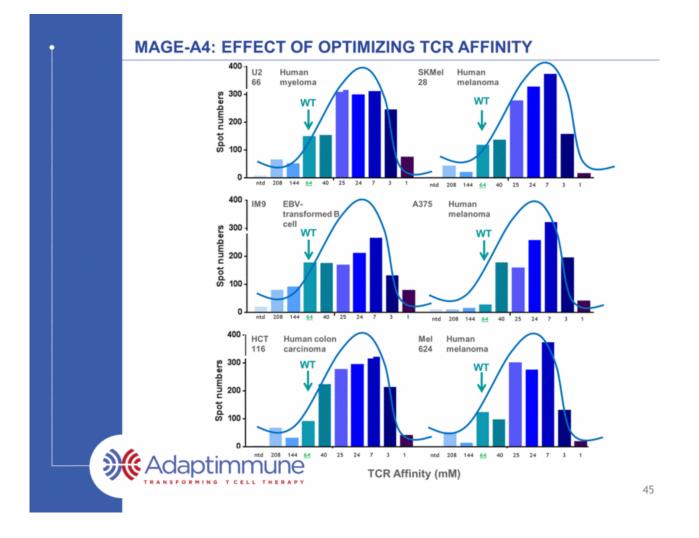


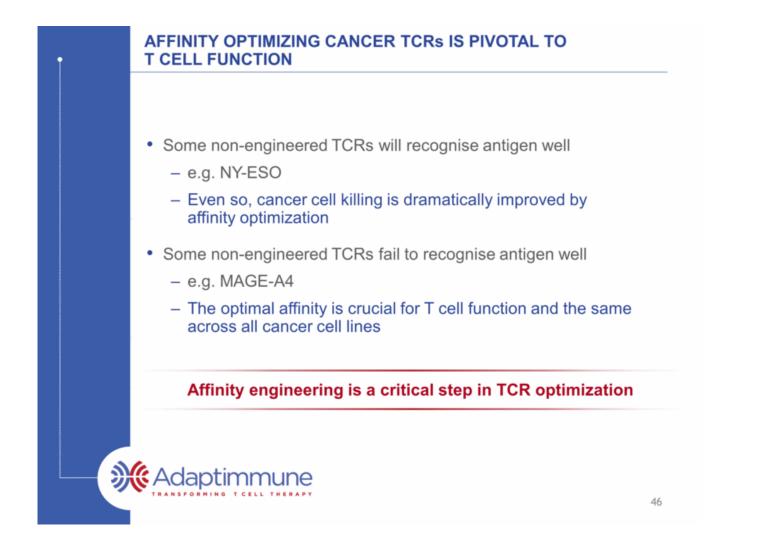
NY-ESO: NATURAL VERSUS ENGINEERED TCR FUNCTIONALITY



NY-ESO: NATURAL VERSUS ENGINEERED TCR FUNCTIONALITY

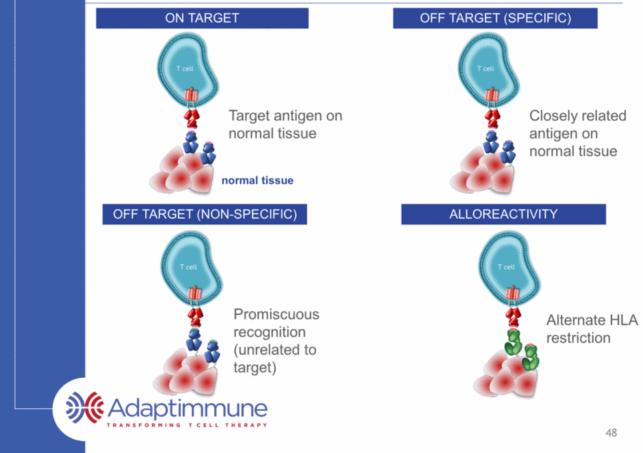












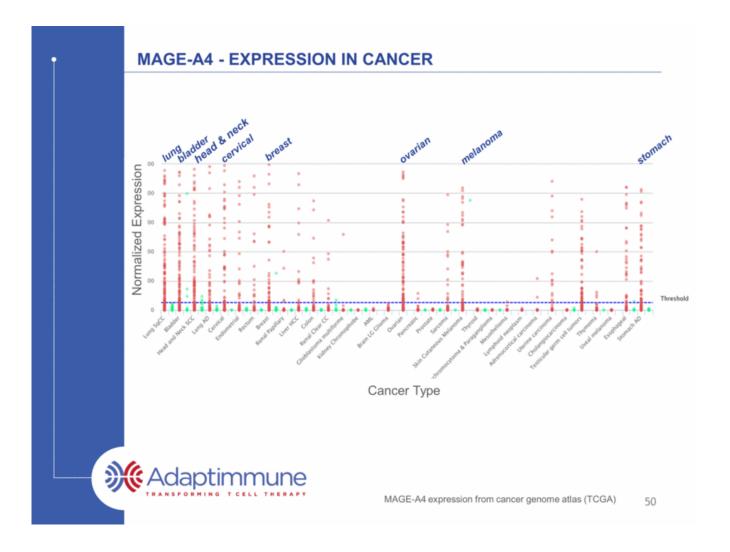
SPECIFICITY: TARGET EXPRESSION

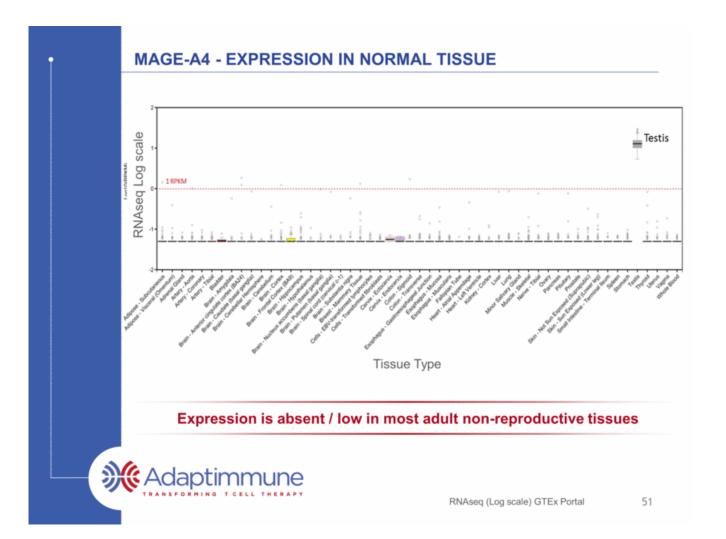


Optimized target selection process

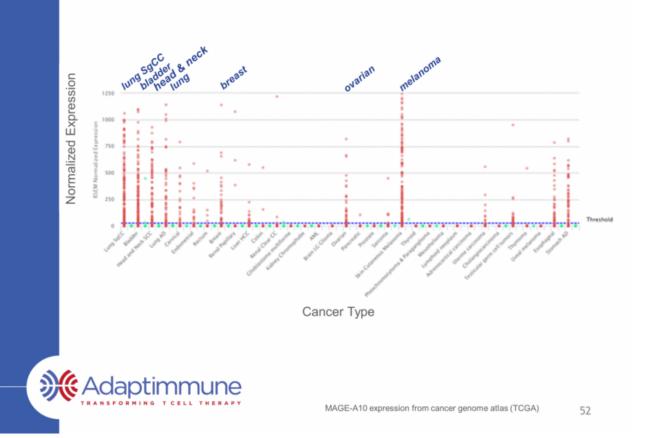
- 1. Select targets expressed on cancer cell
 - Low expression (due to HLA downregulation) overcome by high affinity TCRs
- 2. No / extremely low expression in normal tissue*

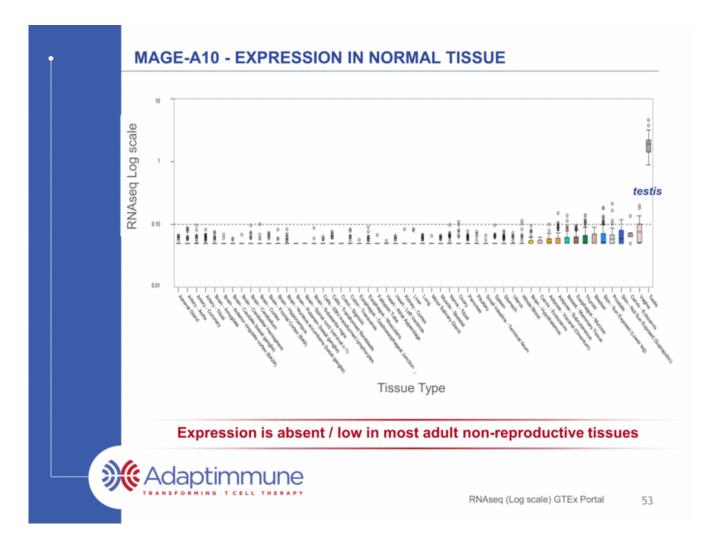
*Expression tolerable in some normal tissues (e.g. prostate, breast, pancreas, immunoprivileged tissues)











SPECIFICITY AND NON-SPECIFICITY

MAdaptimmune

OFF TARGET (SPECIFIC)



Closely related antigen on normal tissue

Potential for off-target specificity can be analyzed because the antigen is short and linear

- X-Scan
 - 1. Identify potential targets via genome search
 - 2. Test recognition by high affinity TCR

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X-SCAN: INDIVIDUAL PEPTIDE POSITION SPECIFICITY TESTING

Essential to determine which amino acids are critical This is achieved by Single Amino Acid Substitution Mapping (X-scan) TARGETHERE TARGETHERE A A R G E T H E R E A I K -C A R G E T H E R E C L H D A R G E T H E R E D V АІК--М--ЕД KG ΝK EARGETHERE E S Q FARGETHERE F S GARGETHERE G Υ HARGETHERE H IARGETHERE Ι Search Human KARGETHERE Κ Genome for all LARGETHERE L TCR 'tolerance' motif MARGETHERE b. possible peptide М matches and NARGETHERE Ν

Ρ

Q

R

S

V

W

Υ

PARGETHERE

QARGETHERE

RARGETHERE

SARGETHERE

VARGETHERE

WARGETHERE

YARGETHERE

Adaptimmune

55

investigate these via:

Peptide

presentation

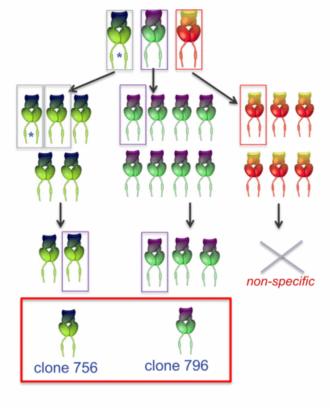
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TCR recognition

MAGE-A10 - TCR GENERATION AND SELECTION

- Three TCRs selected by specificity testing from an original pool of 21 parentals
- Affinity enhancement leads to 15 variants plus 3 parents and 1 reverted heavy chain parental for testing
- Cell based potency and specificity testing to select five candidates from 2 parents
- 4. Additional efficacy testing resulted in two comparable leads for X scan evaluation

Adaptimmune

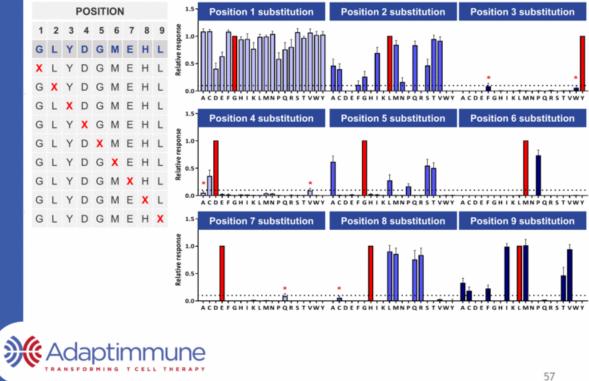


* Point mutation in heavy chain (corrected at level 2)

56

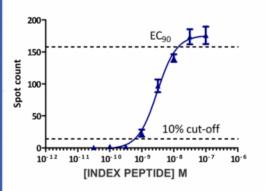
MAGE-A10 TCR: 'X-SCAN' SPECIFICITY ANALYSIS

TCR PEPTIDE RECOGNITION MAPPING USING COMBINATORIAL AMINO ACID SUBSTITUTIONS



MAGE-A10 TCR: 'X-SCAN' SPECIFICITY ANALYSIS

TCR PEPTIDE RECOGNITION MAPPING USING COMBINATORIAL AMINO ACID SUBSTITUTIONS

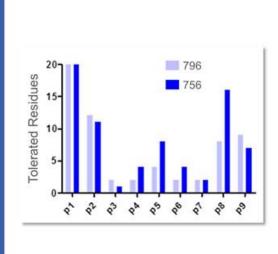


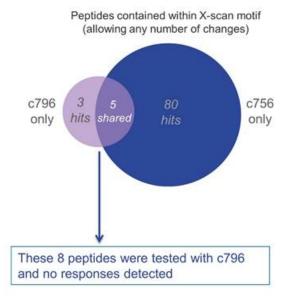
Tolerated residues at each position cutoff: >10% of native MAGE-A10 peptide response



G	Т	Y	D	G	Μ	E	L	L	>50%
А	Q	F	С	А	Ρ	Q	T	V	>30%
R	V	D	N	L	G	F	М	Т	>20%
K	L	Е	M		L	G	Н	Τ	>15%
С	S	1	А	Т	А	1	G	М	>10%
Q	А	к	Q	Ρ	V	К	Α	F	NR
Е	С	L	S	S	D	М	Ρ	C	
Т	М	М	F	H	н	Ν	V	Q	
Ρ	1	V	н	С	Т	Ρ	С	А	
W	G	Α	К	Е	К	Т	F	S	
М	N	Т	Ρ	F	Ν	V	S	w	
L	F	W	G	М	S	S	Т	D	
H	Υ	С	L	Q	С	R	Y.	к	
S	н	н	Е	D	Е	А	Ν	R	
1	D	S	Т	w	т	С	R	н	
F	Е	Ν	V	к	W	н	Q	Ν	
D	Ρ	Ρ	w	R	F	L	D	Е	
Ν	к	Q	Υ	Ν	R	W	к	G	
Y	w	G	R	V	Υ	Y	Е	Ρ	
V	R	R	т	Υ	Q	D	w	Υ	
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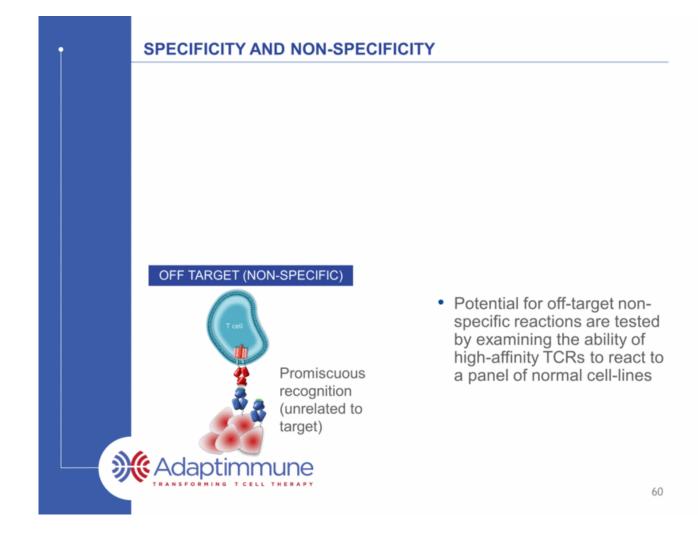
MAGE-A10 TCR SELECTION-MOTIF SEARCH AGAINST PROTEOME





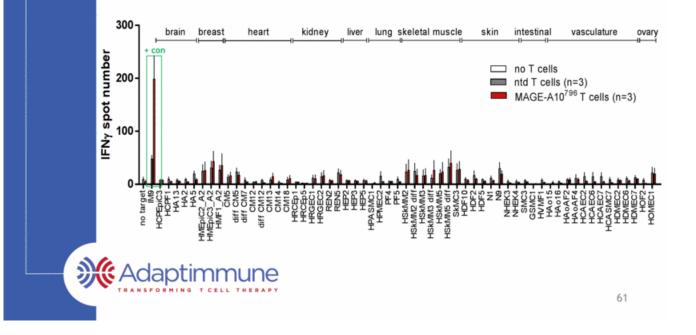
TCR specificity is a key component

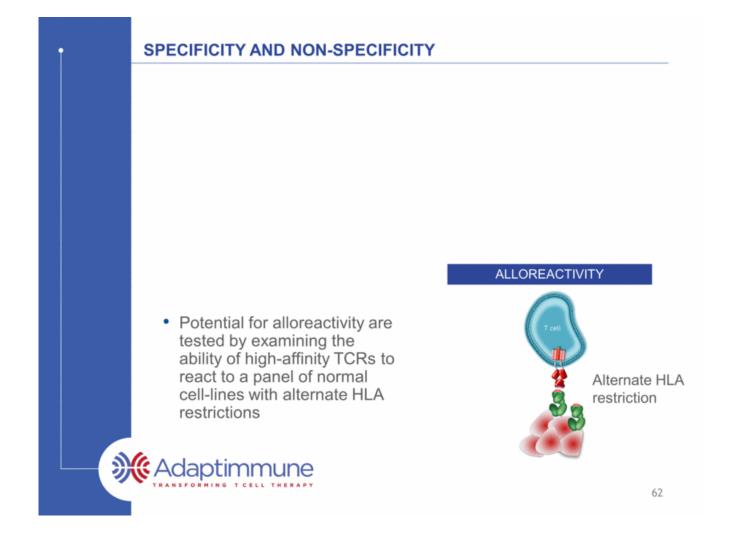


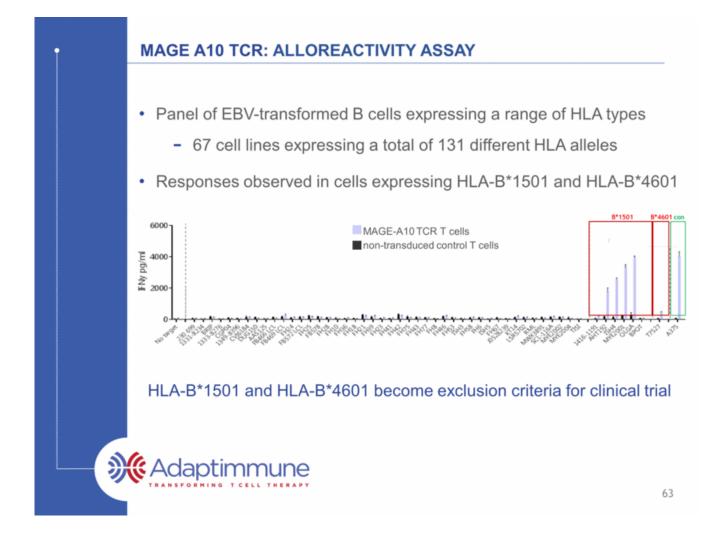


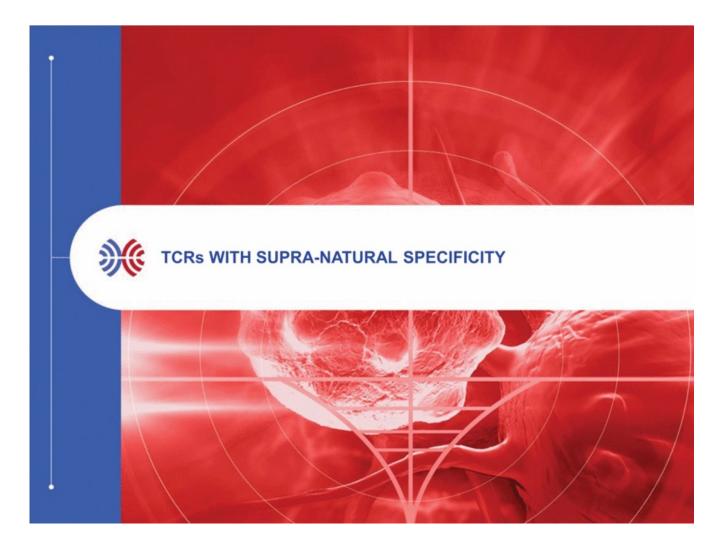
MAGE-A10 TCR - SCREENING AGAINST NORMAL PRIMARY CELLS

- MAGE-A10^{c796}T was evaluated in IFN-γ ELISpot assays against 59 normal primary cells expressing HLA-A2
- · No increase above background levels with transduced T cells

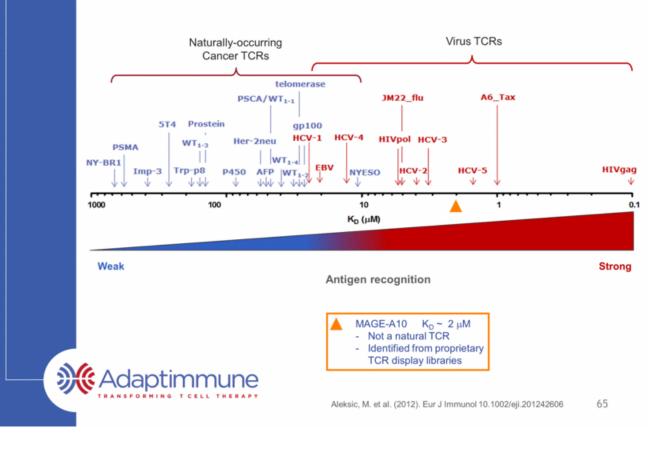








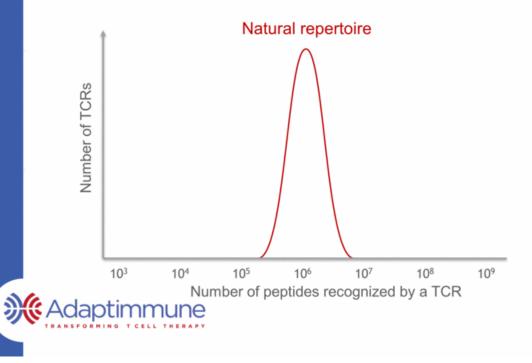
TCR FROM DISPLAY LIBRARY HAS SUPRA-NATURAL AFFINITY



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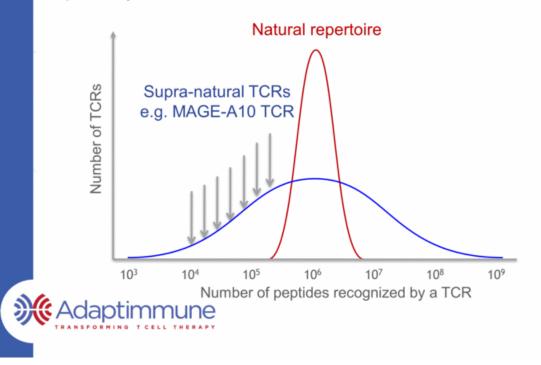
- Thymic selection narrows TCR specificity / cross-reactivity spectrum
- TCR has to recognize approximately 1,000,000 peptides to be positively selected



66

TCRs SELECTED FROM PHAGE LIBRARIES CAN HAVE SUPRA-NATURAL SPECIFICITY

- Thymic selection narrows TCR specificity / cross-reactivity spectrum
- TCR has to recognize approximately 1,000,000 peptides to be positively selected

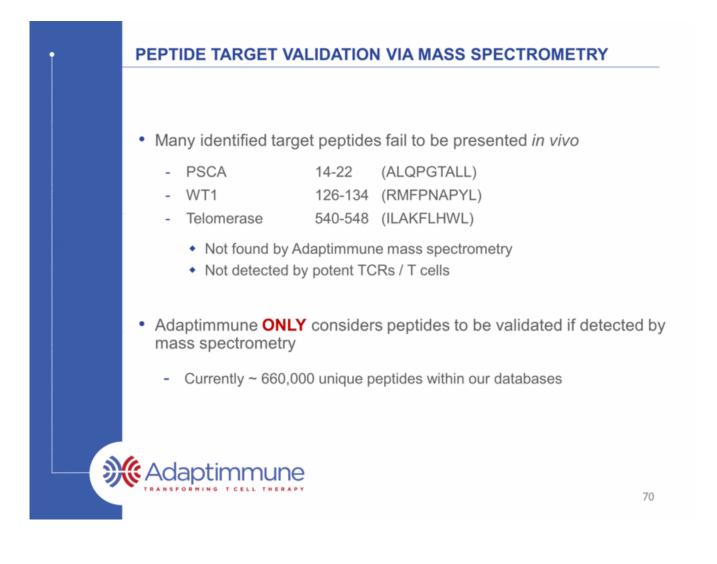


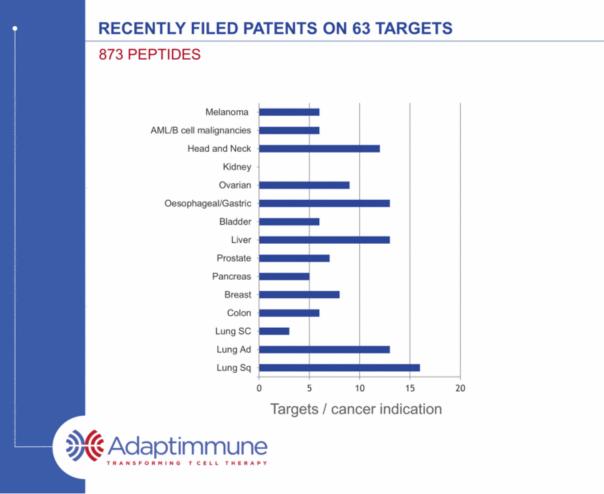
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THE SPECTRUM OF POTENTIAL CANCER TARGETS FOR IMMUNOTHERAPY

	Tumor selectivity	Tumour specific antigens not expressed in normal tissues Viral antigens e.g. EBV/HPV Mutated antigens e.g p53 Neo-antigens	****	Ideal	
		Cancer testis antigens expression restricted to immune- privileged tissue e.g. MAGE family / NY-ESO	****	Good Prevalence	
		Differentiation antigens tissue restricted expression e.g. Tyrosinase / gp100		Depends on tissue	
		Overexpressed antigens overexpressed in tumour cells e.g. WT1 / telomerase	****	Depends on extent of normal tissue expression	
		Ubiquitous antigens expressed in all cells e.g. Her2/neu	****	Unlikely to be suitable	
)		S T CELL THERAPY see http://cancerimm	nunity.org/peptide/ for a lis	st of tumor antigens reported in the literature 69	



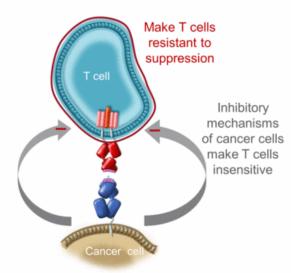




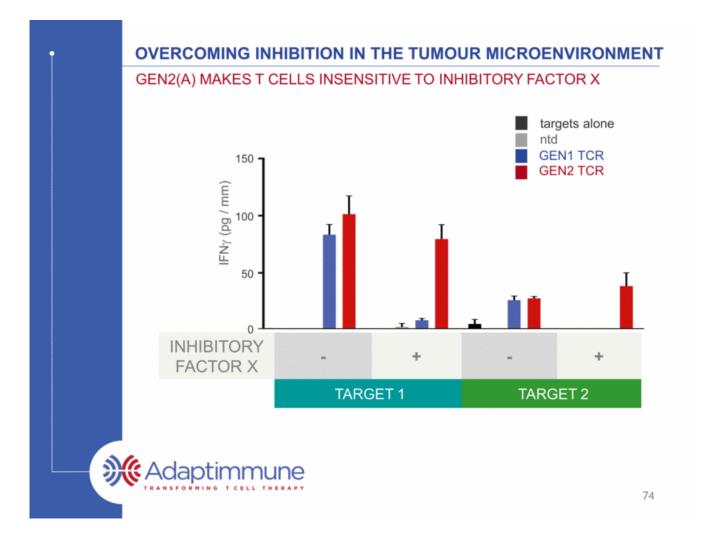
ADOPTIVE T CELL : GENERATION 2

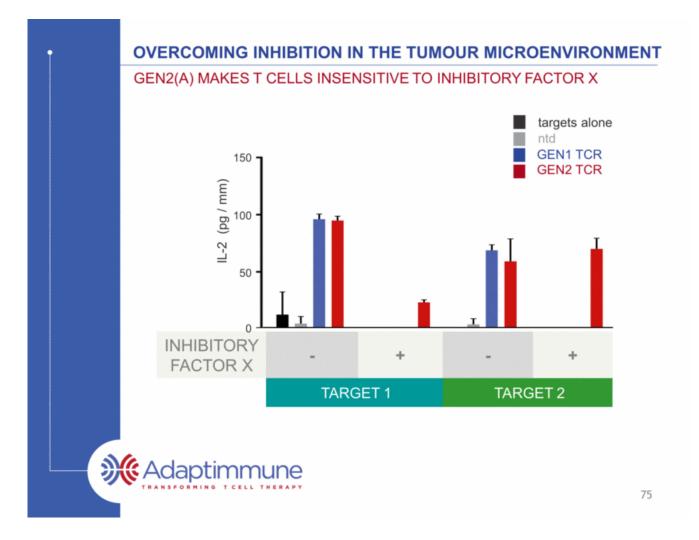
Four components to an effective adoptive therapy:

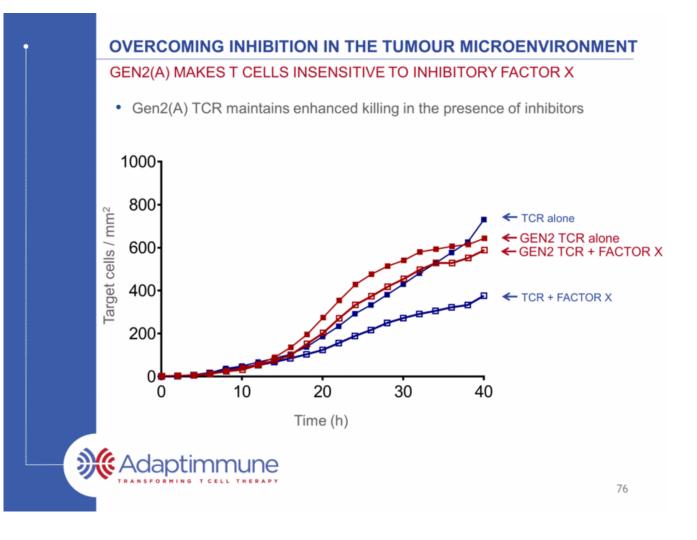
- 1. T cell must recognize a cancer cell via a guiding receptor
- 2. The guiding receptor must have two important aspects
 - Affinity
 - Specificity
- 3. The T cell needs to be resistant to suppression



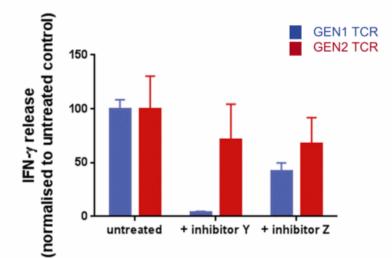








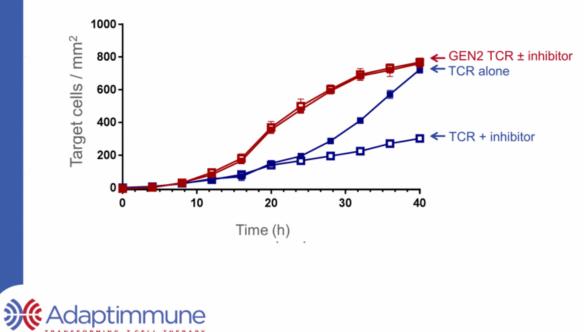
OVERCOMING INHIBITION IN THE TUMOUR MICROENVIRONMENT GEN2(C) MAKES T CELLS INSENSITIVE TO INHIBITORY FACTORS Y & Z

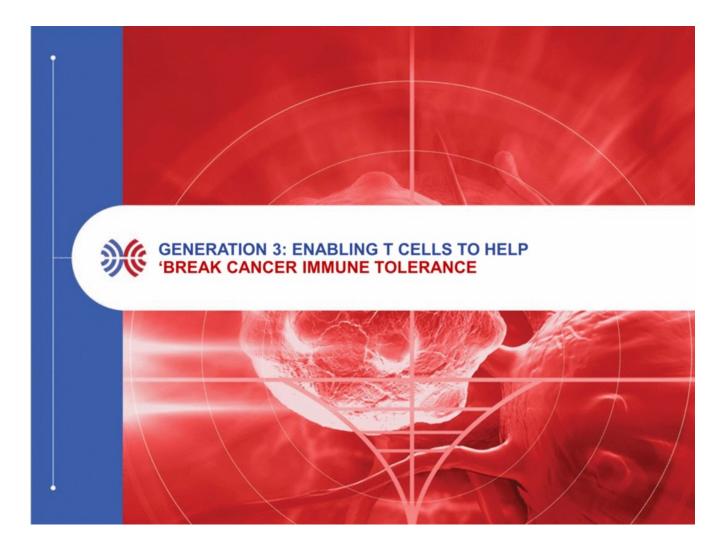




OVERCOMING INHIBITION IN THE TUMOUR MICROENVIRONMENT (II) GEN2(C) MAKES T CELLS INSENSITIVE TO INHIBITORY FACTORS Y & Z

• Gen2(C) TCR maintains enhanced killing in the presence of inhibitors



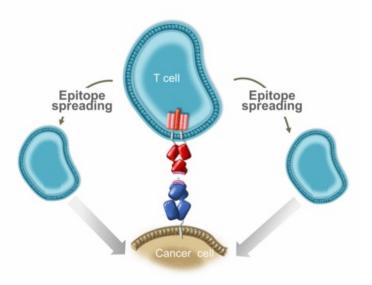


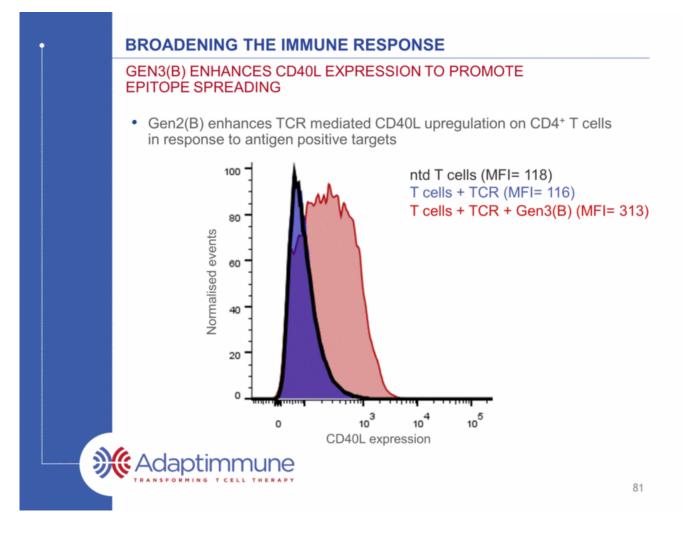
ADOPTIVE T CELL : GENERATION 3

Four components to an effective adoptive therapy:

- 1. T cell must recognize a cancer cell via a **guiding** receptor
- 2. The guiding receptor must have two important aspects
 - Affinity
 - Specificity
- 3. The T cell needs to be resistant to suppression
- 4. The T cell (either alone or via other mechanisms) needs to 'break cancer immune tolerance'

XAdaptimmune





GENERATION 2 AND GENERATION 3 T CELLS

- Several Generation 2 projects that help T cells overcome sensitivity to inhibitory factors in the tumor microenvironment
- Several Generation 3 projects that enable T cells to promote epitope spreading and therefore have the potential to aid the breaking of tumor immune tolerance
- First Generation 2 / 3 IND anticipated in 2017



ADAPTIMMUNE T CELL TECHNOLOGY

SUMMARY

- TCR affinity optimization crucial for best T cell response to cancer
- Specificity crucial for lowest toxicity supra-naturally specific TCRs identified from proprietary display libraries
- Several Generation 2 technologies making T cells resistant to tumour microenvironment inhibitory factors
- Several Generation 3 technologies enabling T cells to facilitate breaking immune tolerance to tumor

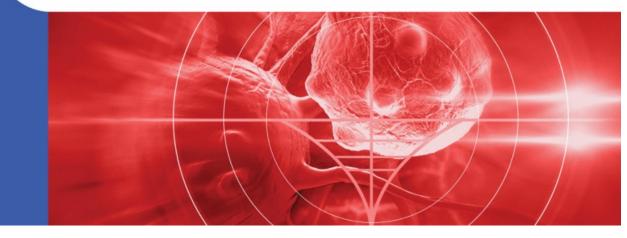


ADAPTIMMUNE INVESTOR AND ANALYST DAY 2016

ADOPTIVE T CELL THERAPY: CLINICAL ACTIVITY OF NY-ESO-1 IN A SOLID TUMOR APRIL 22, 2016

Stephan Grupp, M.D., Ph. D. Novotny Professor of Pediatrics University of Pennsylvania Perelman School of Medicine





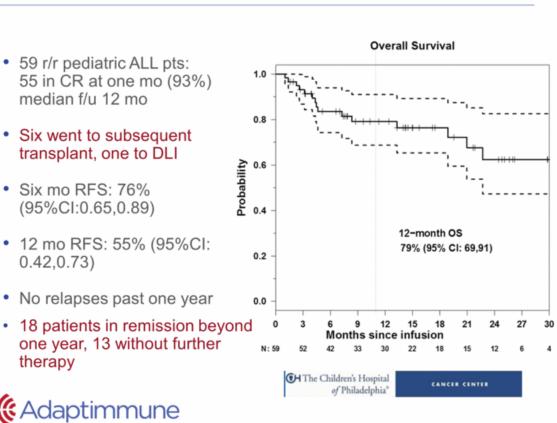
93% CR RATE FOR RELAPSED/REFRACTORY ALL AFTER CTL019

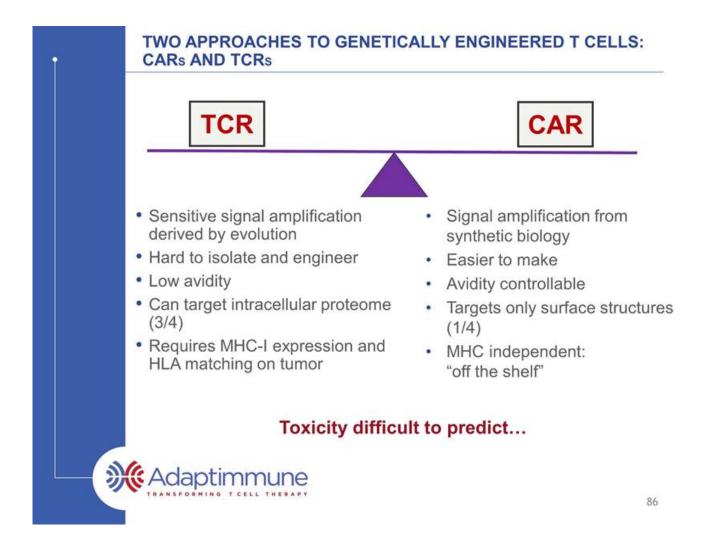
• 59 r/r pediatric ALL pts: 55 in CR at one mo (93%) median f/u 12 mo

- Six went to subsequent transplant, one to DLI
- Six mo RFS: 76% (95%CI:0.65,0.89)

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- 12 mo RFS: 55% (95%CI: 0.42,0.73)
- No relapses past one year
- · 18 patients in remission beyond one year, 13 without further therapy





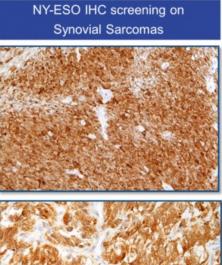
NY-ESO-1

A CANCER-TESTIS ANTIGEN HIGHLY EXPRESSED IN SYNOVIAL SARCOMA

 76% of synovial sarcomas express strong staining, defined as 2-3+ in >50-70% (Lai, Mod Pathol 2012)

 A TCR recognizing NY-ESO-1 in the context of HLA:A0201 was cloned from a patient with cancer, then modified for higher affinity (*Zhao, J Immunol, 2007*)



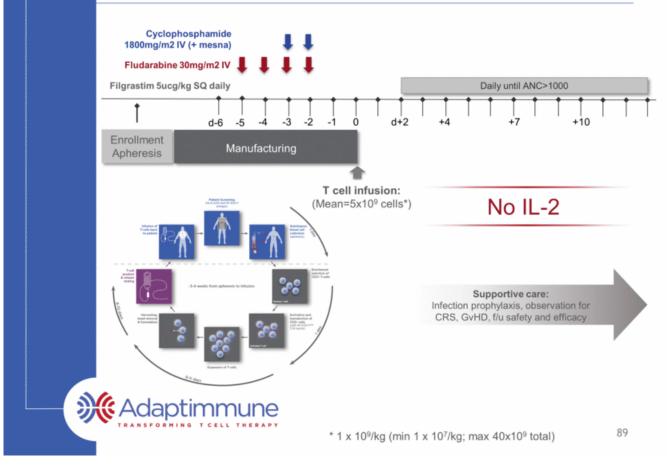


TWO CLINICAL TRIALS OF ADAPTIMMUNE'S NY-ESO-1 TCR IN SYNOVIAL SARCOMA

- Investigator Initiated Trial: The Surgical Branch of the NCI did a study of Adaptimmune's NY-ESO-1-transduced lymphocytes in synovial sarcoma (Cy/Flu + HD IL-2)
 - Partial response in 4 of 6 synovial sarcomas (Robbins et al, JCO 2011)
 - Follow-up report: Objective responses in 11 of 18 synovial cell sarcomas (61%) (Robbins, Clin Can Res 2015)
 - Estimated 3-year OS: 38%; 5-yr OS 14%
- Adaptimmune Trial: Included changes to improve safety and treatment feasibility
 - Determine response rate without HD IL-2
 - Use of lentiviral vector
 - Central manufacturing site (GMP) and cryopreserved final product
 - Recent new cohort with cyclophosphamide alone (no fludarabine)
 - Recent additional cohort of NY-ESO-1 low expressors (<2+ in 50%)



ADAPTIMMUNE'S NY-ESO-1 SARCOMA TRIAL SCHEMA



NY-ESO-1 SARCOMA STUDY: COHORT 1

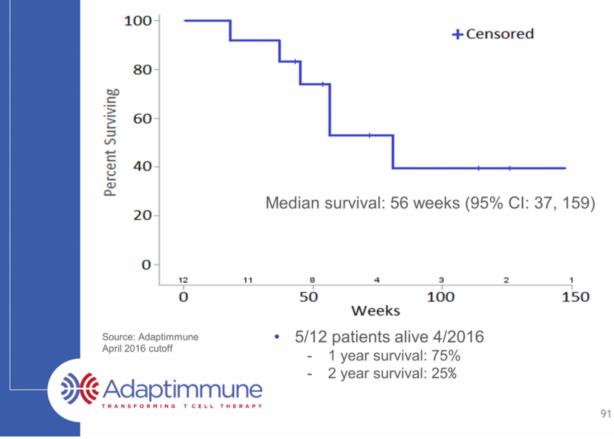
60% OBJECTIVE RESPONSE RATE IN PATIENTS TREATED AT TARGET DOSE

Patient	NY-ESO Staining (archival tissue)	Total Transduced T cells (x10 ⁹)	NY-ESO TCR+ T cells / kg (x10 ⁶)	Best Overall Response
200	2-3+ in >50%	14.4	91.3	SD
201	3+ in 100%	8.3	165.01	CR
202*	3+ in 30%	6.6	69.99	PR
204	2-3+ in 50%	3.8	60.32	PR
205	3+ in ~100%	3.4	62.50	PR
261	3+ >99%	0.72	9.11	SD
206	2+ >50%	0.45	5.51	SD
207	3+ >80%	2.67	25.36	SD
208	3+ >95%	4.84	47.97	PR
209	3+ in ~100%	2.51	27.9	PR
263	3+ >50%	2.51	45.39	PD
230	2-3+ in 100%	7.86	143	PD
	Mean	4.17	57.4	

Maget Adaptimmune

*Treated in cohort 1 under a protocol exception

SYNOVIAL SARCOMA OVERALL SURVIVAL COHORT 1



SYNOVIAL SARCOMA STUDY: ALL COHORTS INCIDENCE (N,%) OF SAEs (>1 OCCURRENCE)

Preferred Term	Number of Subjects by Maximum Grade (N=16)		
	All SAEs	Related*	Fatal
Pyrexia	4 (25)	2 (12.5)	0
Cytokine release syndrome	2 (12.5)	2 (12.5)	0
Lymphopenia/Lymphocyte count decreased	2 (12.5)	2 (12.5)	0
Neutropenia	2 (12.5)	2 (12.5)	0
Febrile neutropenia	2 (12.5)	1 (6.3)	0
Thrombocytopenia	2 (12.5)	2 (12.5)	0
Dyspnea	2 (12.5)	1 (6.3)	0

January 2016 cutoff



Source: Adaptimmune

PHASE I/II STUDY IN SYNOVIAL SARCOMA

RADIOGRAPHIC PSEUDOPROGRESSION AND RESPONSE OF LUNG METASTASES LEADING TO COMPLETE RESPONSE

Baseline: Bilateral miliary metastatic disease

Day +2: Pseudoprogression due to immune infiltration

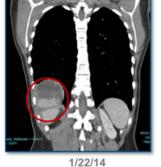
> Day +101: Complete Response



Source: AACR April 2015 93

C-Reactive Protein

CLINICAL RESPONSE FOLLOWED BY RESECTION AT PROGRESSION







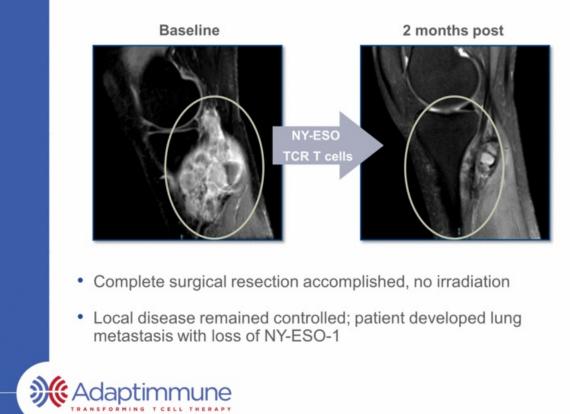
4/7/14

- Mass began to show regrowth ~6 months
- · Surgically resected at 7 months
 - No NY-ESO-1 TCR cells found in tumor
 - Substantial CD4+ T cells

No evidence of disease 27 months post NY-ESO-1 T cell infusion; 20 months from surgical resection of metastasis



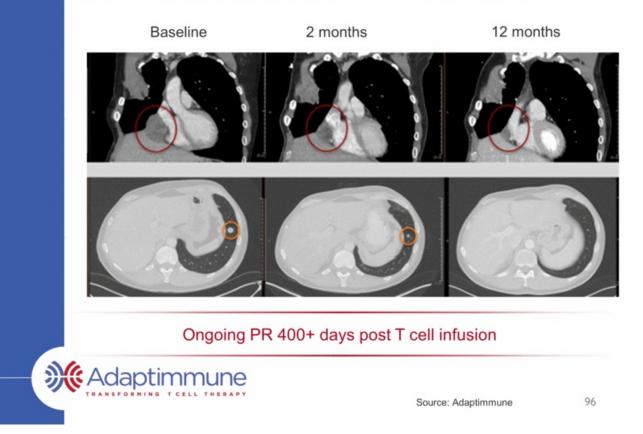
NEAR COMPLETE RESPONSE TO NY-ESO-1 T CELLS OF UNRESECTABLE PRIMARY TUMOR IN THE KNEE

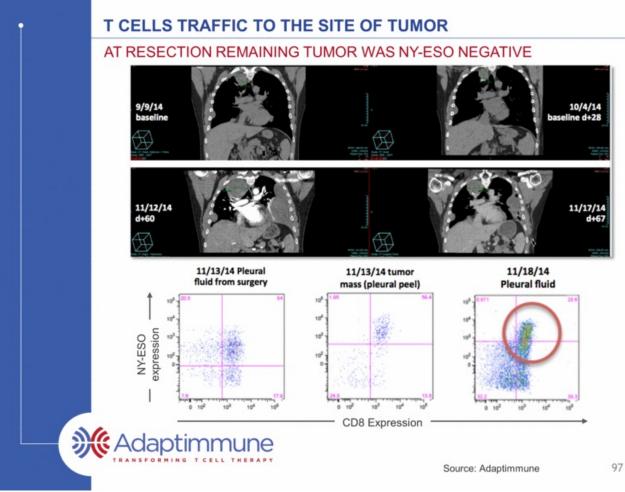


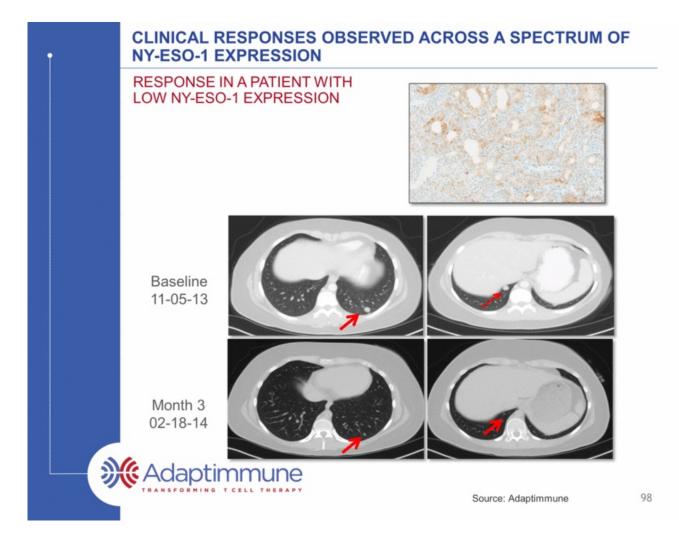
Source: SITC, November 2015 95

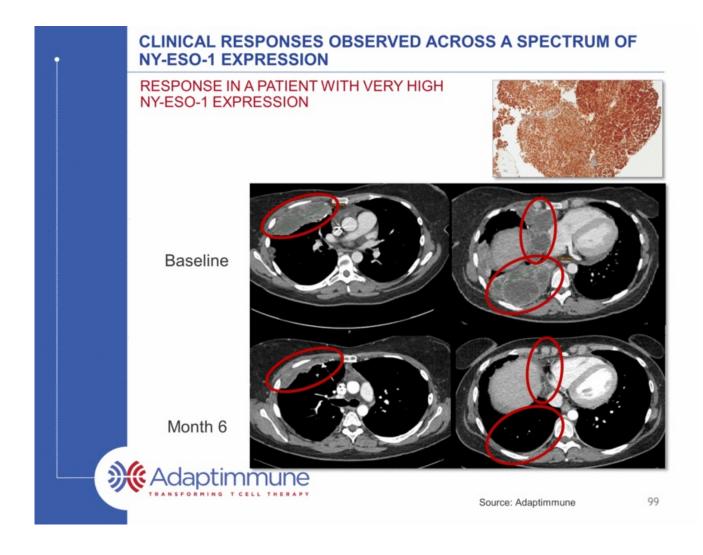
TUMOR SHRINKAGE OVER THE COURSE OF SEVERAL MONTHS FOLLOWING NY-ESO-1 TCR FOR SYNOVIAL SARCOMA

MULTIPLY RECURRENT, UNRESECTABLE PULMONARY MASSES

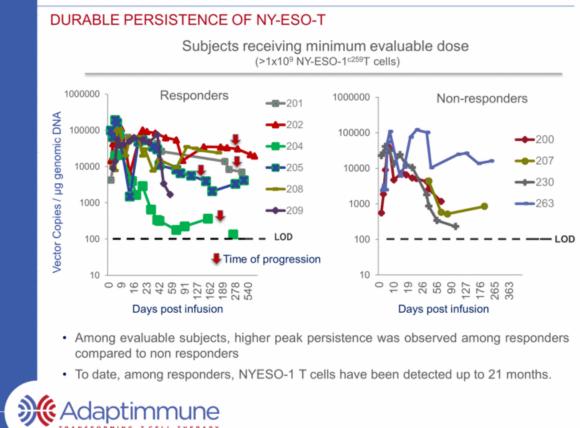








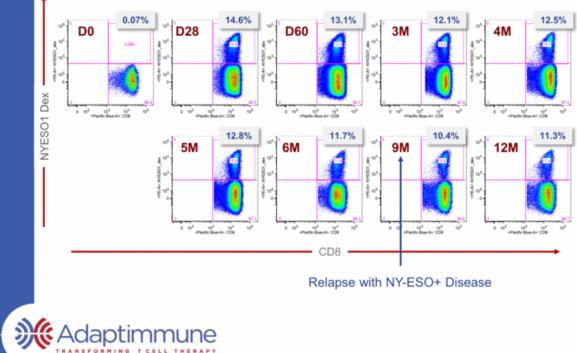
NY-ESO-1 SARCOMA STUDY



Source: November SITC, 2015 100

NY-ESO-1 SARCOMA STUDY

REMARKABLE PERSISTENCE OF NY-ESO TCR+ T CELLS IN SARCOMA PATIENT EXPERIENCING A COMPLETE RESPONSE



CLINICAL SUMMARY

- NY-ESO-1 TCR T cells has manageable toxicity
 - Fever, low grade cytokine release common in the week following cell infusion
- Anti-tumor activity confirmed in the absence of HD IL-2:
 - 60% response without HD IL-2
- Pseudo-progression, gradual reductions in tumor burden and NY-ESO TCR+ T cells in resected tumor indicate immunologic basis for response
- NY-ESO-1 TCR T cells are highly persistent
 - Longest persistence observed with a TCR to date
- Mechanisms of resistance:
 - Elucidating mechanisms of immune escape through analysis of pre- and post-treatment tissue



ADAPTIMMUNE INVESTOR AND ANALYST DAY 2016

NY-ESO-1 T CELL THERAPY IN MULTIPLE MYELOMA: LONG TERM EFFICACY AND PERSISTENCE APRIL 22, 2016

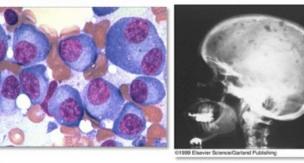
Aaron P. Rapoport, MD Professor of Medicine Gary Jobson Professor in Medical Oncology University of Maryland Marlene and Stewart Greenebaum Cancer Center

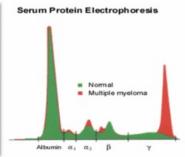




MULTIPLE MYELOMA

MODEL BLOOD CANCER





- The American Cancer Society estimates that in 2016*
 - ~30,330 new cases will be diagnosed
 - ~12,650 deaths will occur
 - 1/143 lifetime risk
- · Slightly more common in men than women
- Incidence in African-Americans about twice that in Caucasians
- · Mean age is approximately 60 years



*https://cancerstatisticscenter.cancer.org/?_ga=1.104040064.164164 104 3651.1460834859#/cancer-site/Myeloma 104

ADVANTAGES OF CELLULAR IMMUNOTHERAPY

- Kills "resistant" tumors (e.g. 17p P53 del)
- Penetrates "sanctuary" sites (e.g. CNS)
- Through expansion and serial killing can eradicate "large" tumors
- Can generate long-lived "memory" responses to protect against recurrence
- High degree of specificity, avoids second malignancies and immunodepletion



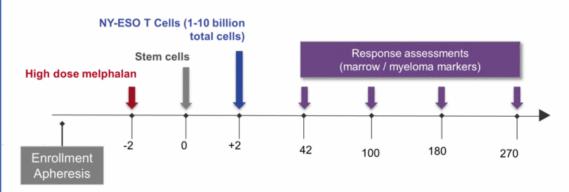
WHY TARGET CANCER TESTIS ANTIGENS IN MM

- Advanced MM frequently expresses the Cancer Testis antigens NY-ESO-1 or LAGE-1
 - Expression of Cancer Testis antigens is associated with poor prognosis in myeloma¹
- Adaptimmune's NY-ESO-1 TCR was tested in multiple myeloma
 - Same epitope present on both antigens²



1. Dhodapkar et al, Cancer Immun, 2003

- Atanackovic et al, Clin Cancer Res, 2009; and others
- 2. Li et al, Nat Bio, 2005; Robbins et al, JCO 2011 and CCR 2014



- All enrolled patients (n=25): Symptomatic myeloma with active disease
- High risk population
 - Average of 3 prior Rx; range 1-5
 - •7 patients had prior autologous stem cell transplant (ASCT)
 - Twelve with cytogenetic abnormalities (7 categorized as high-risk)
- · Conditioned with high-dose melphalan followed 2 days later by ASCT



STUDY PATIENT POPULATION

- · Medically eligible for transplant
- High risk or relapsed disease
- ECOG performance status: Grade 0-2
- HLA-0201
- Myeloma cells express NY-ESO-1 and/or LAGE-1 by RT-PCR

STUDY ENDPOINTS

- Safety and Tolerability
- Secondary:
 - Clinical Responses
 - Proof of Mechanism

RESPONSE ASSESSMENTS

- · International Uniform Response Criteria
 - Additional category of nCR: -ve M spike but +ve by immunofixation

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RESPONSE ASSESSMENT

Best Response by day 100	Number of Patients	% Total
CR	3	14%
nCR	10	45%
VGPR	2	9%
PR	5	23%
SD	1	5%
PD	1	5%
Not assessable*	3	NA
Total evaluable	22	100%

* Patients with VGPR or better going into transplant

• RR= 91%

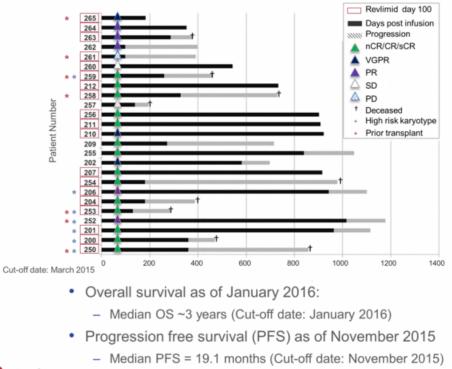
• CR+nCR+VGPR = 68%



Rapoport et al. Nat Med 21(8):914-21

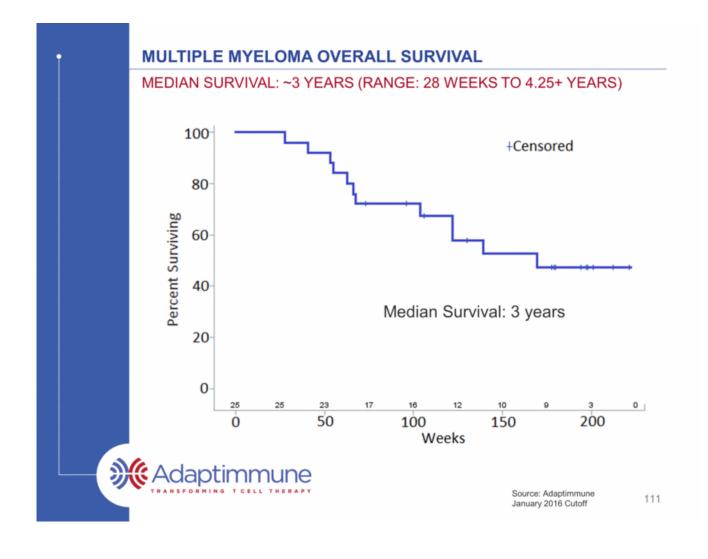


DURATION OF RESPONSE

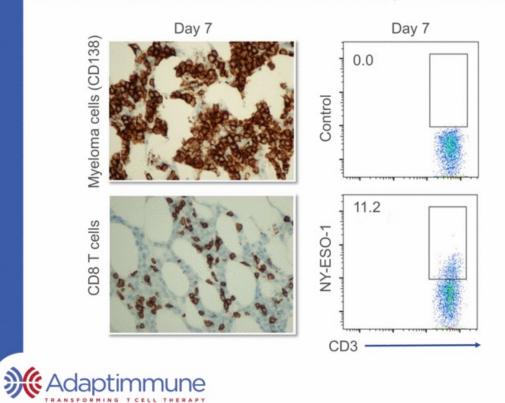


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Rapoport et al. Nat Med 21(8):914-21



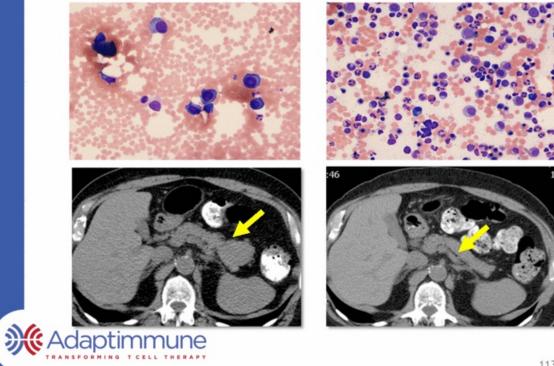
NY-ESO-1 T CELLS TRAFFIC TO SITES OF TUMOR (BONE MARROW)



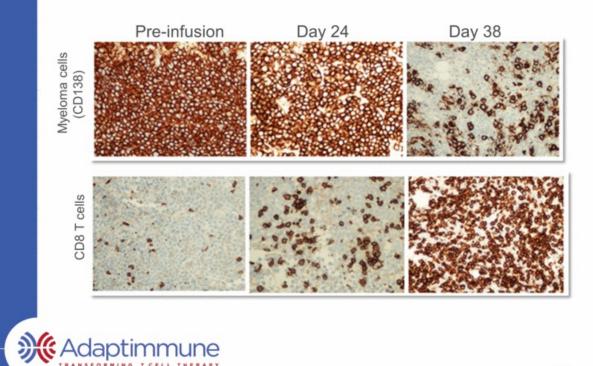
RESOLUTION OF DISEASE IN BONE MARROW AND PLASMACYTOMA BY DAY 56 POST-THERAPY WITH NY-ESO-1 TCR TRANSDUCED T CELLS

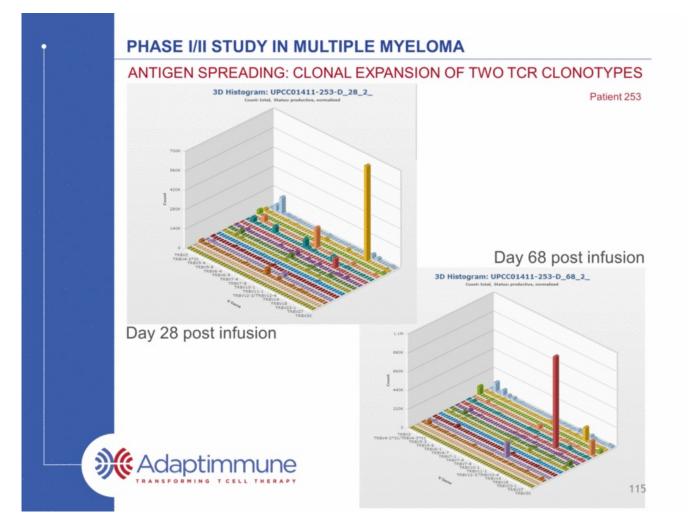
Pre-treatment

Day 56



MASSIVE INFILTRATION OF T CELLS INTO MARROW CORRELATE WITH RESPONSE FOLLOWING SECOND INFUSION





INCIDENCE (N,%) OF ALL SAEs (>1 OCCURRENCE)

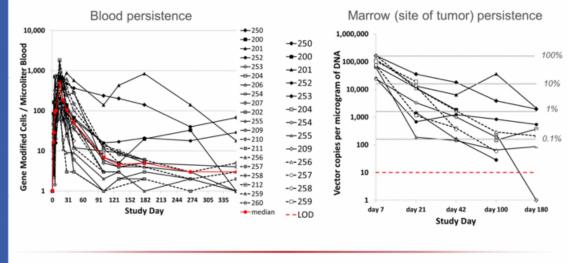
Preferred Term	Number of Subjects by Maximum Grade (N=25)*		
	All SAEs**	Related	Fatal
Neutropenia	4 (16.0)	2 (8.0)	0
Pyrexia	3 (12.0)	1 (4.0)	0
Atrial fibrillation	3 (12.0)	0 (0.0)	0
Graft versus host disease	2 (8.0)	2 (8.0)	0
Diarrhoea	2 (8.0)	2 (8.0)	0
Hypoxia	2 (8.0)	1 (4.0)	0
Staphylococcal infection	2 (8.0)	0 (0.0)	0

*No episodes of CRS SAEs were reported

**Includes all events reported as of 27Jan2016 excluding disease progression and laboratory abnormalities with the investigations and nutritional disorders SOCs except for combined haematologic terms above



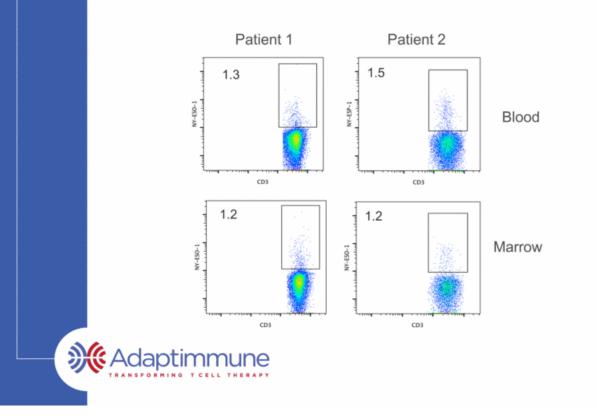
NY-ESO-1 T CELL PERSISTENCE IN PERIPHERAL BLOOD



IN FURTHER FOLLOW UP, NY-ESO-1 T CELLS ARE DETECTED BEYOND THREE YEARS IN PERIPHERAL BLOOD



CONTINUED EXPRESSION OF NY-ESO-1 TCR IN BLOOD AND AT SITE OF TUMOR: DAY 360



PERSISTENCE AND RELAPSE CORRELATION

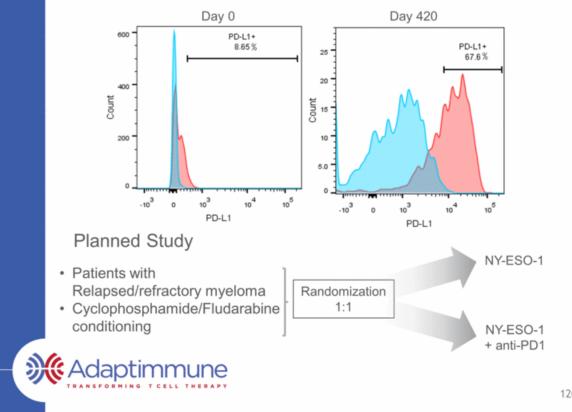
Patient ID	Timepoint at relapse	Best response	Persistence of NY-ESO T at relapse	Antigen expression on tumor at relapse?
250	1 year	sCR	Y	N
200	1 year	nCR	Y	N
252	2.75 year	PR	N	Y
253	4 months	nCR	N	Y
204	6 months	nCR	N	Y
254	6 months	PR	Y	N
255	1.75 years	nCR	N	Y
209	8 months	nCR	N	Y
257	4 months	nCR	N	Y
258	9 months	nCR	N	Y
259	9 months	sCR	N	Y
261	3 months	PR	N	Y
262	5 months	PR	N	Y
263	9 months	PR	N	Y

- At the time of relapse, blood and tumor were evaluated for NY-ESO-1 persistence and antigen, respectively
- Relapse corresponds to loss of persistence or loss of antigen



PD-L1 EXPRESSION UPREGULATED IN MYELOMA CELLS AT PROGRESSION

PLANNED COMBINATION STUDY NY-ESO-1 T CELLS + PD-1 INHIBITOR



SUMMARY

- Infusion of autologous T cells engineered with Adaptimmune's affinity enhanced TCR specific for NY-ESO-1 and LAGE-1 antigens is well tolerated
- The duration of response is better than would be expected with transplant alone
- Toxicity related to cytokine release syndrome has not been observed
- Prolonged persistence (without IL-2) and trafficking of cells to bone marrow were detected
- Initial data suggest infused cells remain functional, without exhaustion, and include a diversity of phenotypes
- Upregulation of PDL-1 in relapsed patients supports combination studies

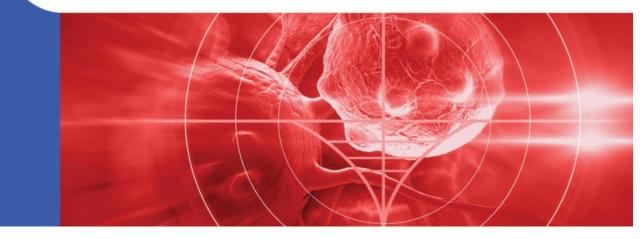


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UPDATE ON PROGRESS WITH NY-ESO TCR APRIL 22, 2016

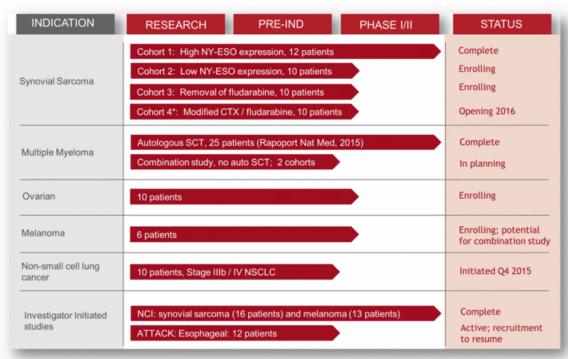
Rafael Amado, M.D. Chief Medical Officer





INDUSTRY-LEADING TCR PIPELINE IN SOLID AND HEMATOLOGIC CANCERS

ONGOING PROGRAMS FOR NY-ESO



Manager Adaptimmune

*Pending analysis of cohort 3

INDUSTRY-LEADING TCR PIPELINE IN SOLID AND HEMATOLOGIC CANCERS

ONGOING PROGRAMS FOR NY-ESO

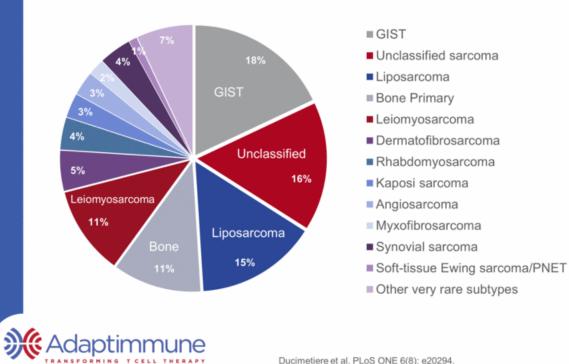


Adaptimmune

*Pending analysis of cohort 3

SARCOMAS

A DIVERSE COLLECTION OF UNCOMMON MESENCHYMAL TUMORS



Ducimetiere et al. PLoS ONE 6(8): e20294. doi:10.1371/journal.pone.0020294. epub AUG 2011

SARCOMA DEMOGRAPHICS AND MORTALITY

RELAPSED METASTATIC SOFT TISSUE SARCOMA REPRESENTS AN UNMET MEDICAL NEED

Disease	Incidence US/EU	Annual Mortality US/EU	
Synovial Sarcoma & Myxoid Round Cell Liposarcoma	2,400-3,000	840-1,050	

Breakthrough Designation: Granted in the U.S. on February 4, 2016

"for the treatment of HLA-A*0201, HLA-A*0205, HLA-A*0206 allele-positive patients with inoperable or metastatic synovial sarcoma who have received prior chemotherapy and whose tumor expresses the NY-ESO-1 tumor antigen"

Orphan Designation: Granted in the U.S. on March 29, 2016

"autologous CD4+/CD8+ NY-ESO-1^{c259}-T cells for the treatment of soft tissue sarcoma"



MYXOID ROUND CELL LIPOSARCOMA

NEXT SOFT TISSUE SARCOMA TO BE STUDIED WITH ADAPTIMMUNE'S NY-ESO-1 TCR

- Represent 30-35% of all liposarcomas; 10% of all soft tissue sarcomas
- 80-90% express NY-ESO at high levels
- Characterized by chromosomal translocation (t(12;16)(q13;p11); as in the case of synovial sarcomas, it allows for accurate diagnosis)
- Present primarily in the extremities, particularly the thigh, and in the trunk and retroperitoneum
- Localized disease is managed with surgery, radiation and chemotherapy
- One third of patients develop metastatic disease with multifocal spread, commonly to the bone and lungs.
- Chemotherapy has a limited, non-curative role in metastatic disease

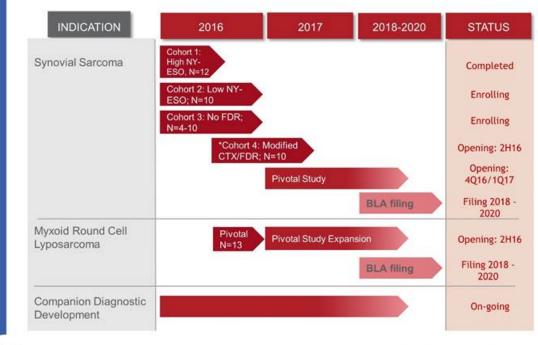


WHO Classification: https://www.iarc.fr/en/publications/pdfs-online/patgen/bb5/bb5-classifsofttissue.pdf 127

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NY-ESO CLINICAL PROGRAM UPDATE

REGISTRATION IN SOFT TISSUE SARCOMA

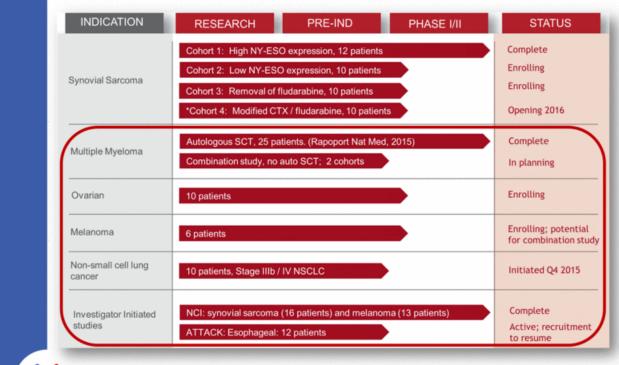




*Pending analysis of cohort 3

INDUSTRY-LEADING TCR PIPELINE IN SOLID AND HEMATOLOGIC CANCERS

ONGOING PROGRAMS FOR NY-ESO

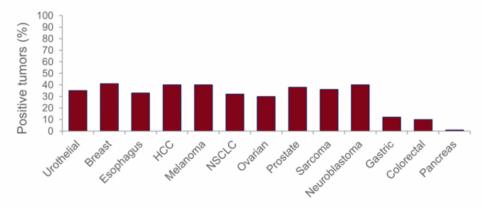


XAdaptimmune

*Pending analysis of cohort 3

NY-ESO EXPRESSION ACROSS TUMOR TYPES

NY-ESO-1 IS EXPRESSED AT LOW TO MEDIUM LEVELS ACROSS A WIDE RANGE OF TUMORS



Estimated Annual Deaths*

	Melanoma	Ovarian	NSCLC	Myeloma
US ¹	9,940	14,180	158,040	11,240
EU ²	12,051	42,716	254,532	12,213

* HLA02 represents approx. 40-50% of these patients



Source: seer.cancer.gov
 Source: eco.iarc.fr/eucan
 131

NY-ESO PROGRAM

2016 DEVELOPMENT MILESTONES AND DATA FLOW

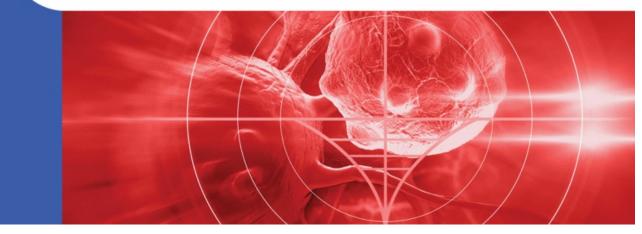
COMPLETED	TARGET DATE	MILESTONE
\checkmark	1H 2016	Breakthrough designation for NY-ESO in synovial sarcoma
\checkmark	2H 2016	Orphan drug designation for NY-ESO in soft tissue sarcoma
	4Q 2016	Additional phase I/II data from clinical studies in: •Sarcoma •Myeloma •Lung •Ovarian •Melanoma
	2H 2016	Initiation of first combination study
	2H 2016	Initiation of Myxoid Round Cell Liposarcoma Study
	4Q16/1Q17	Initiation of pivotal synovial sarcoma study



ADAPTIMMUNE INVESTOR AND ANALYST DAY 2016

ACCELERATING ADAPTIMMUNE'S WHOLLY-OWNED CLINICAL PIPELINE APRIL 22, 2016





NY-ESO CLINICAL PROGRAM UPDATE

DEEP PIPELINE OF WHOLLY-OWNED TCRs

INDICATION	RESEARCH	PRE-IND	PHASE I/II	STATUS
Non-Small Cell Lung Cancer (NSCLC)	MAGE-A10 TCR dose	escalation		Initiated Q4 2015
Urothelial Melanoma Head and neck	MAGE-A10 TCR			Initiate in 2016
Hepatocellular cancer	AFP TCR		•	IND open; enrollment in 2016
Multiple cancer types	MAGE-A4 TCR			RAC and IND submission in 2017
Multiple cancer types	Generation 2 and 3 TC	Rs		INDs in 2017+
Multiple cancer types	Undisclosed			INDs from 2017+



CANCER TESTIS EXPRESSION

BROAD COVERAGE OF MANY CANCERS WITH ADAPTIMMUNE'S EXISTING TCR PIPELINE

		Frequ	ency (%
Indication	NY-ESO-1	MAGE-A10	
Lung Squamous Cell	26	33	
Bladder Cancer	26	31	
Cutaneous Melanoma	32	29	
Head and Neck	11	14	
Ovarian Cancer	13	12	
TN breast cancer	19	10	
Endometrial Cancer	7	7	
Esophageal Cancer	11	18	
Gastric and Esophageal Cancer	11	17	
Lung Adenocarcinoma	12	10	
Cervical Cancer	4	7	
Breast Cancer (all)	5	3	

Source: TGCA RNAseq datasets





CANCER TESTIS EXPRESSION

BROAD COVERAGE OF MANY CANCERS WITH ADAPTIMMUNE'S EXISTING TCR PIPELINE

		Frequ	ency (%)
Indication	NY-ESO-1	MAGE-A10	MAGE-A4
Lung Squamous Cell	26	33	64
Bladder Cancer	26	31	38
Cutaneous Melanoma	32	29	23
Head and Neck	11	14	44
Ovarian Cancer	13	12	38
TN breast cancer	19	10	26
Endometrial Cancer	7	7	17
Esophageal Cancer	11	18	36
Gastric and Esophageal Cancer	11	17	32
Lung Adenocarcinoma	12	10	12
Cervical Cancer	4	7	23
Breast Cancer (all)	5	3	7

Source: TGCA RNAseq datasets





CANCER TESTIS EXPRESSION

BROAD COVERAGE OF MANY CANCERS WITH ADAPTIMMUNE'S EXISTING TCR PIPELINE

	Frequency (%)			
Indication	NY-ESO-1	MAGE-A10	MAGE-A4	Expression by 1 or more
Lung Squamous Cell	26	33	64	69
Bladder Cancer	26	31	38	50
Cutaneous Melanoma	32	29	23	48
Head and Neck	11	14	44	46
Ovarian Cancer	13	12	38	44
TN breast cancer	19	10	26	35
Endometrial Cancer	7	7	17	21
Esophageal Cancer	11	18	36	40
Gastric and Esophageal Cancer	11	17	32	35
Lung Adenocarcinoma	12	10	12	19
Cervical Cancer	4	7	23	26
Breast Cancer (all)	5	3	7	11

Source: TGCA RNAseq datasets





WHOLLY-OWNED PIPELINE

2016 DEVELOPMENT MILESTONES AND DATA FLOW

COMPLETED	TARGET DATE	MILESTONE
\checkmark	1H 2016	File and open IND for AFP TCR
	2H 2016	Complete enrollment in NSCLC dose-escalation study for MAGE-A10
	2H 2016	Initiate AFP clinical study
	2H 2016	Initiate MAGE-A10 multi-tumor study
	2017	File IND for MAGE-A4



SUMMARY

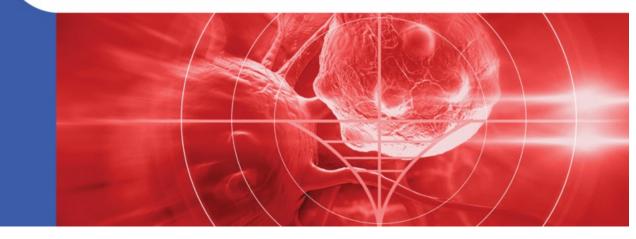
- Rapid progress with NY-ESO-1 in sarcoma, anticipate initiating pivotal trials around year end 2016
- Multiple studies examining efficacy of NY-ESO-1 in additional indications
- Expect to initiate combination trials with NY-ESO-1 and checkpoint inhibitor in 2016
- Broad tumor coverage across Adaptimmune's clinical pipeline
- Delivering on internal pipeline; 2 active INDs in the past 8 months
 - MAGE-A10 study in bladder cancer, head and neck cancer and melanoma, in addition to the ongoing NSCLC study
 - Open IND with AFP TCR; enrollment to start in 2016
- Next IND in 2017: MAGE-A4
 - High level of expression in multiple tumor types



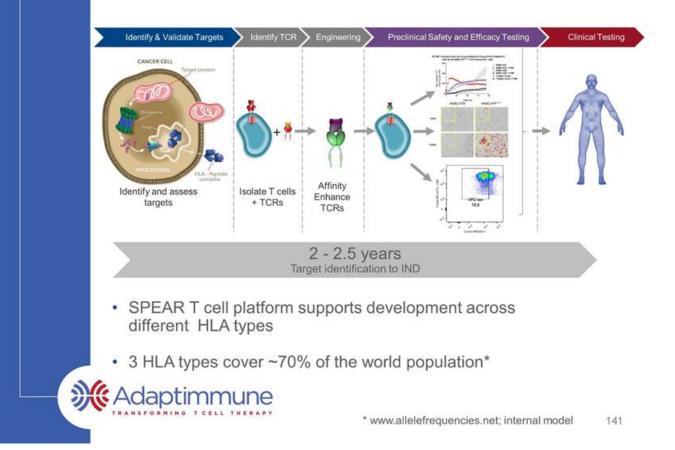
ADAPTIMMUNE PIPELINE ENGINE: AN ABUNDANCE OF POTENTIAL TARGETS AND PRECLINICAL CANDIDATES APRIL 22, 2016

Gwen Binder-Scholl, Ph.D. Chief Technology Officer

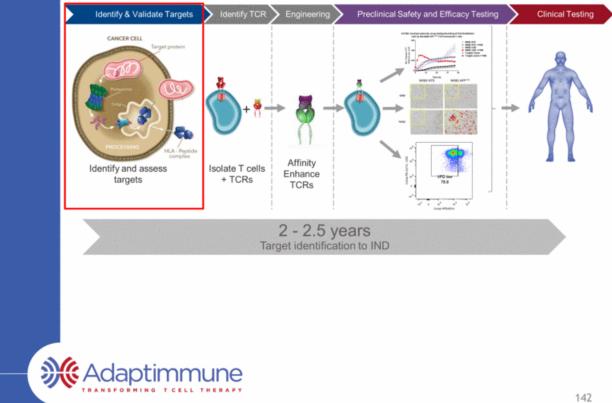


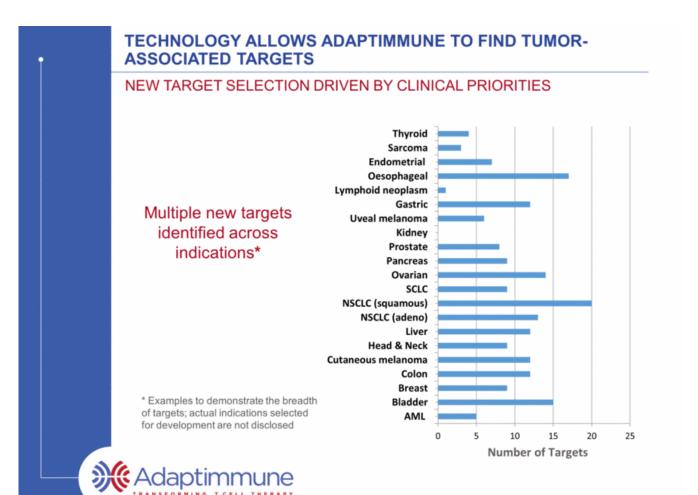


TCR IDENTIFICATION AND TESTING - THE PIPELINE ENGINE



TCR IDENTIFICATION AND TESTING – THE PIPELINE ENGINE





Cancer indication	Top 3 Targets Identified for Each Indication (%) TCGA				
	Target 1	Target 2	Target 3		
Sarcoma	(30%)	(21%)			
Endometrial		(23%)			
sophageal	(72%)		(38%)		
ymphoid neoplasm	(29%)	(25%)	(25%)		
Gastric	(51%)		(45%)		
Jveal melanoma	(100%)	(100%)	(100%)		
Prostate					
Pancreatic					
Dvarian					
ung AD		(34%)	(34%)		
ung SqCC		(47%)			
iver HCC		(36%)	(34%)		
Head and Neck SCC		(40%)	(38%)		
Skin Cutaneous Melanoma	(88%)	(87%)			
Colon					
Breast					
Bladder			(40%)		
AML					



Key:

Target - New targets due assessment (peptides identified)

Cancer indication	Top 3 Targets Identified for Each Indication (%) TCGA				
	Target 1	Target 2	Target 3		
Sarcoma	(30%)	(21%)	(17%)		
Endometrial	(27%)	(23%)			
Esophageal	(72%)		(38%)		
Lymphoid neoplasm	(29%)	(25%)	(25%)		
Gastric	(51%)		(45%)		
Jveal melanoma	(100%)	(100%)	(100%)		
Prostate	(100%)		(90-95%)		
Pancreatic	(54%)		(37%)		
Dvarian	(54%)				
ung AD		(34%)	(34%)		
ung SqCC		(47%)	(46%)		
iver HCC		(36%)	(34%)		
Head and Neck SCC		(40%)	(38%)		
Skin Cutaneous Melanoma	(88%)	(87%)			
Colon	(55%)	(32%)			
Breast	(63%)	(41%)	(25%)		
Bladder			(40%)		
AML	(73%)	(50%)			

Key:



Target - New targets due assessment (peptides identified)

Target - Targets in assessment

Cancer indication	Top 3 Targets Identified for Each Indication (%) TCGA			
	Target 1	Target 2	Target 3	
Sarcoma	(30%)	(21%)	(17%)	
Endometrial	(27%)	(23%)		
Esophageal	(72%)	(40%)	(38%)	
Lymphoid neoplasm	(29%)	(25%)	(25%)	
Gastric	(51%)	(48%)	(45%)	
Uveal melanoma	(100%)	(100%)	(100%)	
Prostate	(100%)	(99%)	(90-95%)	
Pancreatic	(54%)	(49%)	(37%)	
Ovarian	(54%)			
Lung AD	(43%)	(34%)	(34%)	
Lung SqCC	(58%)	(47%)	(46%)	
Liver HCC	(44%)	(36%)	(34%)	
Head and Neck SCC	(44%)	(40%)	(38%)	
Skin Cutaneous Melanoma	(888)	(87%)		
Colon	(55%)	(32%)		
Breast	(63%)	(41%)	(25%)	
Bladder	(50%)	(41%)	(40%)	
AML	(73%)	(50%)		



Key:

Target - New targets due assessment (peptides identified)

Target - Targets in assessment

Target – Targets with TCRs in the discovery/optimisation programme

Cancer indication	Top 3 Targe	ts Identified for Each Indication	on (%) TCGA
	Target 1	Target 2	Target 3
Sarcoma	(30%)	(21%)	(17%)
Endometrial	(27%)	(23%)	
Esophageal	(72%)	(40%)	(38%)
Lymphoid neoplasm	(29%)	(25%)	(25%)
Gastric	(51%)	(48%)	(45%)
Uveal melanoma	(100%)	(100%)	(100%)
Prostate	(100%)	(99%)	(90-95%)
Pancreatic	(54%)	(49%)	(37%)
Ovarian	(54%)		
Lung AD	(43%)	(34%)	(34%)
Lung SqCC	(58%)	(47%)	(46%)
Liver HCC	(44%)	(36%)	(34%)
Head and Neck SCC	(44%)	(40%)	(38%)
Skin Cutaneous Melanoma	(88%)	(87%)	
Colon	(55%)	(32%)	
Breast	(63%)	(41%)	(25%)
Bladder	(50%)	(41%)	(40%)
AML	(73%)	(50%)	

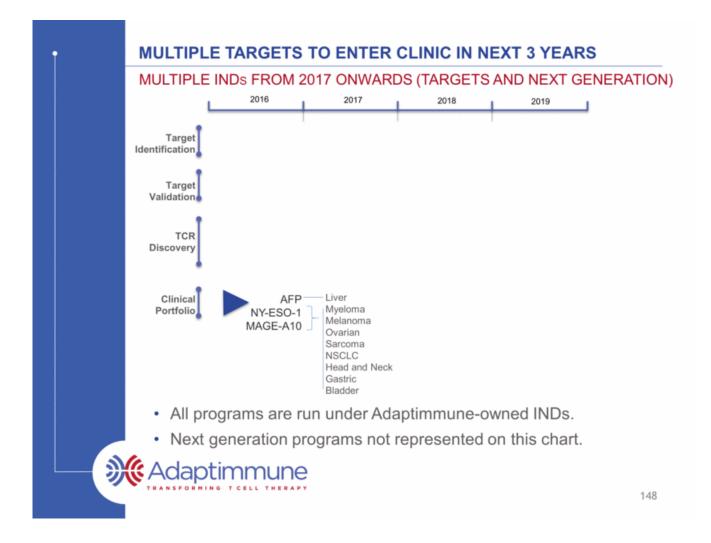


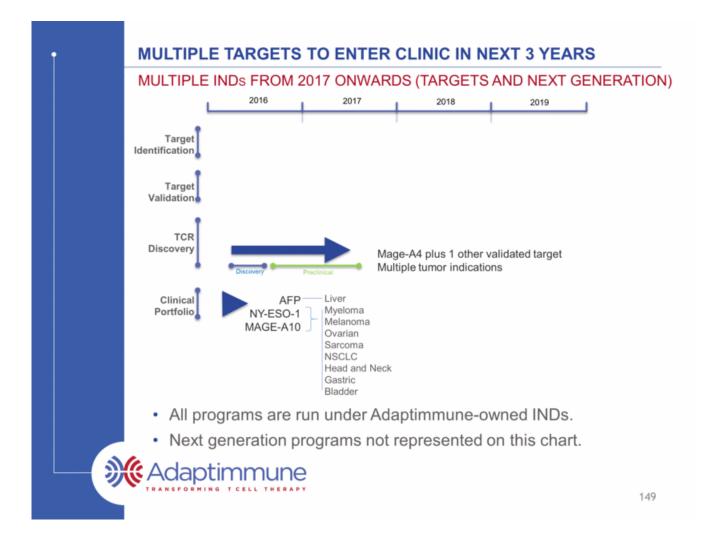
Key:

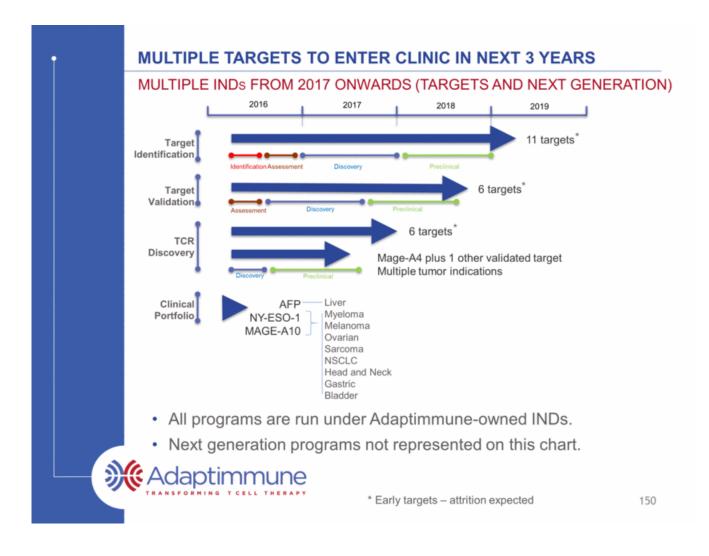
Target - New targets due assessment (peptides identified)

Target - Targets in assessment

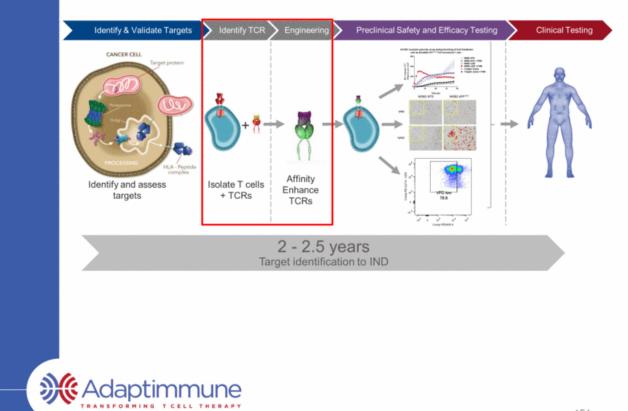
Target – Targets with TCRs in the discovery/optimisation programme Blue – Cancer Testis Antigens





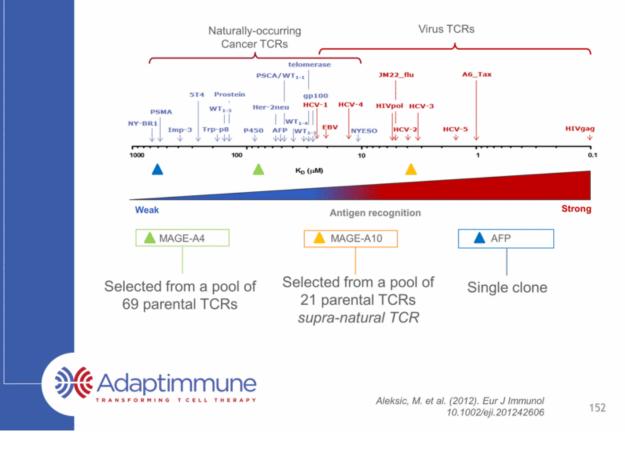


TCR IDENTIFICATION AND TESTING – THE PIPELINE ENGINE



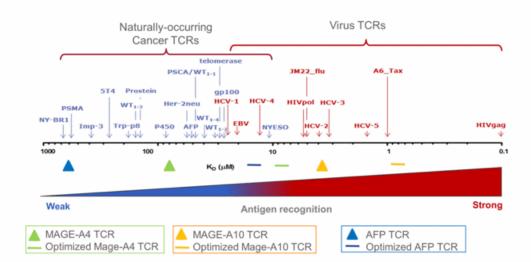
CANCER ANTIGEN SPECIFIC TCRs FROM CLONES AND LIBRARIES

ORIGINAL ISOLATES DISPLAY A WIDE RANGE OF AFFINITIES





INDEPENDENT OF STARTING AFFINITY, OPTIMIZATION IS RELEVANT



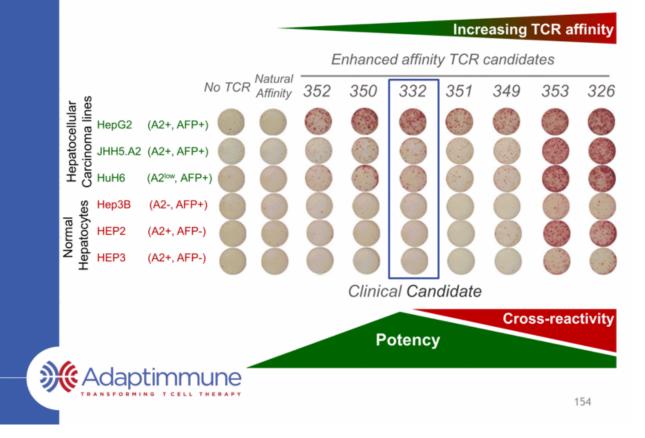
- Having multiple parental TCRs to start from allows selection of the most specific TCR.
- The ideal affinity is different for each TCR and not possible to predict.



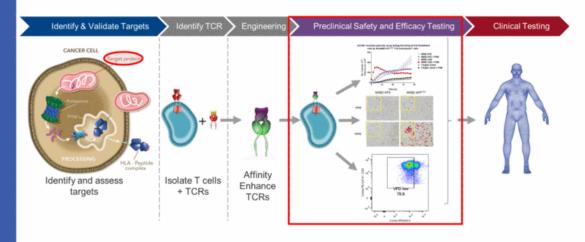
Aleksic, M. et al. (2012). Eur J Immunol 10.1002/eji.201242606 153

EACH TCR HAS A WINDOW OF ENHANCED POTENCY

IT IS POSSIBLE TO OVER-ENGINEER - THIS IS CAREFULLY MONITORED

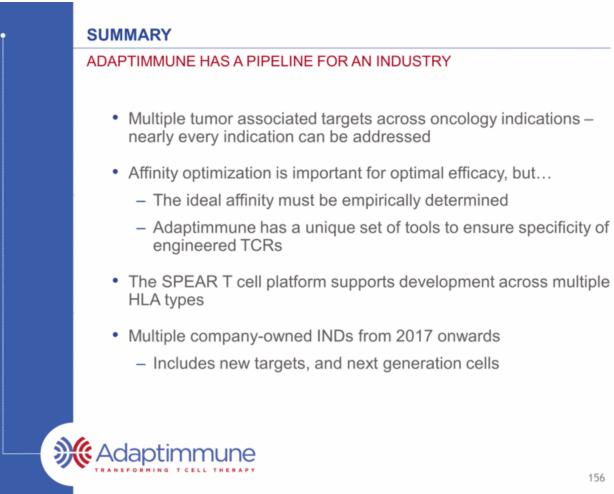


TCR IDENTIFICATION AND TESTING – THE PIPELINE ENGINE



- TCR specificity is mapped by X-scanning
- Alloreactivity and further TCR specificity tested in cell-based assays
- Potency tested in primary tumor and tumor cell lines





ADAPTIMMUNE SCIENTIFIC ADVISORY BOARD



Crystal Mackall, M.D., Chair, Adaptimmune Scientific Advisory Board; Professor of Pediatrics and Medicine; Associate Director of the Stanford Cancer Institute



Nabil Ahmed, M.D., Associate Professor, Department of Pediatrics, Texas Children's Hospital, Texas Children's Cancer Center; Center for Cell and Gene Therapy, Houston Methodist Hospital, Baylor College of Medicine



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Keith Flaherty, M.D., Keith Flaherty, M.D., Professor, Medicine, Harvard Medical School; Director of Termeer Center for Target Therapy, Cancer Center, Massachusetts General Hospital



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Arlene Sharpe, M.D., Ph.D., Fabyan Professor of Comparative Pathology, Microbiology and Immunobiology, Harvard Medical School Vice Chair for Education, Pathology, Harvard Medical School; Co-Director, The Harvard Institute of Translational Immunology (HITI)

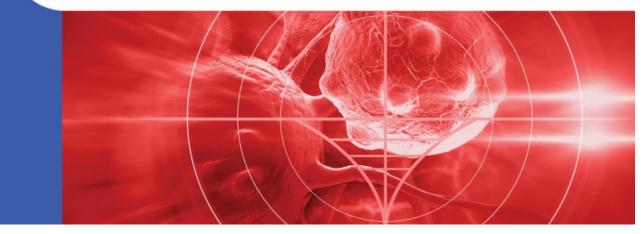
Mario Sznol, M.D., Professor, Internal Medicine; Leader, Disease-Related Research Team, Melanoma and Renal cell Carcinoma; Vice-Chief, Medical Oncology; Co-Director, Yale Skin SPORE, Yale Cancer Center

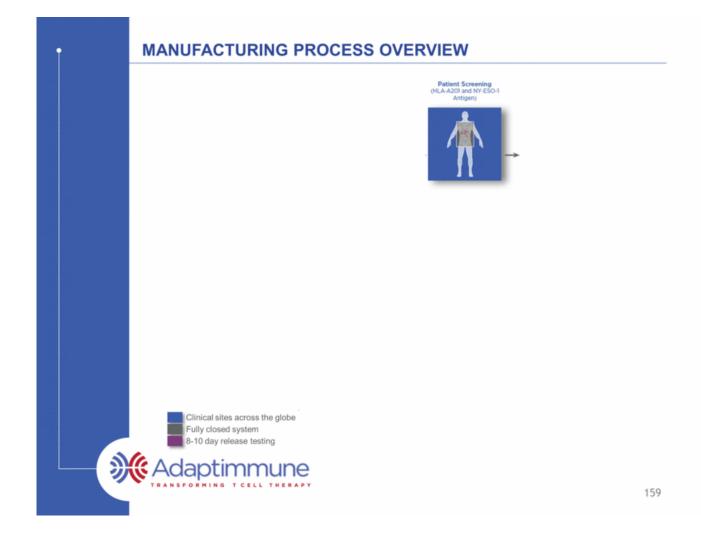


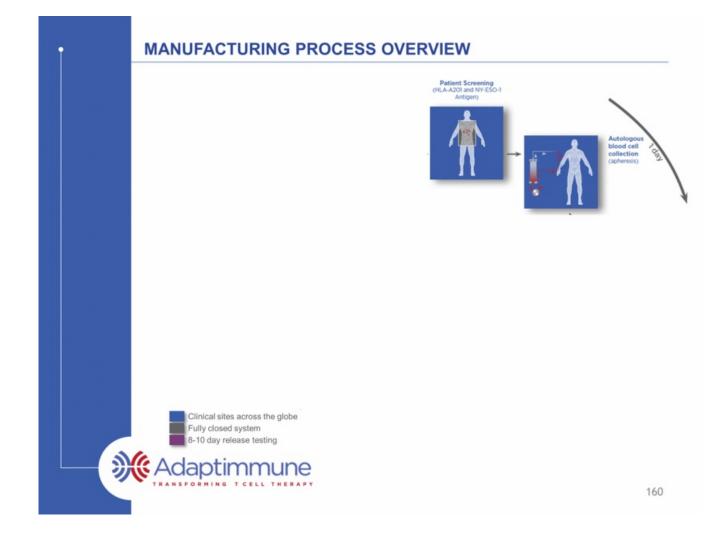
ADAPTIMMUNE INVESTOR AND ANALYST DAY 2016

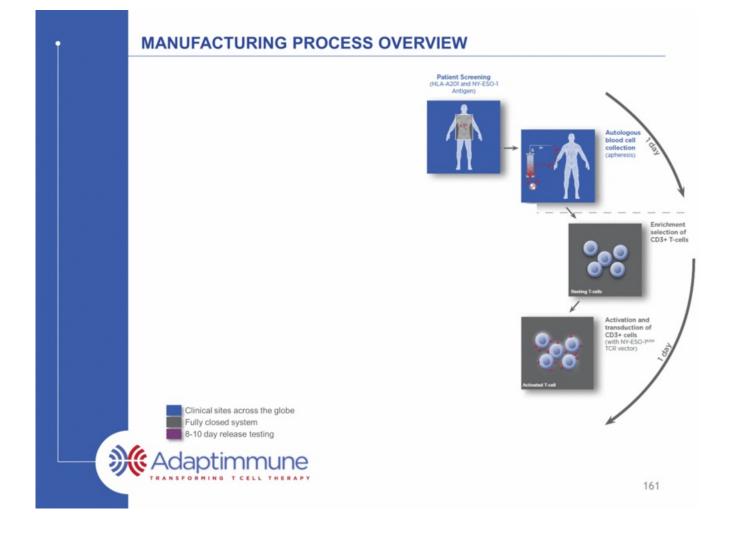
MANUFACTURING EXCELLENCE AND COMMERCIAL DELIVERY APRIL 22, 2016

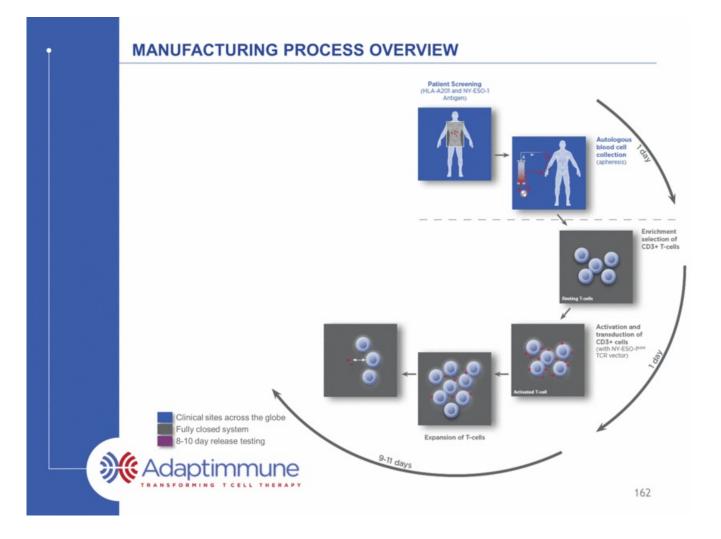




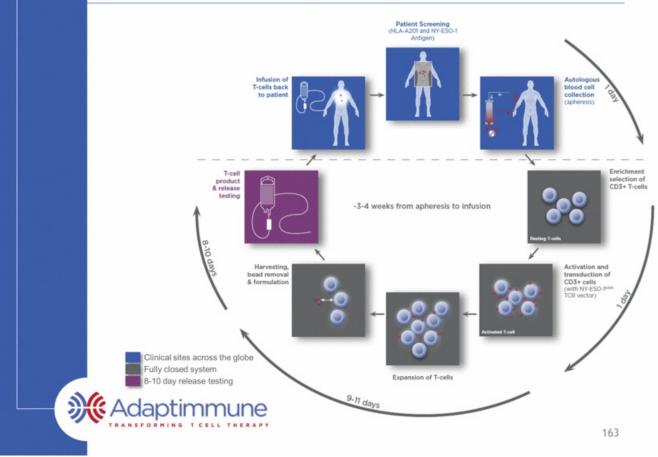








MANUFACTURING PROCESS OVERVIEW



INITIALLY DEVELOPED AT UNIVERSITY OF PENNSYLVANIA*

		Academic process
	Commercial expansion method	\checkmark
Cell		
	Automation of some process steps	
	Automation of most / all process steps	
	Academic vector backbone	\checkmark
Vector	Academic vector production – fixed scale	\checkmark
	Proprietary vector production - fixed scale Fully scalable vector	

*Levine et al, J Immunol, 1997

BROUGHT IN HOUSE IN 2013 - MINIMAL CHANGES WITH GREATER CONTROL

		Academic process	Adaptimmune process
	Commercial expansion method	\checkmark	\checkmark
	Fully closed system		\checkmark
	Industry standard Good Manufacturing Practices		1
Cell	Contract manufacturer – fully controlled and owned process		1
	Academic vector backbone	\checkmark	\checkmark
Vector	Academic vector production – fixed scale	\checkmark	\checkmark
Ada	ptimmune	2006	2013

*

ANSFORMING T CELL THERAPY

OPTIMIZED FOR COMMERCIAL USE AND OPENING A COMMERCIAL FACILITY

		Academic process	Adaptimmune process	Commercial ready process
	Commercial expansion method	\checkmark	V	\checkmark
	Fully closed system		\checkmark	\checkmark
	Industry standard Good Manufacturing Practices		\checkmark	\checkmark
Cell	Contract manufacturer – fully controlled and owned process		\checkmark	\checkmark
	Freeze both ends			\checkmark
	Wholly owned facility			\checkmark
	Automation of some process steps			\checkmark
	Academic vector backbone	\checkmark	\checkmark	
Vector	Academic vector production – fixed scale	\checkmark	V	
	Proprietary vector backbone			\checkmark
	Proprietary vector production - fixed scale			\checkmark
	Fully scalable vector production			
Ada	ptimmune	2006	2013	2016 - 2017

NEXT GENERATION IMPROVEMENTS UNDERWAY

		Academic process	Adaptimmune process	Commercial ready process	Next generatio process
	Commercial expansion method	\checkmark	\checkmark	\checkmark	\checkmark
	Fully closed system		V	\checkmark	\checkmark
	Industry standard Good Manufacturing Practices		V	\checkmark	\checkmark
Cell	Contract manufacturer – fully controlled and owned process		\checkmark	\checkmark	1
	Freeze both ends			V	\checkmark
	Wholly owned facility			V	V
	Automation of some process steps			\checkmark	\checkmark
	Automation of most / all process steps				\checkmark
	Academic vector backbone	\checkmark	\checkmark		
Vector	Academic vector production – fixed scale	\checkmark	V		
	Proprietary vector backbone			\checkmark	\checkmark
	Proprietary vector production - fixed scale			\checkmark	
	Fully scalable vector production				\checkmark
Ada	ptimmune	2006	2013	2016 - 2017	2018 167

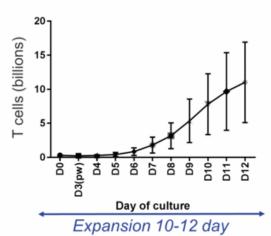
KEY OBJECTIVES OF EX VIVO T CELL MANUFACTURING

- Select the right T cells for anti-tumor efficacy
- Gene modify and activate / rejuvenate these T cells to generate potency
- Expand these T cells to meet the target dose for patients
- Build in manufacturing flexibility freeze the product at both ends

Adaptimmune's manufacturing meets these objectives

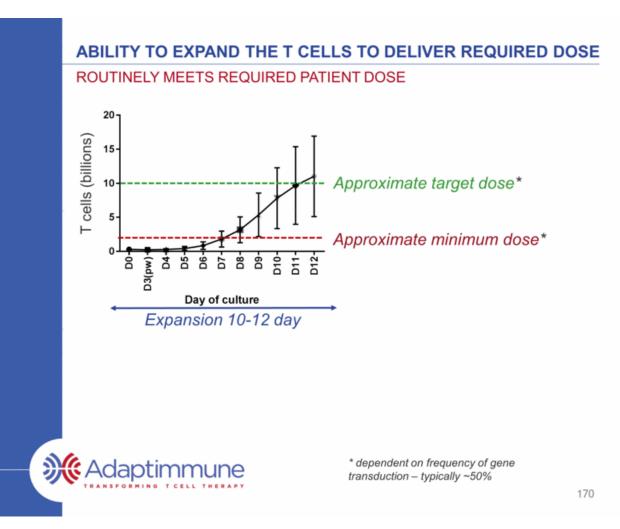


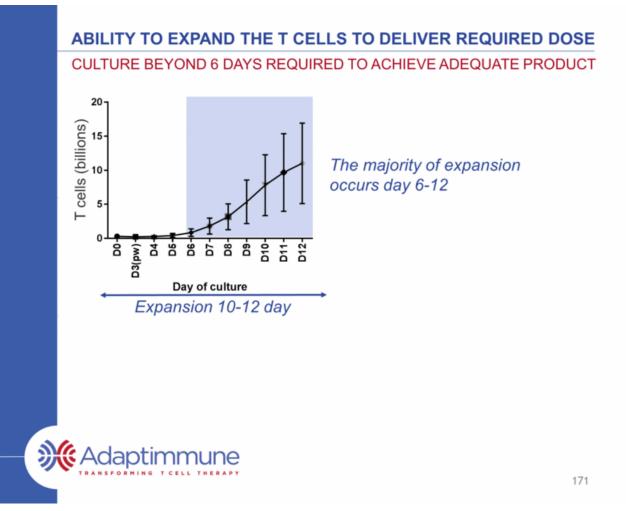
ABILITY TO EXPAND THE T CELLS TO DELIVER REQUIRED DOSE T CELLS EXPANDED ON AVERAGE 40-FOLD IN EX VIVO CULTURE

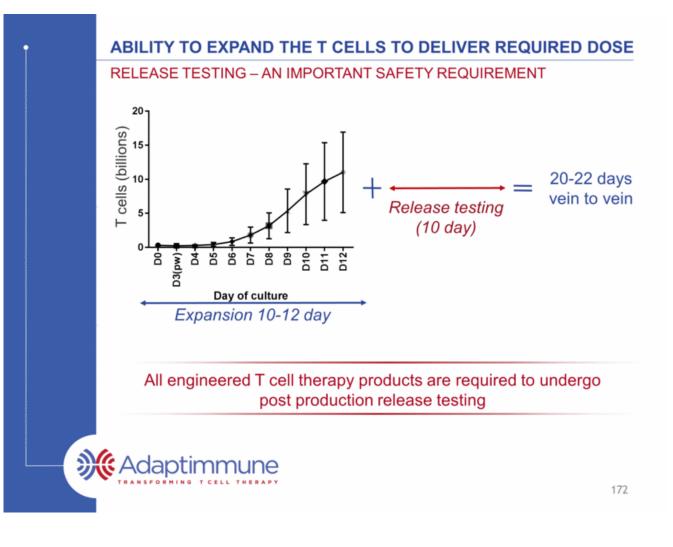


MAdaptimmune

- Minimizes vector usage at culture start (cost of goods reduction)
- Apheresis always yields sufficient cells for manufacture
- Target patient dose routinely achieved





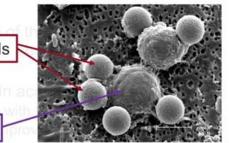


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MANUFACTURING THE BEST T CELLS

METHODS OF MANUFACTURING

- T cells are expanded through trig peles second signal (to overcome toler beads
- Original manufacturing method used in – Anti-CD3 (TCR signal) antibody Order of – Exogenous feeder cells often at T cell
- Commercial method:

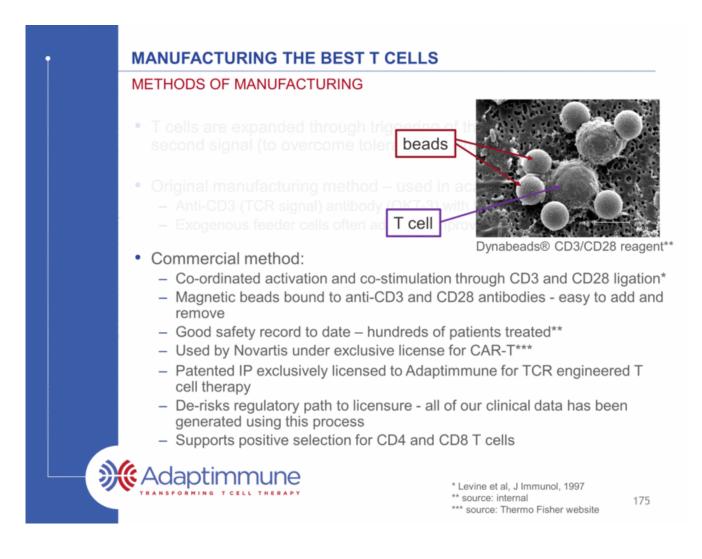


Dynabeads® CD3/CD28 reagent**

- Co-ordinated activation and co-stimulation through CD3 and CD28 ligation*
- Magnetic beads bound to anti-CD3 and CD28 antibodies easy to add and remove
- Good safety record to date hundreds of patients treated**
- Used by Novartis under exclusive license for CAR-T***



* Levine et al, J Immunol, 1997 ** source: internal *** source: Thermo Fisher website



MANUFACTURING THE BEST T CELLS

THE IMPORTANCE OF T CELL ACTIVATION WITH CO-STIMULATION

Benefits of the CD3/28 method (compared to anti-CD3 with IL-2)

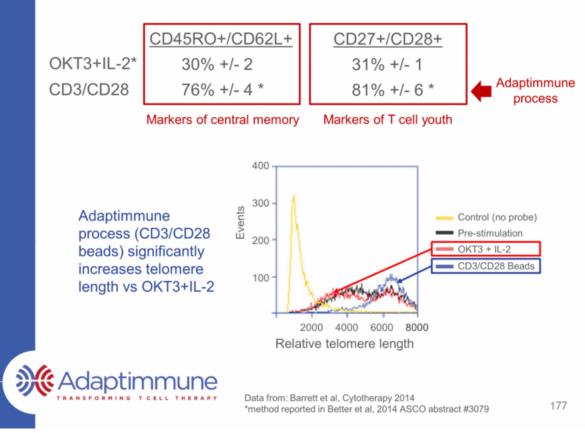
- Have a higher telomerase activity
- Are younger (cells express the CD27+ and CD28+ markers)
- Have longer telomeres and greater replicative potential
- Have more of a central memory profile
- Have lower levels of senescence



Source: Better et al, 2014 ASCO abstract #3079 (Kite); Weng et al, JExpMed (1996)); Hamann et al, J Exp Med (1997); and Azuma, Phillips and Lanier, J Immunol (1993); Barrett et al, Cytotherapy (2014)



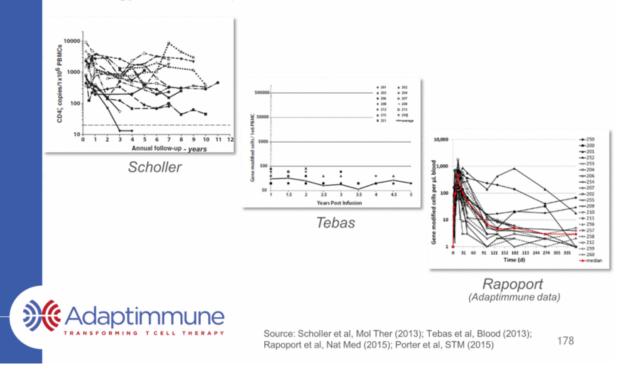
THE BENEFITS OF SIMULTANEOUS STIMULATION AND CO-STIMULATION

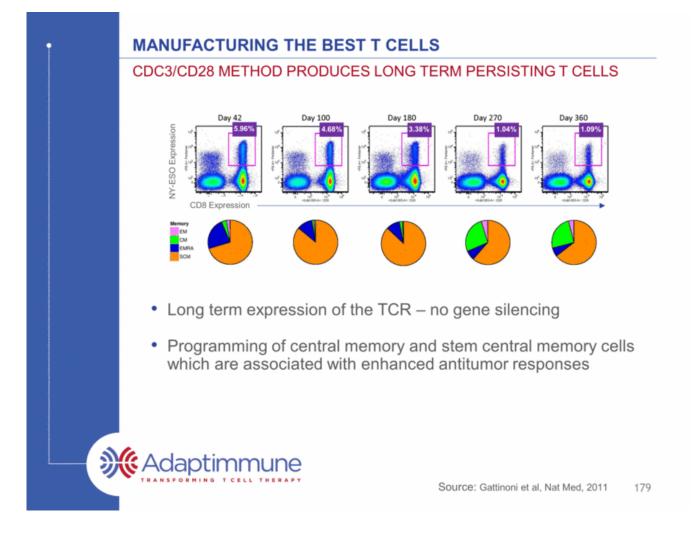


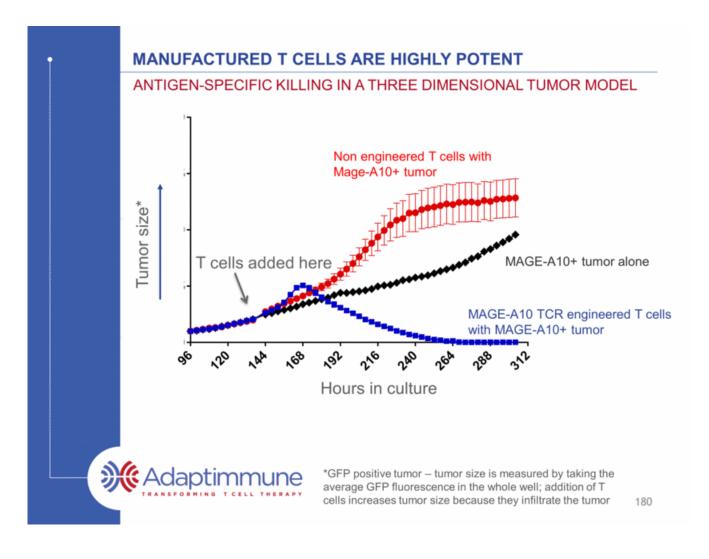
MANUFACTURING THE BEST T CELLS

CD3/CD28 BEAD METHOD PRODUCES LONG TERM PERSISTING T CELLS

CAR and TCR products associated with long term persistence use this technology; some examples...

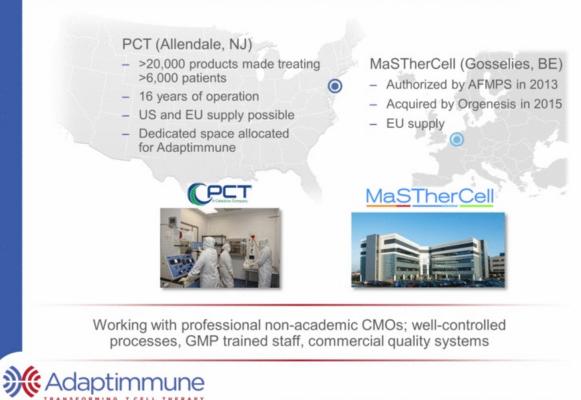






MEETING CLINICAL SUPPLY

EXPERIENCED, INDUSTRY-LEADING CONTRACT MANUFACTURERS



Source: www.pctcaladrius.com; www.masthercell.com 181

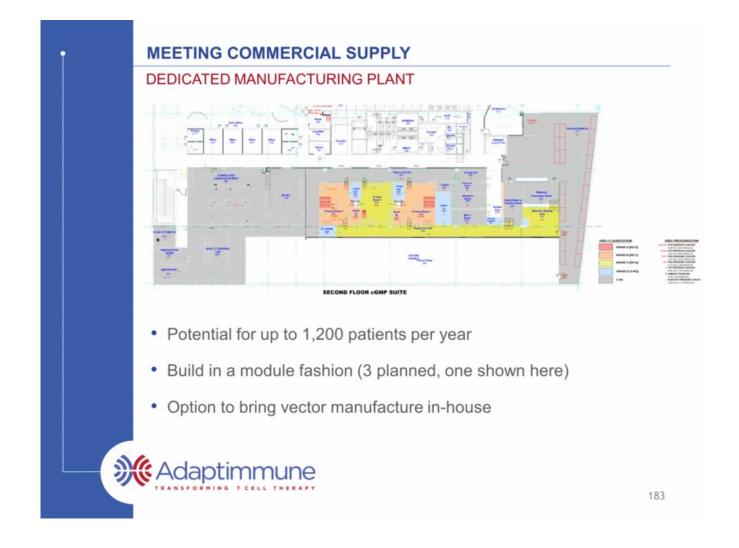
MEETING COMMERCIAL SUPPLY

DEDICATED MANUFACTURING PLANT – OPENING EARLY 2017



- Located in the Philadelphia Navy Yard Biotechnology Park
- 10 minutes from the Philadelphia Airport; ideal for product logistics

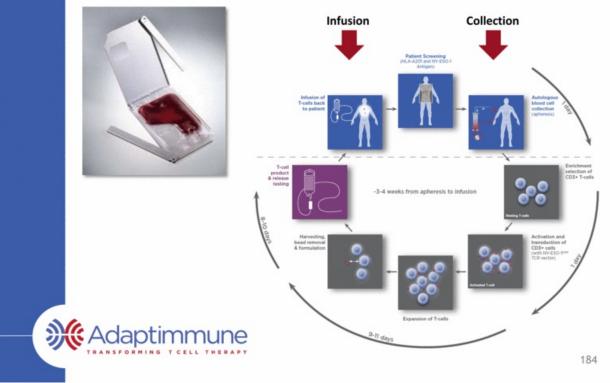


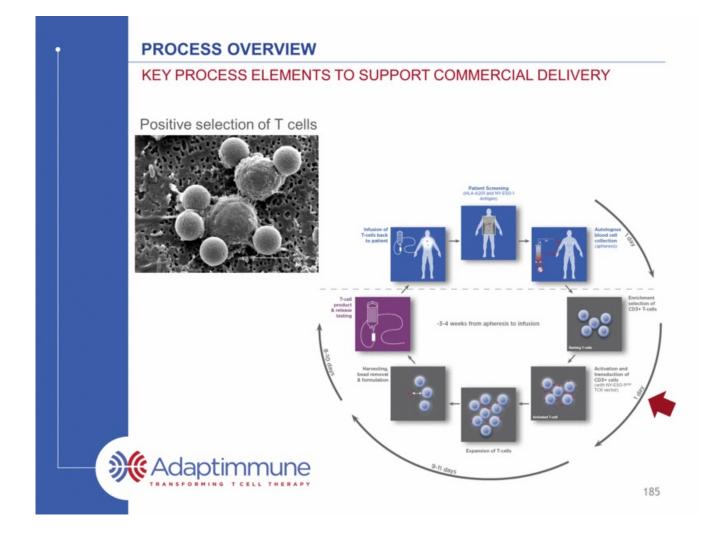


PROCESS OVERVIEW

KEY PROCESS ELEMENTS TO SUPPORT COMMERCIAL DELIVERY

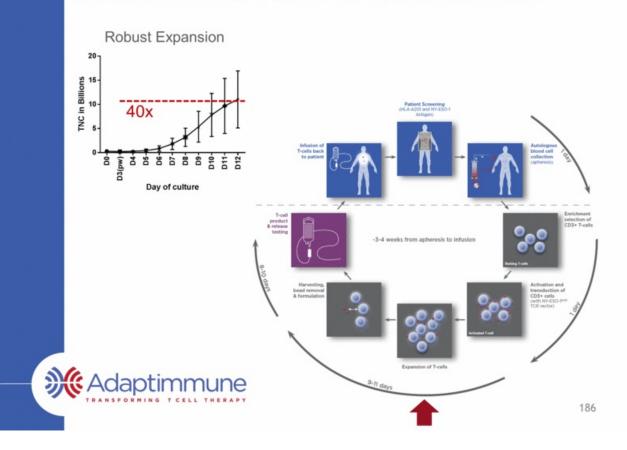
Freeze at both ends enables flexible manufacturing scheduling

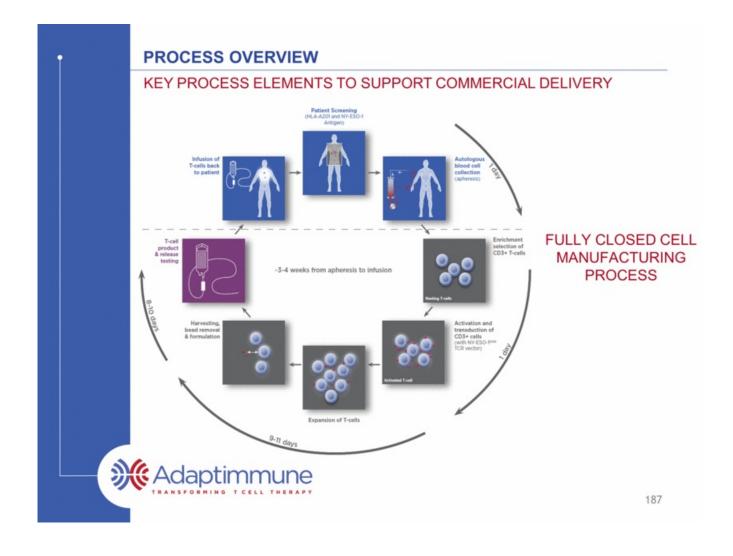




PROCESS OVERVIEW

KEY PROCESS ELEMENTS TO SUPPORT COMMERCIAL DELIVERY





INCORPORATING AUTOMATION IN THE CELL PROCESS REDUCES COST AND PROMOTES CONSISTENCY Patient Screening HLA-A201 and NY-ESO Automate most complex steps • Retain flexibility in any automation plan, as the process will -3-4 weeks from . evolve with emerging scientific findings T cell harvest T cell isolation and transduction **X**Adaptimmune

OPTIMIZING TRANSFER OF TCR TO THE CELLS LENTIVIRAL VECTOR EFFICIENTLY DELIVERS TCR TO T CELLS • Well established safety profile in T cells - no cases of insertional oncogenesis · Efficient transduction at low vector input per cell (multiplicity of infection of 1 unit per cell) • Optimized backbone for safety - WPRE removed to reduce perceived safety risks 1 virus particle per T cell gene modification 100added (MOI=1) 80-60-40-20-% 0 **M**Adaptimmune 189 Source: Kingsman, Mitrophanous, Olsen, Gene Therapy 2005

MEETING LENTIVIRAL VECTOR COMMERCIAL SUPPLY CURRENT PROCESS IS COMMERCIAL READY; OPTIMIZATION ONGOING • Development of proprietary process for initial commercial supply - Optimized backbones for transfer vector and packaging plasmids - Developed upstream and downstream production methods Purification Transfoct HEK293T-cells Collect Supernatant UPSTREAM DOWNSTREAM · Dedicated process development group to maximize production yield - Adapt this process to scalable bioreactors - Establish a packaging cell line to enable continuous production in bioreactors Adaptimmune 190

BRINGING IT ALL TOGETHER FOR COMMERCIAL DELIVERY

		Academic process	Adaptimmune process	Commercial ready process
Cell	Commercial expansion method	\checkmark	\checkmark	\checkmark
	Fully closed system		\checkmark	\checkmark
	Industry standard Good Manufacturing Practices		V	V
	Contract manufacturer – fully controlled and owned process		V	V
	Freeze both ends			\checkmark
	Wholly owned facility			\checkmark
	Automation of some process steps			V
	Automation of most / all process steps			
Vector	Academic vector backbone	\checkmark	V	
	Academic vector production – fixed scale	\checkmark	V	
	Proprietary vector backbone			\checkmark
	Proprietary vector production - fixed scale			V

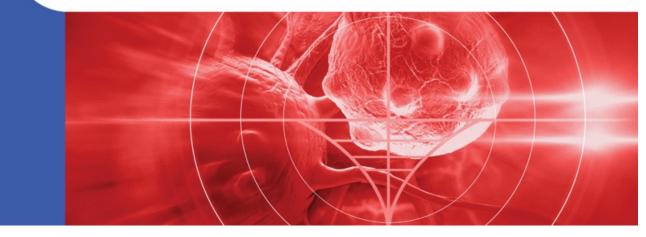


ADAPTIMMUNE INVESTOR AND ANALYST DAY 2016

CONCLUSION

James Noble Chief Executive Officer, Adaptimmune

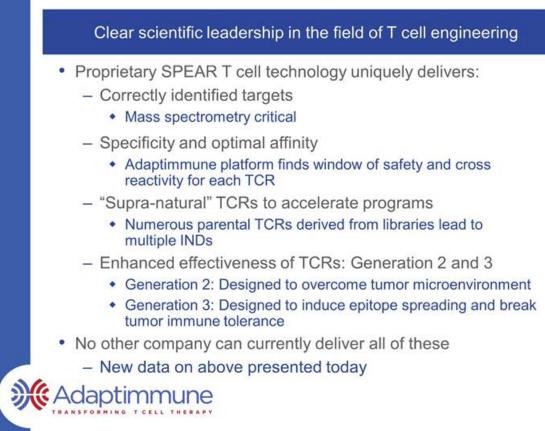


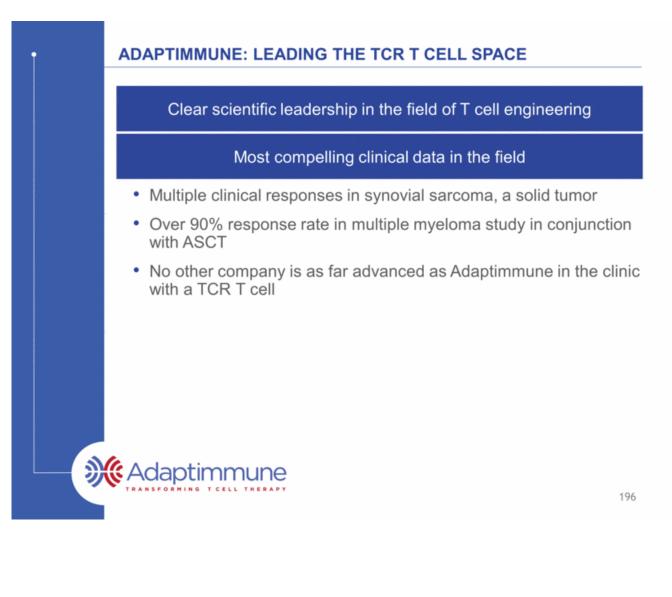


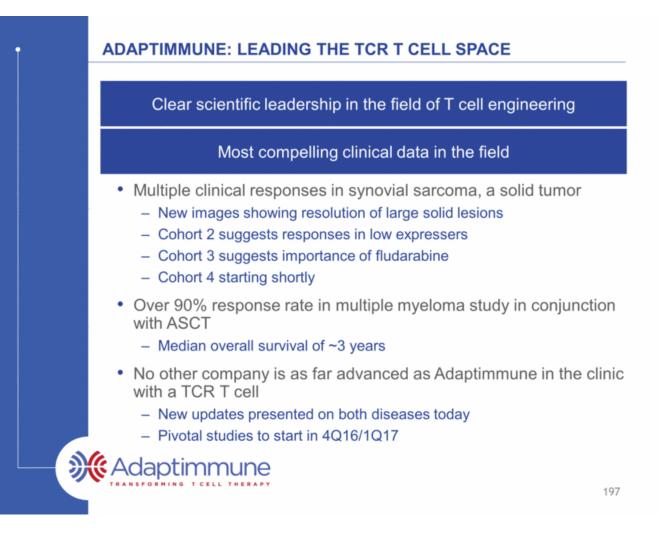
Clear scientific leadership in the field of T cell engineering

- Proprietary SPEAR T cell technology uniquely delivers:
 - Correctly identified targets
 - Specificity and optimal affinity
 - "Supra-natural" TCRs to accelerate programs
 - Enhanced effectiveness of TCRs: Generation 2 and 3
- No other company can currently deliver all of these









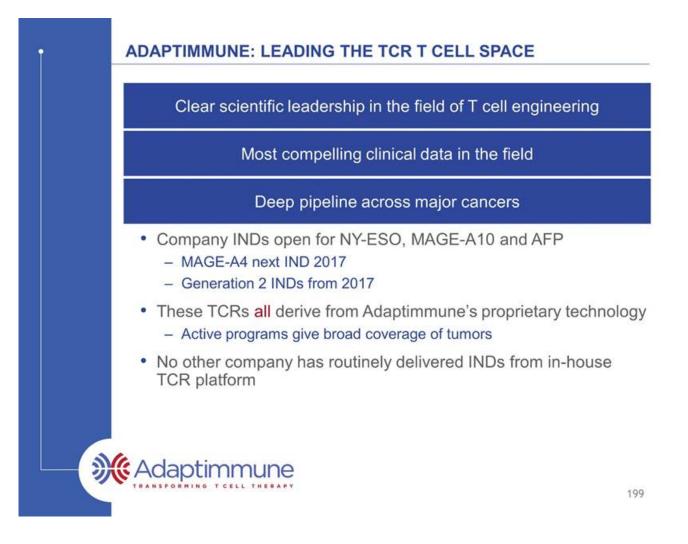
Clear scientific leadership in the field of T cell engineering

Most compelling clinical data in the field

Deep pipeline across major cancers

- Company INDs open for NY-ESO, MAGE-A10 and AFP
- These TCRs all derive from Adaptimmune's proprietary technology
- No other company has routinely delivered INDs from in-house TCR platform





Clear scientific leadership in the field of T cell engineering

Most compelling clinical data in the field

Deep pipeline across major cancers

Financial discipline and position to fund business



Clear scientific leadership in the field of T cell engineering

Most compelling clinical data in the field

Deep pipeline across major cancers

Financial discipline and position to fund business

- Total liquidity position of \$248 million*
- Current capital can fund the business through mid-2018



*As of December 31, 2015

Clear scientific leadership in the field of T cell engineering

Most compelling clinical data in the field

Deep pipeline across major cancers

Financial discipline and position to fund business

Proven ability to execute



Clear scientific leadership in the field of T cell engineering

Most compelling clinical data in the field

Deep pipeline across major cancers

Financial discipline and position to fund business

Proven ability to execute (1)

- Milestones met through April 2016
 - Expanded into autoimmune
 - Expanded strategic immunotherapy collaboration with GSK
 - Secured NY-ESO breakthrough therapy designation in synovial sarcoma
 - Secured NY-ESO orphan drug designation
 - IND opened for AFP in hepatocellular cancer

Adaptimmune

Clear scientific leadership in the field of T cell engineering

Most compelling clinical data in the field

Deep pipeline across major cancers

Financial discipline and position to fund business

Proven ability to execute (2)

- Manufacturing processes optimized
 - Proprietary T cell expansion method
 - Commercial-ready process in place
 - EU and US contract manufacturers in place



Clear scientific leadership in the field of T cell engineering

Most compelling clinical data in the field

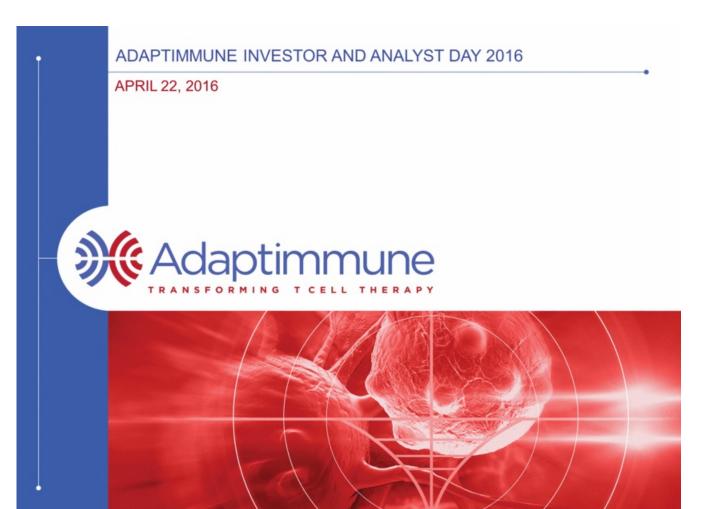
Deep pipeline across major cancers

Financial discipline and position to fund business

Proven ability to execute

Goal: first TCR T cell therapy to market







Adaptimmune Appoints Leading Immunotherapy Experts from United States and Europe to Inaugural Scientific Advisory Board

PHILADELPHIA, Pa. and OXFORD, UK, April 22, 2016 — Adaptimmune Therapeutics plc (Nasdaq: ADAP), a leader in the use of TCR engineered T-cell therapy to treat cancer, today announced the appointment of leading immunology, immunotherapy and oncology experts from across the United States and Europe to its newly formed scientific advisory board (SAB). Crystal Mackall, M.D., Professor of Pediatrics and Medicine and Associate Director of the Stanford Cancer Institute, will serve as Chair of the SAB.

The SAB will serve as a strategic resource for Adaptimmune and help to steer the company's development efforts in the field of immuno-oncology.

"Adaptimmune is the clear leader in the TCR T-cell therapy space, and I'm very pleased to join their scientific advisory board as Chair at this important time in their evolution," said Dr. Mackall.

"Our inaugural scientific advisory board members bring a wealth of experience in areas including gene therapy, immunotherapy and oncology, and we are honored to have such a prestigious group of advisors," said James Noble, Adaptimmune's Chief Executive Officer. "Their insights and guidance will be invaluable as we continue to move our pipeline of affinity optimized T-cell therapies forward."

The inaugural members of Adaptimmune's scientific advisory board are:

- Crystal Mackall, M.D., Chair, Adaptimmune Scientific Advisory Board; Professor of Pediatrics and Medicine; Associate Director of the Stanford Cancer Institute
 Nabil Ahmed, M.D., Associate Professor, Department of Pediatrics, Texas Children's Hospital, Texas Children's Cancer Center; Center for Cell and Gene Therapy, Houston Methodist Hospital, Baylor College of Medicine
- Michael Dustin, Ph.D., Professor of Immunology and Wellcome Principal Research Fellow, Director of Research of the Kennedy Institute
- Keith Flaherty, M.D., Professor, Medicine, Harvard Medical School; Director of Termeer Center for Target Therapy, Cancer Center, Massachusetts General Hospital
- Wolf Fridman, M.D., Ph.D., Professor Emeritus of Immunology, Paris Descartes University Medical School, Paris, France; President, Canceropole IIe de France
- Thomas Gajewski, M.D., Ph.D., Professor, Department of Pathology, The Ben May Department for Cancer Research, Department of Medicine Section of
- Hematology/Oncology, University of Chicago Medical Center Hematology/Oncology, University of Chicago Medical Center Starter M. P. P. Neutron Professor of District Living Science Science Science Concerns Science Sci
- Stephan Grupp, M.D., Ph.D., Novotny Professor of Pediatrics, University of Pennsylvania Perelman School of Medicine; Director, Cancer Immunotherapy Frontier Program; Director of Translational Research, Children's Hospital of Philadelphia
- Arlene Sharpe, M.D., Ph.D., Fabyan Professor of Comparative Pathology, Microbiology and Immunobiology, Harvard Medical School; Vice Chair for Education, Pathology, Harvard Medical School; Co-Director, Harvard Institute of Translation Immunology (HITI), Harvard Medical School
- Mario Sznol, M.D., Professor, Internal Medicine; Leader, Disease-Related Research Team, Melanoma and Renal cell Carcinoma; Vice-Chief, Medical Oncology; Co-Director, Yale Skin SPORE, Yale Cancer Center

About Adaptimmune

Adaptimmune is a clinical stage biopharmaceutical company focused on novel cancer immunotherapy products based on its T-cell receptor (TCR) platform. Established in 2008, the company aims to utilize the body's own machinery - the T-cell - to target and destroy cancer cells by using engineered, increased affinity TCRs as a means of strengthening natural patient T-cell responses. Adaptimmune's lead program is an affinity enhanced T-cell therapy targeting the NY-ESO cancer antigen. Its NY-ESO TCR affinity enhanced T-cell therapy has demonstrated signs of efficacy and tolerability in Phase I/II trials in solid tumors and in hematologic cancer types, including synovial sarcoma and multiple myeloma. Adaptimmune has a strategic collaboration and licensing agreement with GlaxoSmithKline for the development and commercialization of the NY-ESO TCR program. In addition, Adaptimmune has a number of proprietary programs. The company has identified over 30 intracellular target peptides preferentially expressed in cancer cells and is located in Oxfordshire, U.K. and Philadelphia, USA. For more information: http://www.adaptimmune.com

Forward-Looking Statements

This release contains "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995 (PSLRA). These forward-looking statements involve certain risks and uncertainties. Such risks and uncertainties could cause our actual results to differ materially from those indicated by such forward-looking statements, and include, without limitation: the success, cost and timing of our product development activities and clinical trials and our ability to successfully advance our TCR therapeutic candidates through the regulatory and commercialization processes. For a further description of the risks and uncertainties that could cause our actual results to differ materially from those expressed in these forward-looking statements, as well as risks relating to our business in general, we refer you to our Annual Report on Form 20-F filed with the Securities and Exchange Commission (SEC) on October 13, 2015 and our other SEC filings. The forward-looking statements to reflect subsequent events or circumstances.

Adaptimmune Contacts

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Adaptimmune Announces SPEAR T-cells™ Brand for Proprietary Technology

PHILADELPHIA, Pa. and OXFORD, UK, April 22, 2016 — Adaptimmune Therapeutics plc (NASDAQ: ADAP), a leader in the use of TCR engineered T-cell therapy to treat cancer, today announced that the company has adopted the name SPEAR T-cellsTM (Specific Peptide Enhanced Affinity Receptor T-cells) to describe its proprietary technology.

The SPEAR T-cells brand is intended to symbolize the vital role that Adaptimmune's enhanced affinity T-cell receptors play in targeting cancer.

Adaptimmune has a history of scientific leadership in the field of T-cell engineering and the company's proprietary T-cell engineering platform, developed over the last 15 years, has generated a strong pipeline of T-cell therapies.

"Affinity optimized T-cell receptors are essential to the fight against cancer," said James Noble, Adaptimmune's Chief Executive Officer. "Our SPEAR T-cell technology is unique in delivering correctly identified targets and enhanced affinity TCRs that have the potency needed to attack tumors, but also the optimum specificity to minimize risks of cross-reactivity. Our proprietary technology provides us with 'supra-natural' TCRs that enable the acceleration of our programs and also facilitates our development of second generation TCRs."

About Adaptimmune

Adaptimmune is a clinical stage biopharmaceutical company focused on novel cancer immunotherapy products based on its T-cell receptor (TCR) platform. Established in 2008, the company aims to utilize the body's own machinery - the T-cell - to target and destroy cancer cells by using engineered, increased affinity TCRs as a means of strengthening natural patient T-cell responses. Adaptimmune's lead program is an affinity enhanced T-cell therapy targeting the NY-ESO cancer antigen. Its NY-ESO TCR affinity enhanced T-cell therapy has demonstrated signs of efficacy and tolerability in Phase I/II trials in solid tumors and in hematologic cancer types, including synovial sarcoma and multiple myeloma. Adaptimmune has a strategic collaboration and licensing agreement with GlaxoSmithKline for the development and commercialization of the NY-ESO TCR program. In addition, Adaptimmune has a number of proprietary programs. The company has identified over 30 intracellular target peptides preferentially expressed in cancer cells and is currently progressing 12 through unpartnered research programs. Adaptimmune has over 200 employees and is located in Oxfordshire, U.K. and Philadelphia, USA. For more information: http://www.adaptimmune.com

Forward-Looking Statements

This release contains "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995 (PSLRA). These forward-looking statements involve certain risks and uncertainties. Such risks and uncertainties could cause our actual results to differ materially from those indicated by such forward-looking statements, and include, without limitation: the success, cost and timing of our product development activities and clinical trials and our ability to successfully advance our TCR therapeutic candidates through the regulatory and commercialization processes. For a further description of the risks and uncertainties

that could cause our actual results to differ materially from those expressed in these forward-looking statements, as well as risks relating to our business in general, we refer you to our Annual Report on Form 20-F filed with the Securities and Exchange Commission (SEC) on October 13, 2015 and our other SEC filings. The forward-looking statements contained in this press release speak only as of the date the statements were made and we do not undertake any obligation to update such forward-looking statements to reflect subsequent events or circumstances.

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