

Better Cells For Better Therapies™

Programmed Cellular Immunotherapies

iPSC-derived, Off-the-Shelf Cancer Immunotherapies

November 30, 2018

Forward-Looking Statements



This presentation contains "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995, including statements regarding the Company's advancement of and plans related to the Company's product candidates and clinical studies, the therapeutic potential of the Company's iPSC-derived cell products, including FT500, FT516, FT596 and FT819, the Company's regulatory strategy and advancement of its clinical studies, and the Company's plans for its intended clinical investigation of its iPSC-derived cell products, including FT500. These and any other forward-looking statements in this presentation are based on management's current expectations of future events and are subject to a number of risks and uncertainties that could cause actual results to differ materially and adversely from those set forth in or implied by such forward-looking statements. These risks and uncertainties include, but are not limited to, the risk of cessation or delay of ongoing or planned development and clinical activities for a variety of reasons (including requirements that may be imposed by regulatory authorities on the initiation or conduct of clinical trials or to support regulatory approval, or on the manufacture of its product candidates, any adverse events or other results that may be observed during development, or difficulties in manufacturing or supplying the Company's product candidates for clinical trials), the risk that results observed in preclinical studies of its iPSC-derived cell products, including FT500, may not be replicated in ongoing studies or future clinical trials, and the risk that its iPSC-derived cell products, including FT500, may not produce therapeutic benefits or may cause other unanticipated adverse effects. These statements are also subject to other risks and uncertainties as further detailed in the Company's most recently filed periodic report, and subsequent periodic reports filed by the Company, under the Securities Exchange Act of 1934, as amended, any of which could cause actual results to differ materially from those contained in or implied by the forward-looking statements in this presentation. The Company is providing the information in this presentation as of the date hereof and does not undertake any obligation to update any forward-looking statements contained in this presentation unless required by applicable law.



- Welcome Scott Wolchko, President & CEO
- iPSC Platform & Pipeline Overview Bob Valamehr, PhD, CDO
- FT500 + CPB: Bridging Innate and Adaptive Immunity Jeff Miller, MD
- Enhancing CD16 and CAR Biology for NK cells Dan Kaufman, MD PhD
- iPSC-derived Cell Product Pipeline Bob Valamehr, PhD, CDO
- Creating an Off-the-Shelf CART Platform *Michel Sadelain, MD PhD*
- Concluding Remarks Scott Wolchko, President & CEO





Fate Therapeutics Announces FDA Clearance of Landmark IND for FT500 iPSCderived, Off-the-Shelf NK Cell Cancer Immunotherapy

Company to Initiate First-ever U.S. Clinical Investigation of iPSC-derived Cell Product

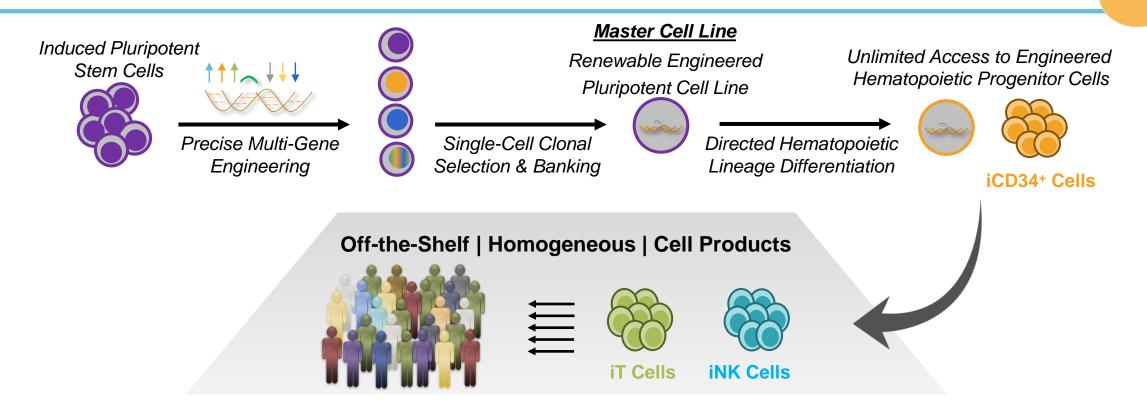
FT500 to be Featured in Oral Presentation on Monday, December 3 at ASH Annual Meeting

San Diego, CA – November 30, 2018 – Fate Therapeutics, Inc. (NASDAQ: FATE), a clinical-stage biopharmaceutical company dedicated to the development of programmed cellular immunotherapies for cancer and immune disorders, announced today that the U.S. Food and Drug Administration (FDA) has allowed its Investigational New Drug (IND) Application for FT500, the Company's universal, off-the-shelf natural killer (NK) cell product candidate derived from a clonal master induced pluripotent stem cell (iPSC) line. The clinical trial of FT500 is expected to be the first-ever clinical investigation in the U.S. of an iPSC-derived cell product.

iPSC Platform & Pipeline Overview Bob Valamehr, PhD, Chief Development Officer

iPSC Product Platform for Off-the-Shelf Cell Products

iPSC-derived Cell-based Cancer Immunotherapies



Does not require patient-sourced cellsEliminates stochastic editing variability associated with pool engineeringConsistent, reliable and cost-effective product formsUnprecedented scalabilityOff-the-shelf production of cells



Addresses Critical Limitations of Patient-Sourced Cellular Therapies

Genetic Engineering / Editing

Challenges using Patient- and Donor-derived Cells



Not All Cells Are Engineered					
Gene Edit Technology	CRISPR/Cas9	ZFN	TALEN		
Gene Edit Tool Delivery	RNP	mRNA	mRNA		
CAR Transduction	AAV6	AAV6	Unknow		
TRAC-	97%/~98%	93%	97%		
β2M-	76%/83%	96%	91%		
CAR+ in TRAC	61%/64%	77%**	69%**		
PD1-	97%				
CISH-		93%			
TRAC-/ B2M-	74%*/>80%	91%	89%		
TRAC- / B2M- / CAR+ in TRAC	47%*/~50%	70%*	61%*		
TRAC-/ B2M-/ CAR+ in TRAC / PD1-	46% / 48%*				
RAC-/ B2M-/ CAR+ in TRAC / CISH-		65%*			
AC-/β2M-/CAR+ in TRAC/NKi in β2M			42%*		

Not All Calle Are Engineered

Source: Guggenheim Securities

Not All Engineered Cells Are Pristine

- Random integration of transgenes
- Double stranded breaks in DNA
- Genetic translocations
- Off-target editing

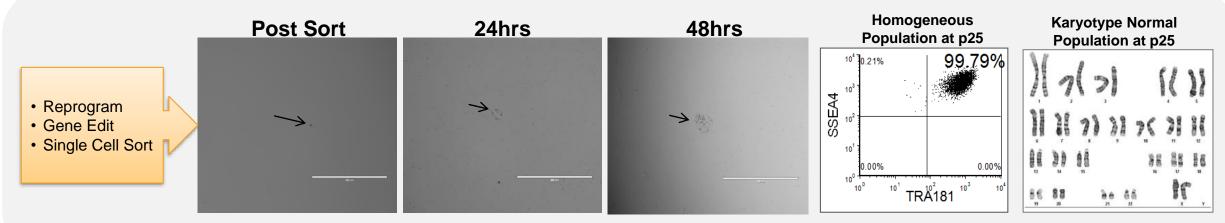
Disruption of normal cellular machinery ---> potential for abnormal expression patterns and oncogenesis

The need for a true off-the-shelf cellular platform to compliment advancing engineering technologies and reduce the inherent variability & risk associated with cellular manufacturing

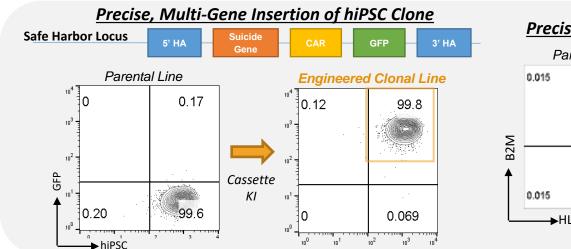


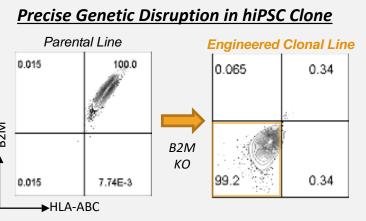
Foundation of iPSC Product Platform

Derivation & Selection of Renewable Master iPSC Clone with Preferred Properties



Valamehr et al 2012, 2013, 2014

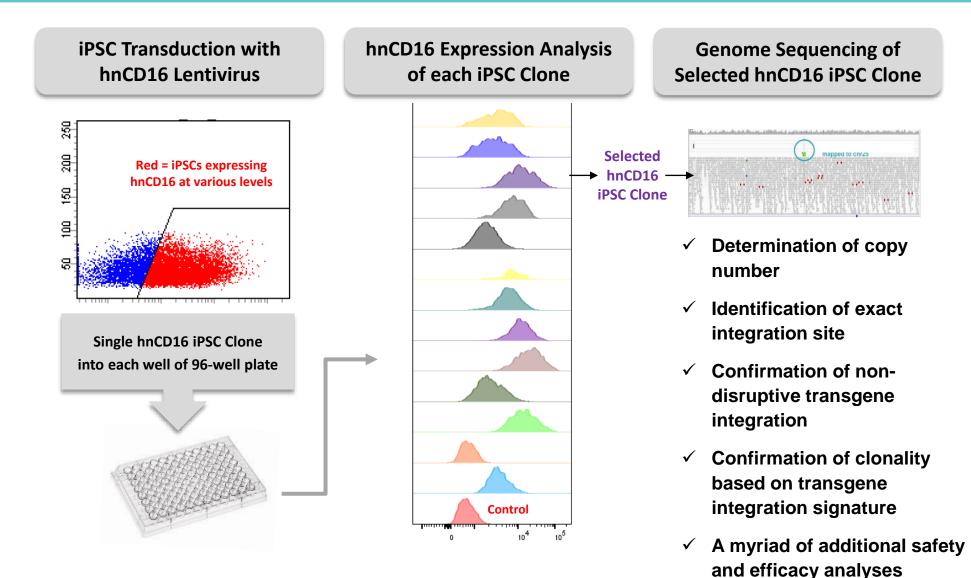






Selection of Renewable Master iPSC Clone (FT516)

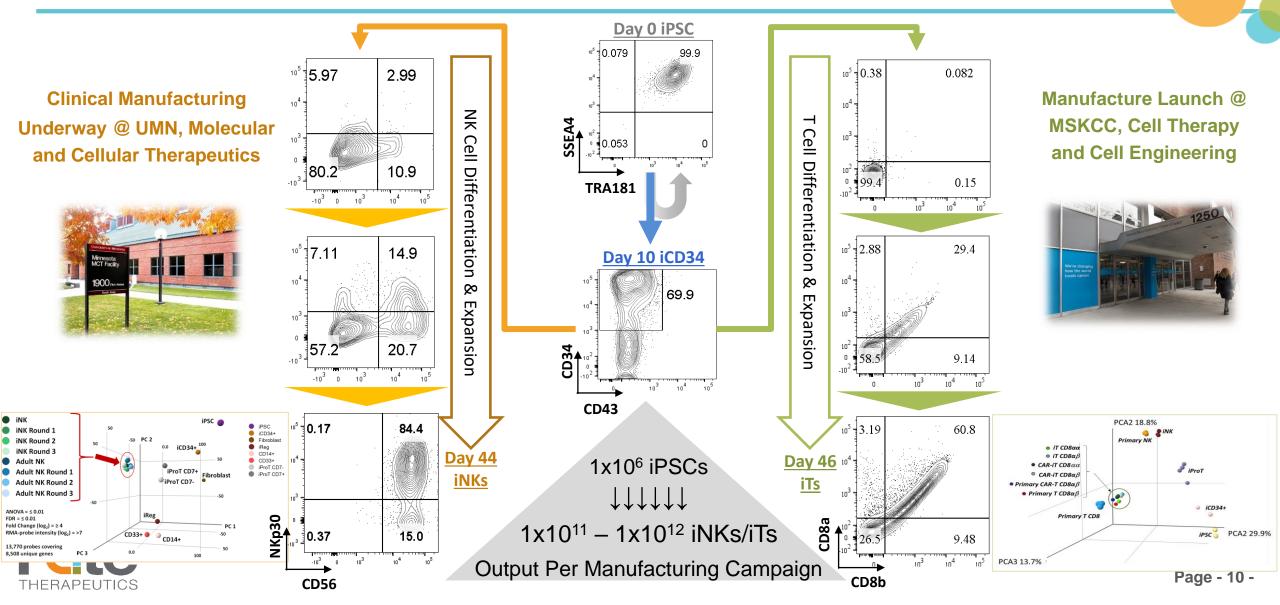
Unprecedented Ability for Single-cell Isolation, Characterization, Comparison and Selection





Production of Homogeneous Cell Products

Consistent, Scalable and Cost-effective Manufacture from Renewable Master iPSC Clone



iPSC-derived, Off-the-Shelf Cancer Immunotherapy Pipeline

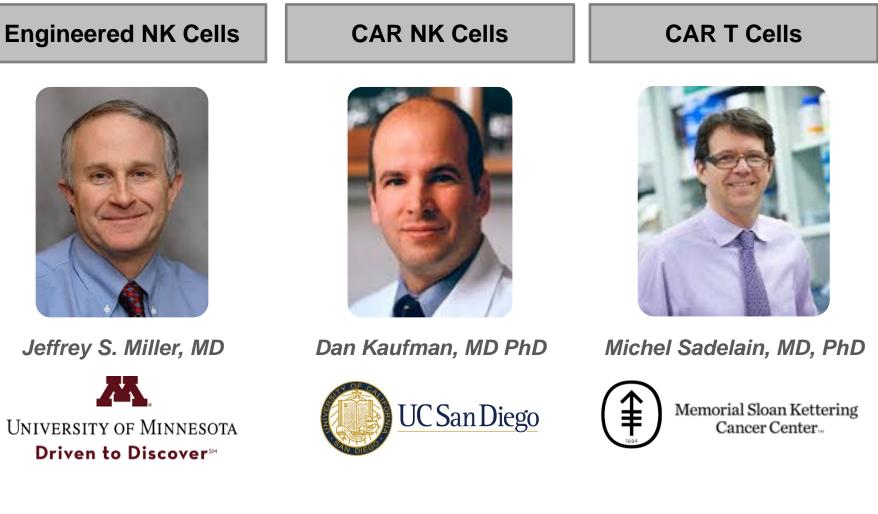
	Description	R&D	Preclinical Dev	Process Dev	Manufacturing	IND Filing	Phase 1
Off-the-Shelf	NK Cells (FT5xx)						
FT500	Allogeneic iNK + Check Point Inhibitors						
FT516	hnCD16 iNK (ADCC) + monoclonal antibodies						
FT596	CAR19 + hnCD16 + mblL15 CD19 CAR-NK USE CIP						
FT538	CD38 KO + hnCD16 + mbIL15 + Daratumumab						
FT576	CAR-BCMA + hnCD16 + CD38 KO +/- Daratumumab						
FT5solid	CARsolid + USE + CIP + multifaceted engineered attributes						
Off-the-Shelf	T Cells (FT8xx)						
FT819	TCRIess TRAC-Targeted CAR19						
FT896	TCRIess TRAC-Targeted CAR19 + USE						
FT817	TCRIess TRAC-Targeted CAR-BCMA						
FT8solid	TCRIess + TRAC-CARsolid + USE + multifaceted engineered attributes						
ERAPEUTICS	UNIVERSITY OF MINNESOTA Driven to Discover≅	G Oslo Univers	sity Hospital	UC Sat	n Diego	Memorial Sloan-F Cancer Center The Best Cancer Care. Anywi	Page

iPSC-derived, Off-the-Shelf Cell Products

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THERAPEUTICS

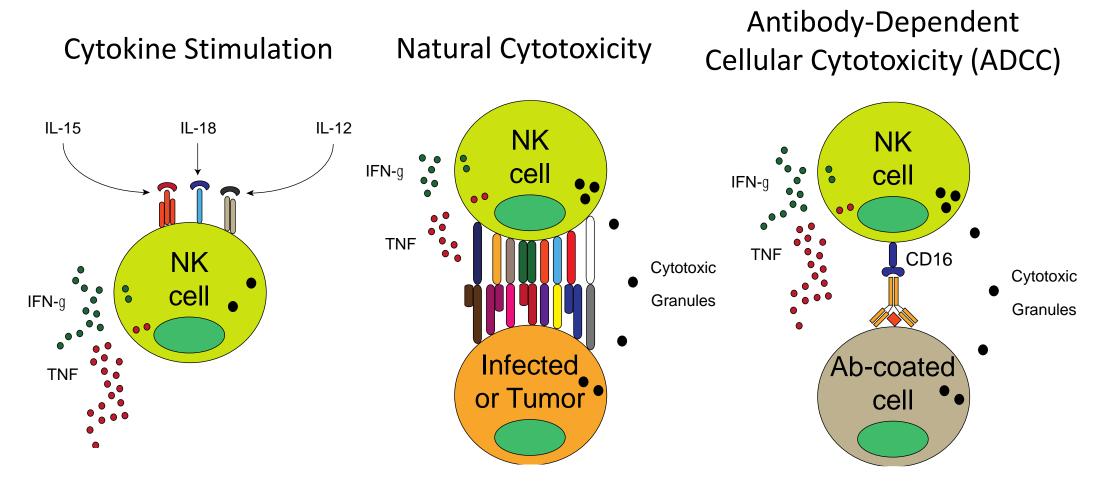
Collaborations with Top Investigators and Leading Centers



FT500 + CPB: Bridging Innate and Adaptive Immunity Jeffrey S. Miller, MD

NK Cell Biology

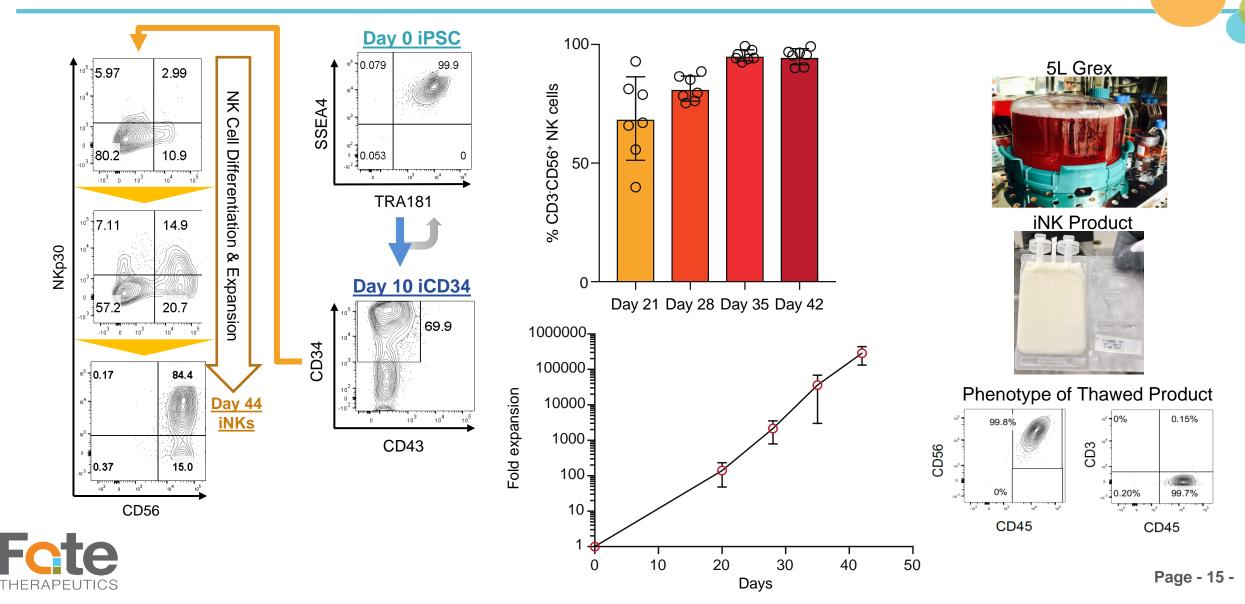
Multifaceted Mechanisms of Anti-Tumor Activity





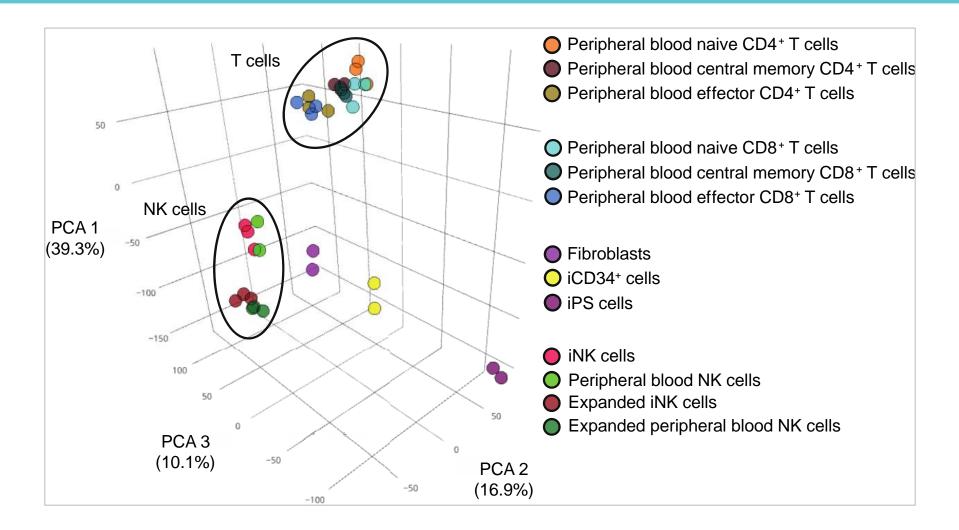
iPSC-derived, Off-the-Shelf NK Cells

Differentiation and Expansion from Clonal Master iPSC Line



iNK Cell Characterization

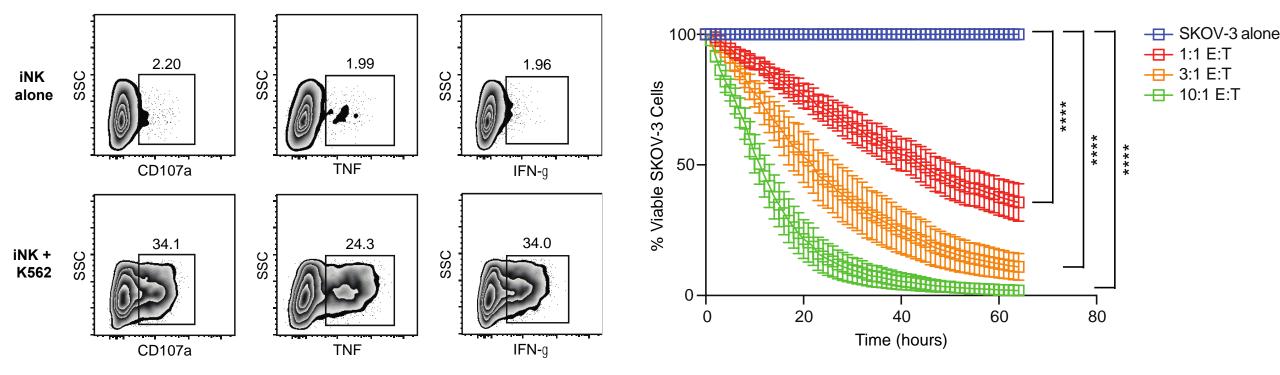
Transcriptome Similar to Primary Peripheral Blood NK cells





iNK Cell Cytotoxicity

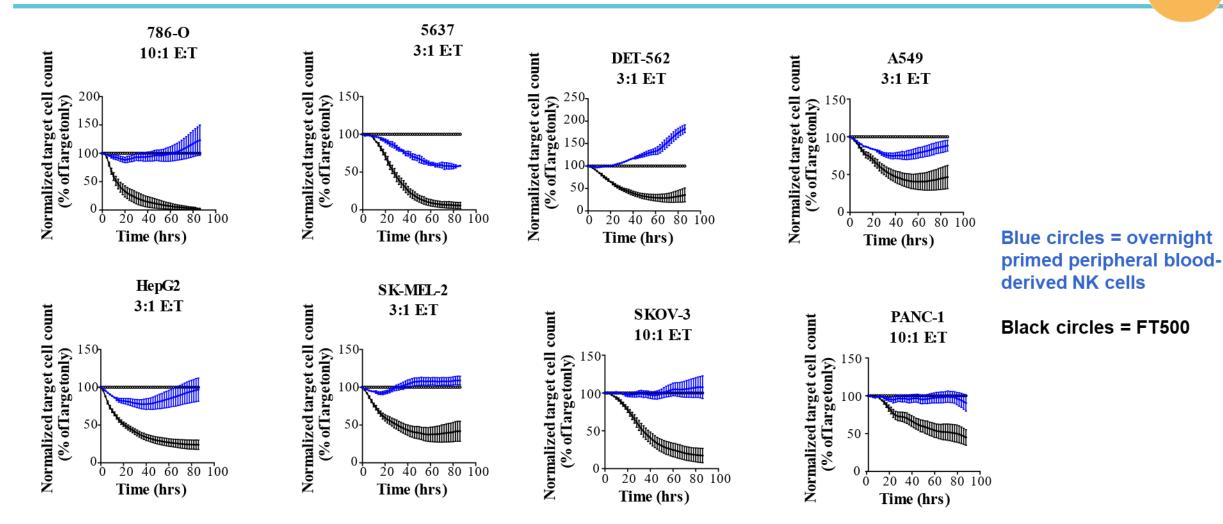
Robust Cytotoxic Function and Inflammatory Cytokine Production





iNK Cell Cytotoxicity

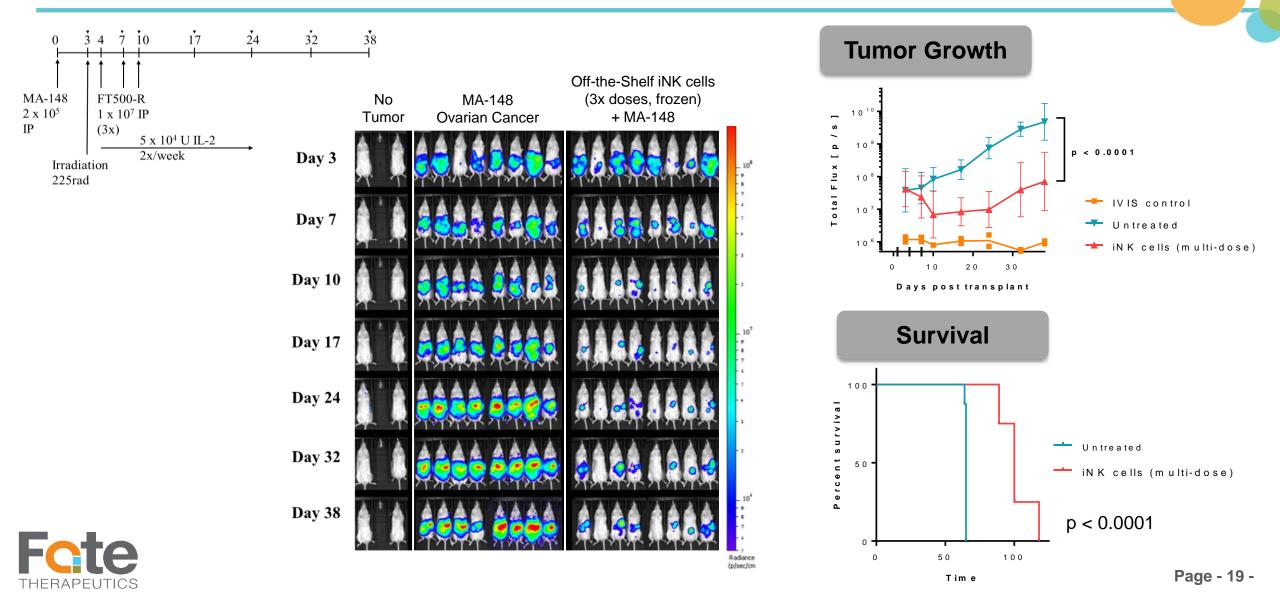
Demonstration of Enhanced Cytotoxicity Against Various Solid Tumors





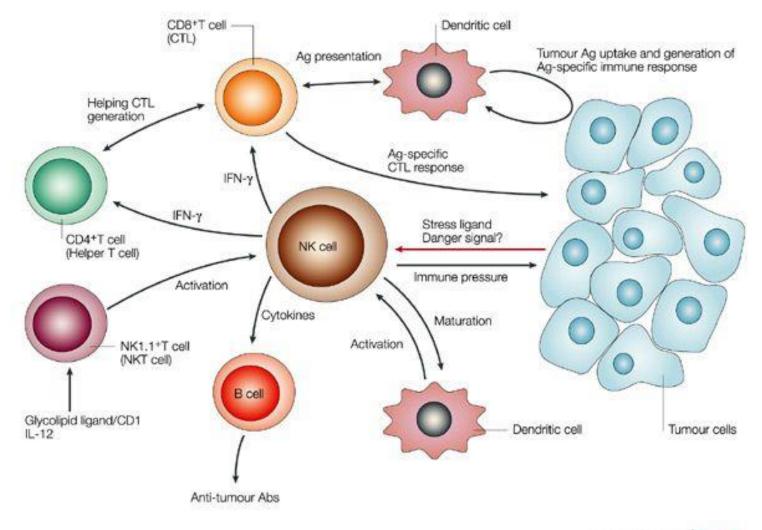
iNK Cell Cytotoxicity

In Vivo Anti-Tumor Function Using Multi-Dose Administration



Unique Therapeutic Potential of NK Cells

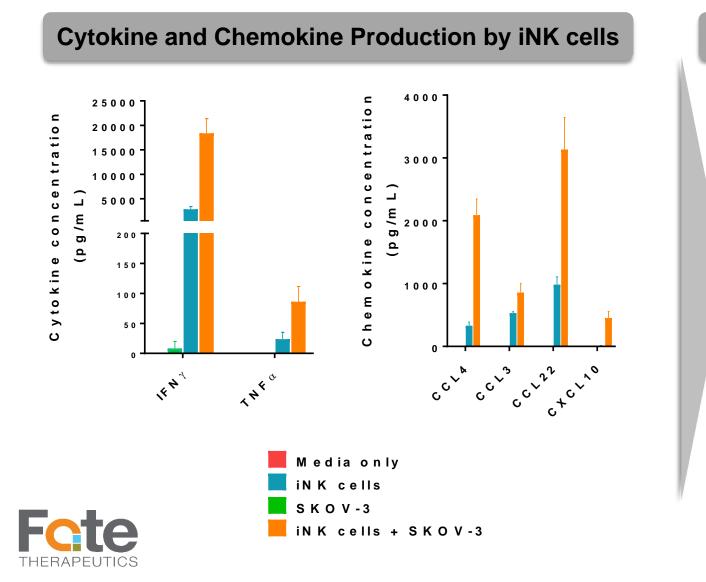
Bridge Innate and Adaptive Immunity



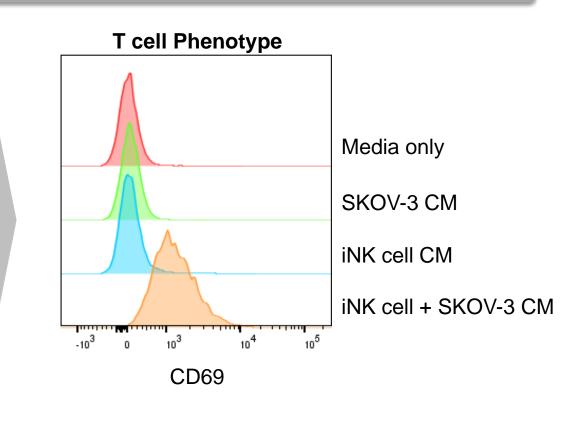


iNK Cells Induce Adaptive Immunity

Soluble Factors from iNK Cells Activate Cytotoxic T Cells

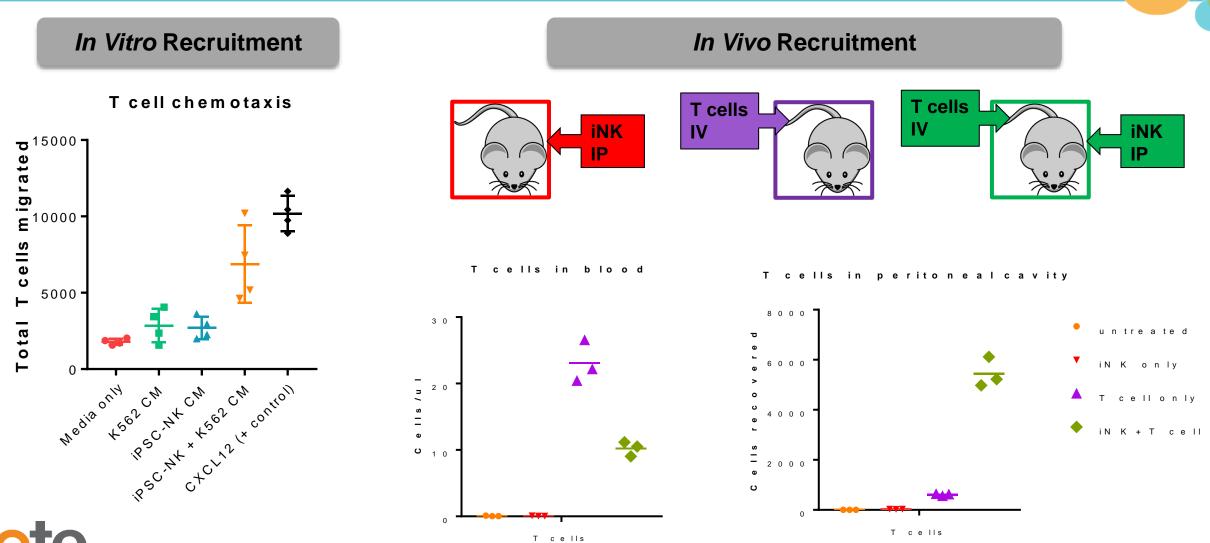


Conditioned Media-mediated T cell Activation



iNK Cells Induce Adaptive Immunity

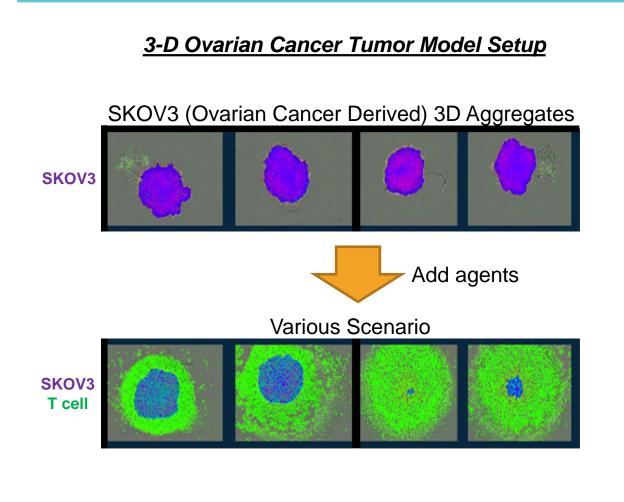
iNK Cells Promote T Cell Recruitment



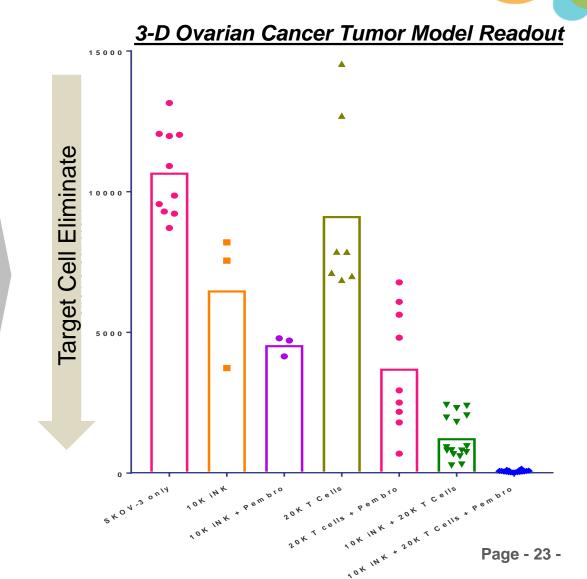


iNK Cells + T Cells + CPI Therapeutic Agent

Synergy Uniquely Drives Complete Killing of Tumor Spheroids







FT500: iNK Cell Combination with Checkpoint Blockade

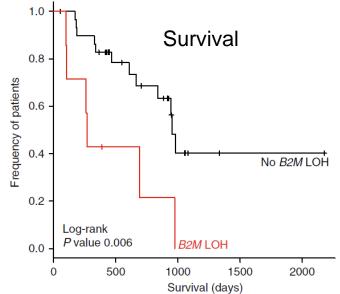
Rescue Therapy in Patients with B2M Mutations



Resistance to checkpoint blockade therapy through inactivation of antigen presentation

Moshe Sade-Feldman^{1,2}, Yunxin J. Jiao^{2,3}, Jonathan H. Chen^{2,4}, Michael S. Rooney², Michal Barzily-Rokni¹, Jean-Pierre Eliane⁴, Stacey L. Bjorgaard^{1,2}, Marc R. Hammond¹, Hans Vitzthum¹, Shauna M. Blackmon¹, Dennie T. Frederick¹, Mehlika Hazar-Rethinam¹, Brandon A. Nadres ¹, Emily E. Van Seventer¹, Sachet A. Shukla^{2,5}, Keren Yizhak², John P. Ray², Daniel Rosebrock², Dimitri Livitz¹, Viktor Adalsteinsson², Gad Getz ^{2,4}, Lyn M. Duncan⁴, Bo Li⁶, Ryan B. Corcoran¹, Donald P. Lawrence¹, Anat Stemmer-Rachamimov⁴, Genevieve M. Boland⁷, Dan A. Landau^{2,8,9}, Keith T. Flaherty¹, Ryan J. Sullivan¹ & Nir Hacohen^{1,2}

- *B2M* mutations are enriched in patients who are resistant to checkpoint therapy (~30%)
- Loss of *B2M* associated with poor survival
- MHC Class 1 null tumor cells are highly susceptible to killing by NK cells



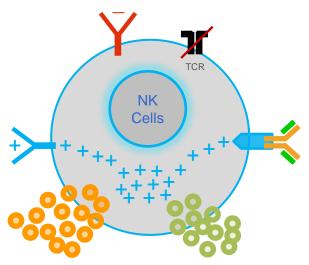




FT500: iNK Cell Combination with Checkpoint Blockade

Landmark IND Cleared by FDA for Clinical Investigation of First iPSC-derived Cell Therapy

Multifaceted Function of NK cells

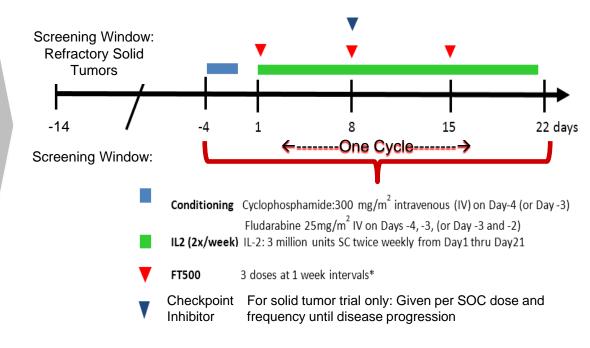


Secretion of pro-inflammatory cytokines and chemokines to recruit and activate the adaptive immune system

We have demonstrated that iNKs can:

- ✓ Activate primary T cells
- Support primary T cell infiltration and killing of 3-D tumor aggregates
- Support in vivo homing and trafficking of primary T cells
- Support synergistic killing of target cells when combined with primary T cells and PD1 checkpoint inhibitor

FT500 Clinical Trial Schema: Multiple Cycles of FT500 + Checkpoint Inhibitor Dosed Weekly after Outpatient Lympho-Conditioning Regimen





Enhancing CD16 and CAR Biology for NK cells

Dan S. Kaufman, MD PhD

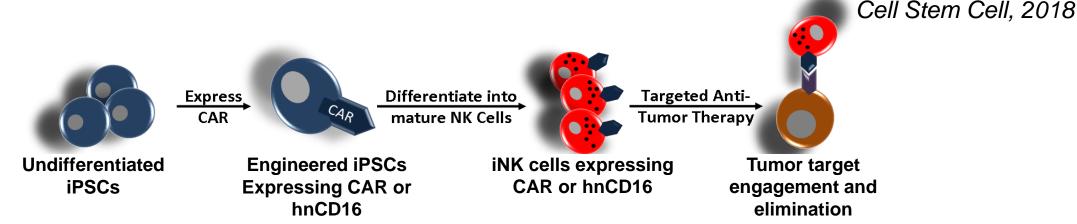


iPSC-derived NK Cell Tumor Targeting

Hematopoietic colony-forming cells derived from human embryonic stem cells

Dan S. Kaufman*, Eric T. Hanson[†], Rachel L. Lewis[†], Robert Auerbach[‡], and James A. Thomson^{†§¶}

PNAS, 2001



- Advantages working with iPSCs as opposed to primary-derived cells from each patient
 - Homogeneous starting cell population
 - Can obtain ~100% CAR-expressing cells
 - Potentially more potent effector cells with multiple engineering steps
 - Defined donor genetic makeup
- Fcte
- Can target insertion
- Potential for in depth preclinical testing

Human iPSC-Derived Natural Killer Cells

Enhance Anti-tumor Activity

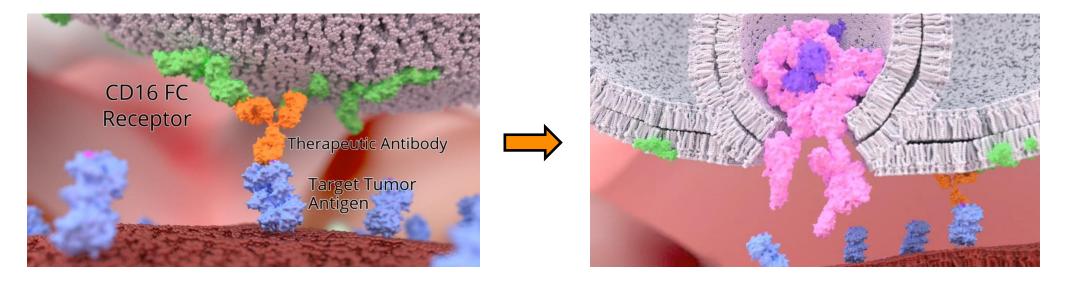
Ye Li,¹ David L. Hermanson,^{2,4} Branden S. Moriarity,³ and Dan S. Kaufman^{1,5,*}

Engineered with Chimeric Antigen Receptors

Antibody Dependent Cellular Cytotoxicity (ADCC)

Mediated by NK Cells

 Antibody binds to tumor target via Fab and to Fc receptor on NK cells (CD16) via Fc, initiating release of perforins / granzyme resulting in tumor cell death



- ADCC contributes to anti-tumor activity of many FDA-approved antibodies
 - Herceptin, Erbitux, Rituximab, Darzalex, etc.



ADCC: Clinical Proof-of-Concept

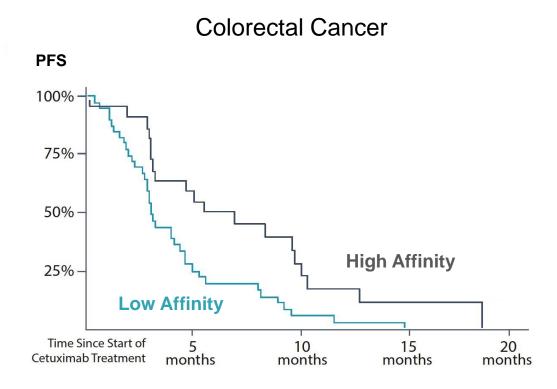
Herceptin

Enhanced ADCC Mediated by High Affinity CD16 Polymorphism Correlates with Improved Outcomes

Metastatic Breast Cancer PFS Free 100% 90% NK Cells w/ High Affinity CD16 80% ~10-15% of Population 70% 60% 50% 40% 30% **NK Cells** 20% F/F 10% **F** Carriers 60 12 24 72 36 Time (Months)

Musolino et al, J. Clin Oncol, 26, 1789, 2008

Erbitux



Bibeau et al, J. Clin Oncol, 27, 1122, 2009



FT516: Engineered hnCD16 iNK Cell Product Candidate

Off-the-Shelf Cornerstone Approach for Multi-Targeting of Liquid & Solid Tumors

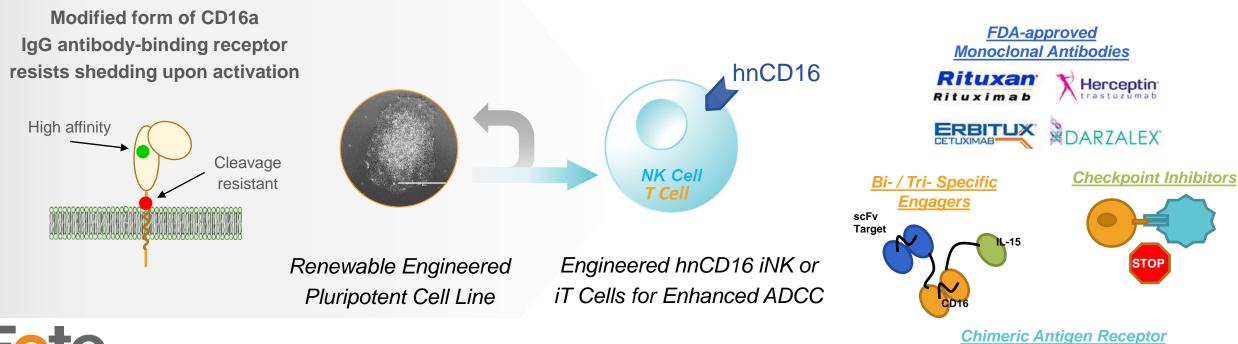


RESEARCH ARTICLE

Identification of an ADAM17 Cleavage Region in Human CD16 (FcyRIII) and the Engineering of a Non-Cleavable Version of the Receptor in NK Cells

Yawu Jing¹, Zhenya Ni², Jianming Wu¹, LeeAnn Higgins³, Todd W. Markowski³, Dan S. Kaufman², Bruce Walcheck¹*

Engineered high-Affinity non-Cleavable CD16 Fc Receptor



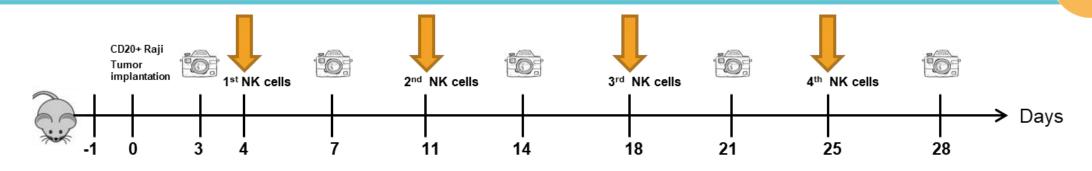


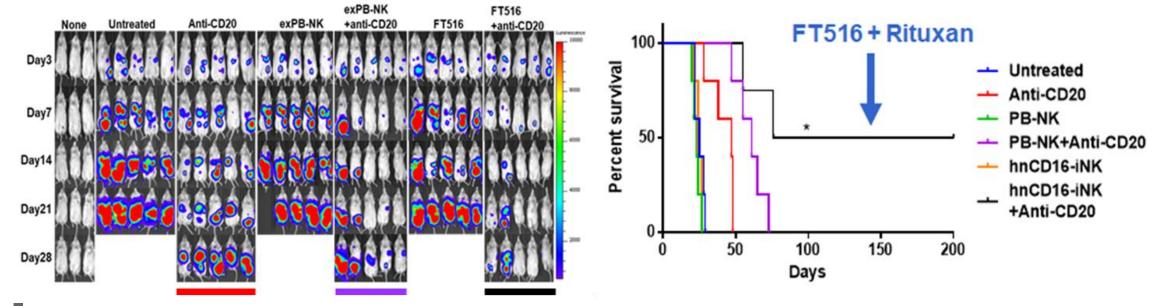


Page - 30 -

FT516: Combination with Rituxan

Promotes Enhanced In Vivo Survival







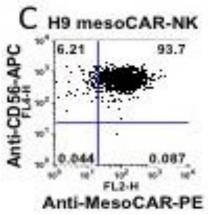


Chimeric Antigen Receptors (CARs) Designed for iNK Cells

• Initial studies used T-CAR construction in hESC/iPSC-NK cells



- Obtained good expression
 - >90% CAR-NK cells
 - Normal NK cell phenotype
 - Good function in vitro
 - T-CAR in NK cells had poor function in vivo
- Develop novel CARs specifically designed for NK cells





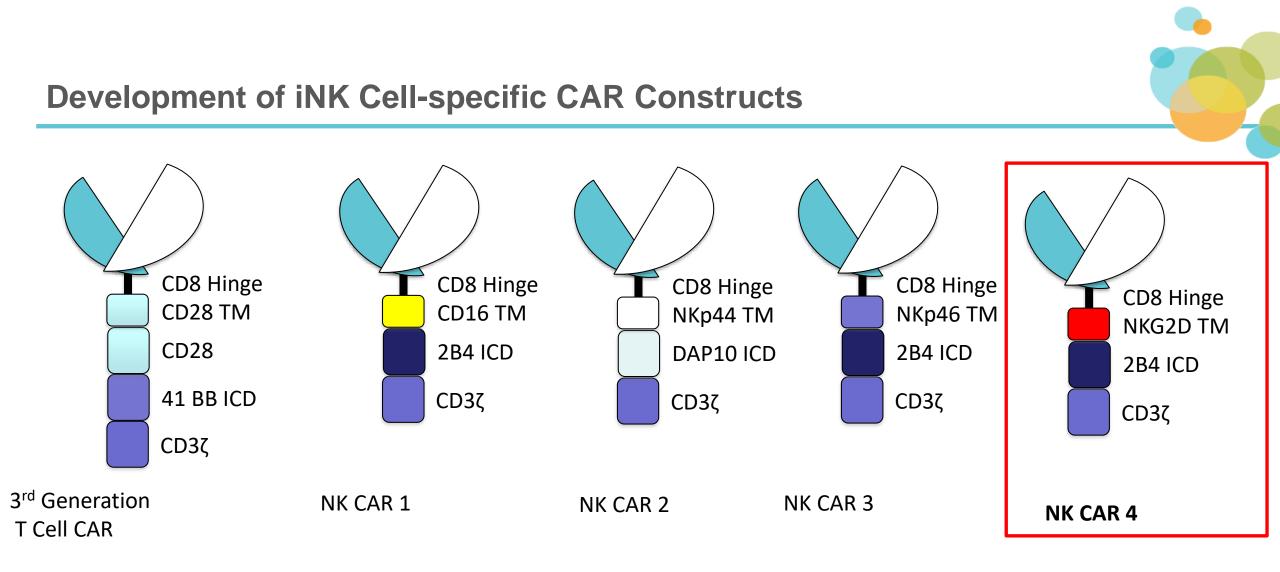
NK Cell-specific CAR Constructs



CARs	Target	Construct (TM-CD/s-SD)
3rd Gen T-CAR	hMesothelin	scFv-CD28-CD137-CD3ζ
NK-CAR1v3	hMesothelin	scFv-CD16-2B4-CD3ζ
NK-CAR2v2	hMesothelin	scFv-NKp44-DAP10-CD3ζ
NK-CAR3v2	hMesothelin	scFv-NKp46-2B4-CD3ζ
NK-CAR4v2	hMesothelin	scFv-NKG2D-2B4-CD3ζ
NK-CAR5	hMesothelin	scFv-NKG2D-CD137-CD3ζ
NK-CAR6	hMesothelin	scFv-NKG2D-2B4-DAP12-CD3ζ
NK-CAR7v2	hMesothelin	scFv-NKG2D-2B4-DAP10-CD3ζ
NK-CAR9	hMesothelin	scFv-NKG2D-CD137-2B4-CD3ζ
NK-CAR10	hMesothelin	scFv-NKG2D-CD3ζ

All have CD8 hinge and CD3 ζ signaling domain





- Developed a total of 12 unique NK cell-specific CARs
- Screened for best activity using NK cells vs mesothelin-expressing tumors

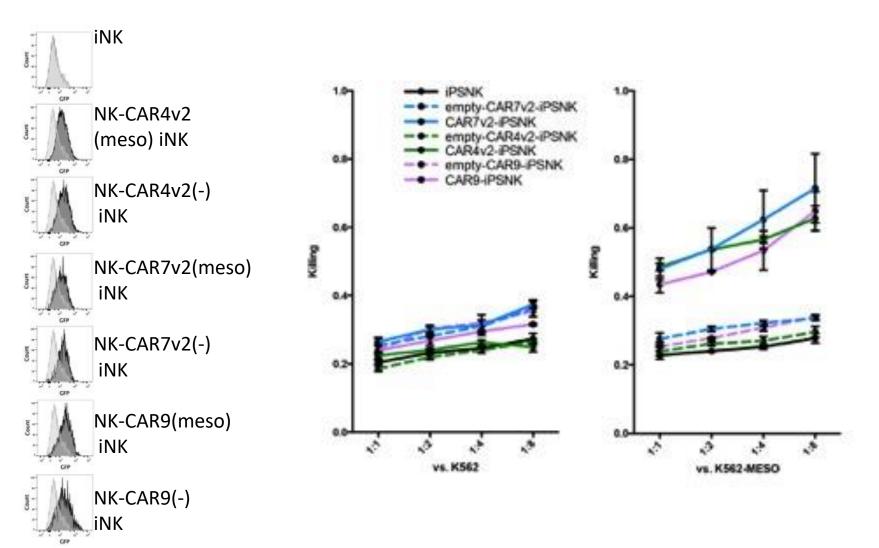


Development of iNK Cell-specific CAR Constructs

CAR4 Selection for Optimal NK Cell Function

Fcte

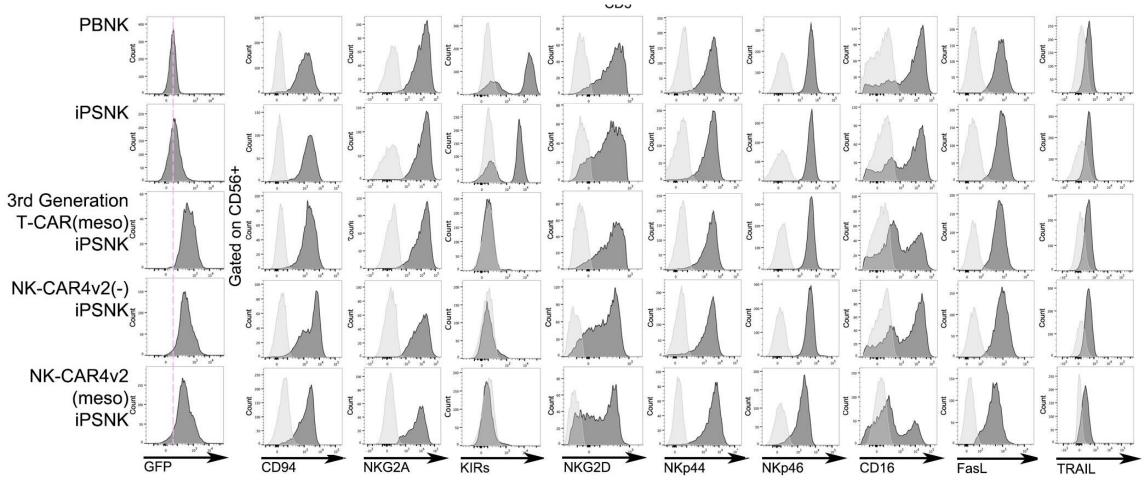
THERAPEUTICS



Page - 35 -

Li, et al. Cell Stem Cell, 2018

Phenotype of CAR4-expressing iNK Cells



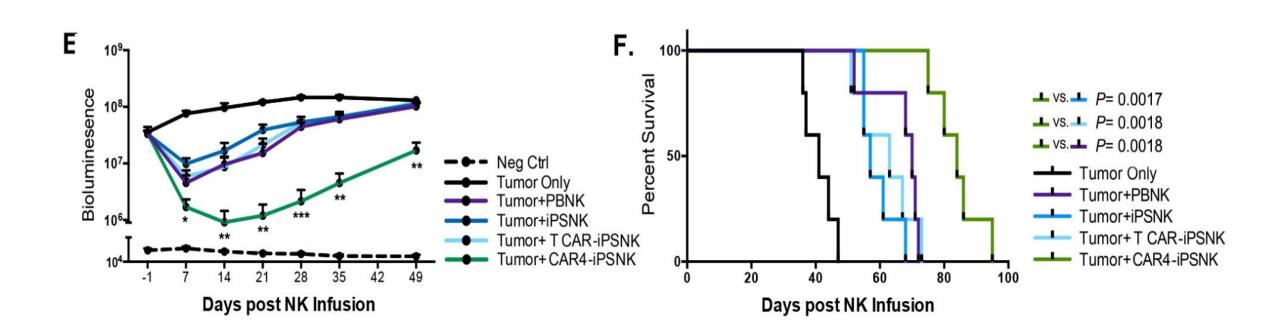


Li, et al. Cell Stem Cell, 2018

Page - 36 -

CAR4 iNK Cell Function

Improved Survival in Ovarian Cancer Model

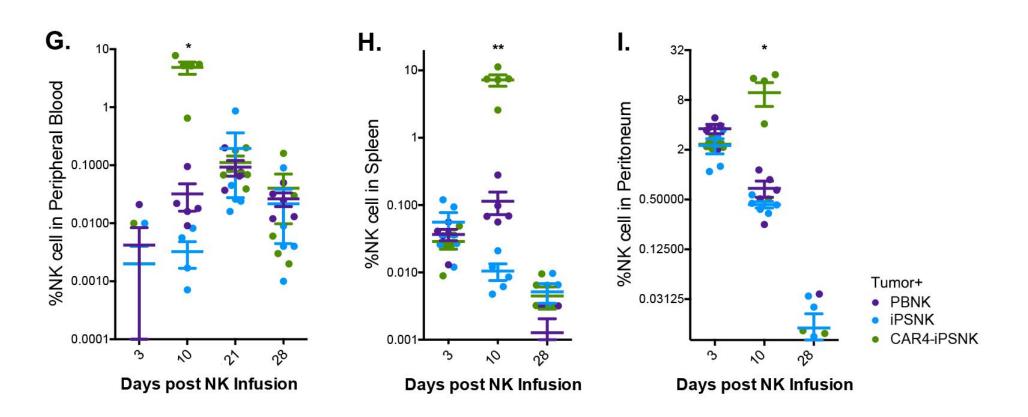




Li, et al. Cell Stem Cell, 2018

CAR4 iNK Cell Function

In Vivo Expansion upon Target Engagement



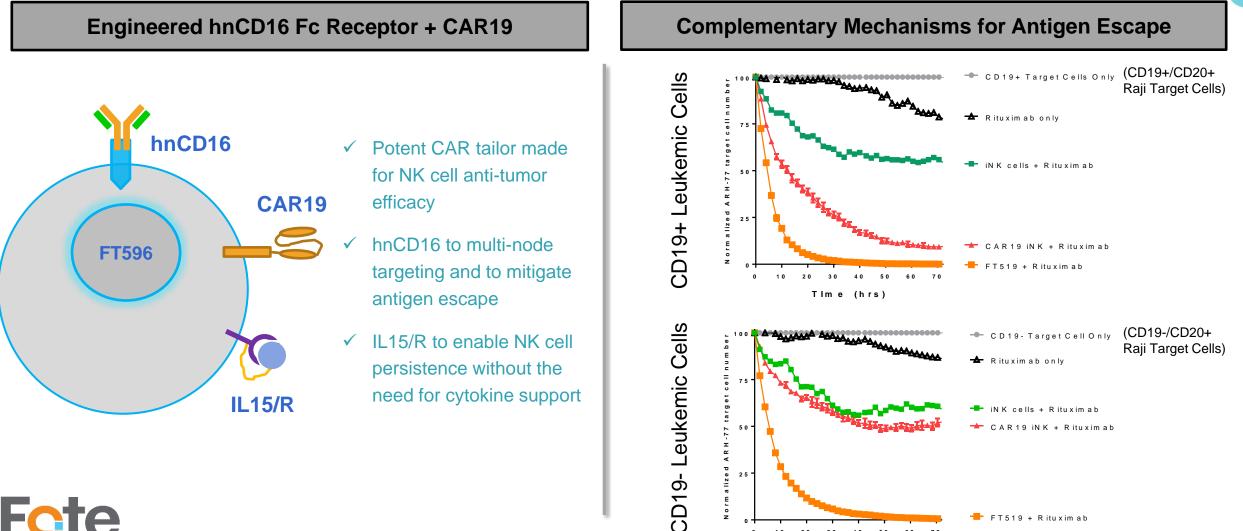


Li, et al. Cell Stem Cell, 2018



FT596: Universal, Off-the-Shelf hnCD16 + CAR19 NK Cell Product

Dual-Targeting for Antigen Escape



10 2.0 3.0

Time (hrs)

60 70

Page - 39 -

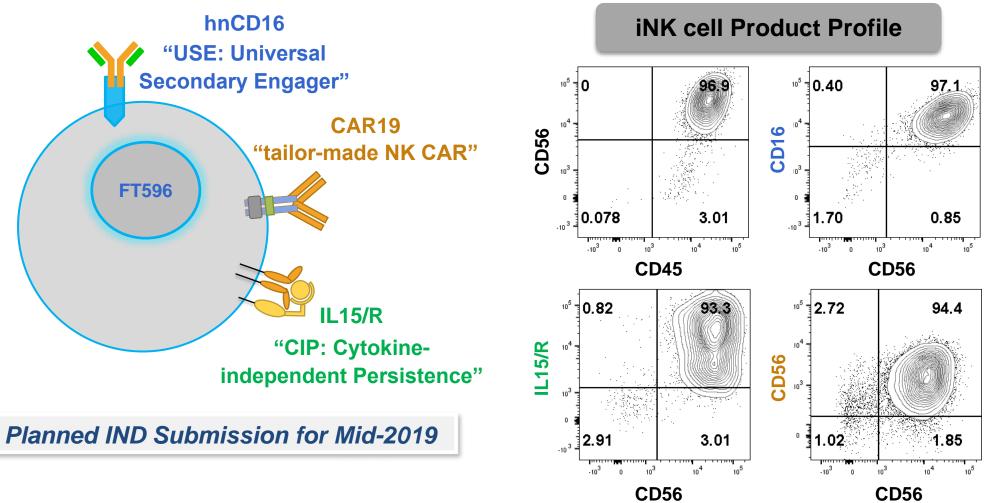
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iPSC-derived Cell Product Pipeline Bob Valamehr, PhD, Chief Development Officer

FT596: Universal, Off-the-Shelf hnCD16 + CAR19 NK Cell Product

Multi-modality Engineered Master iPSC Line Cell – CAR | CIP | USE





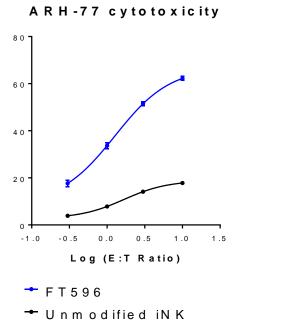
FT596 Cytotoxicity

Improve Cytotoxicity Towards

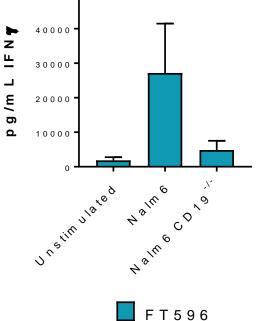
CD19+ Target Cells

Enhanced Potency and Specificity

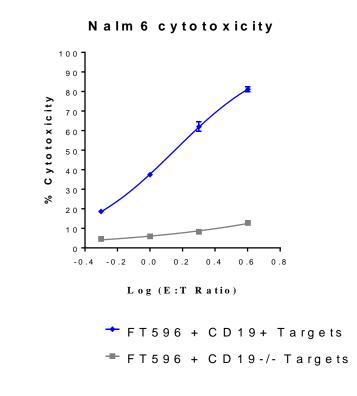
Enhanced and Specific Cytokine Production



Soluble cytokine



Target Specific Cytotoxicity





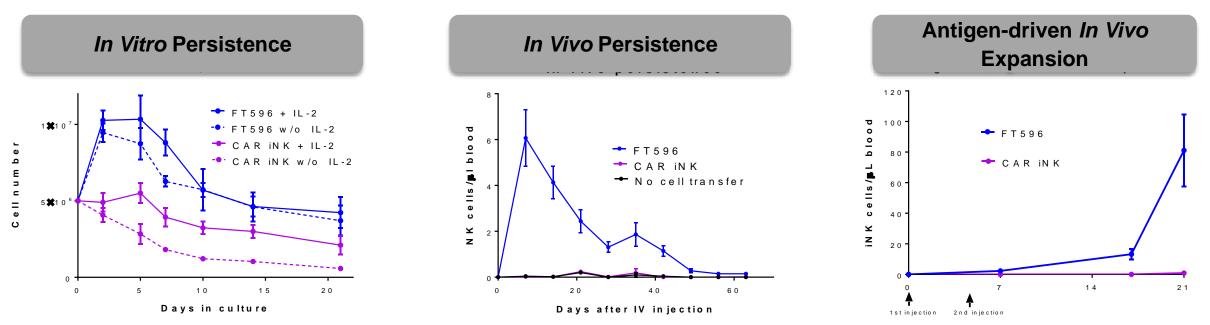
pecific Cytotoxicity

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%

FT596 Persistence

Cytokine-free Persistence and Enhanced In Vivo Expansion

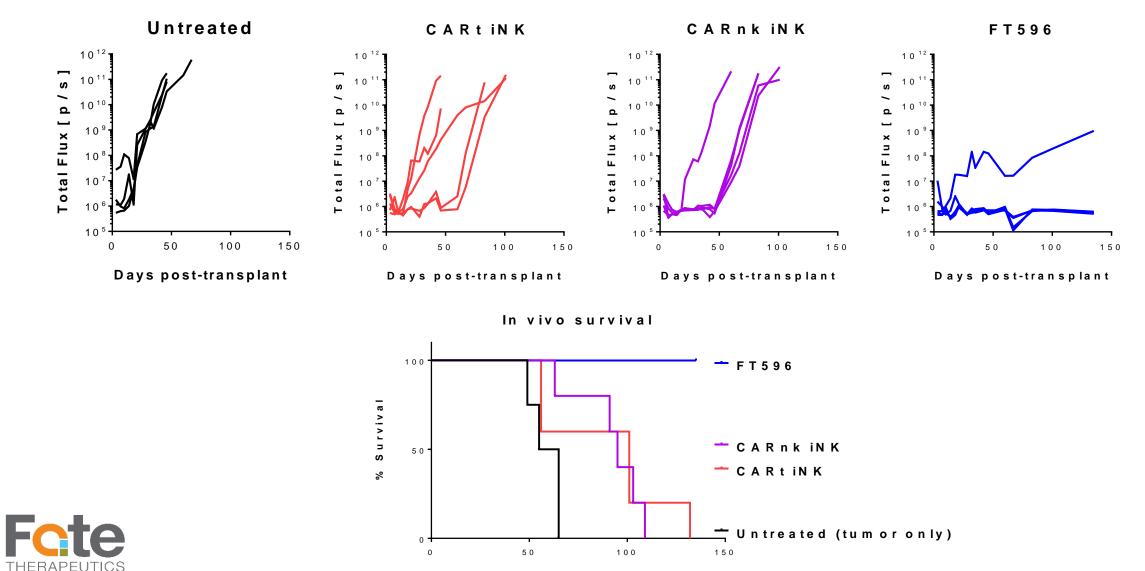


Days after IV injection



FT596 In Vivo Anti-Tumor Activity

Control of CD19+ Tumor Growth and Long-term Survival

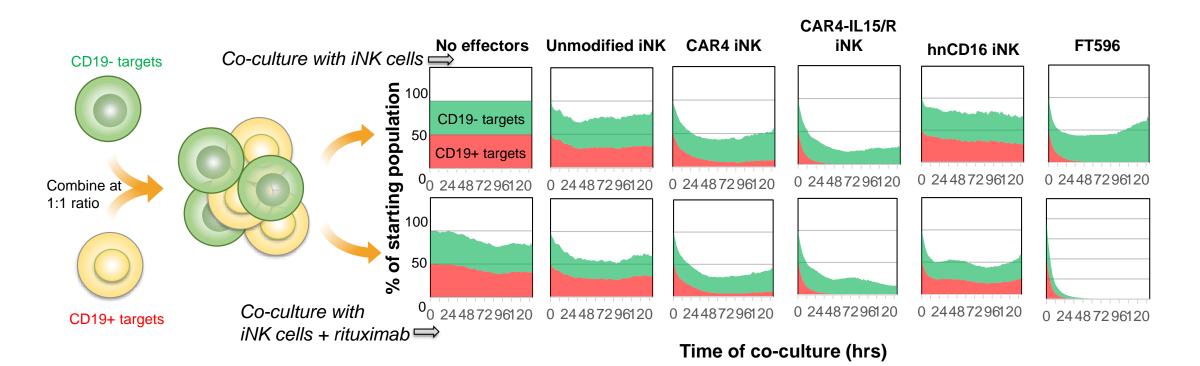


Days post-transplant

Page - 44 -

FT596 Mitigation of Antigen Escape

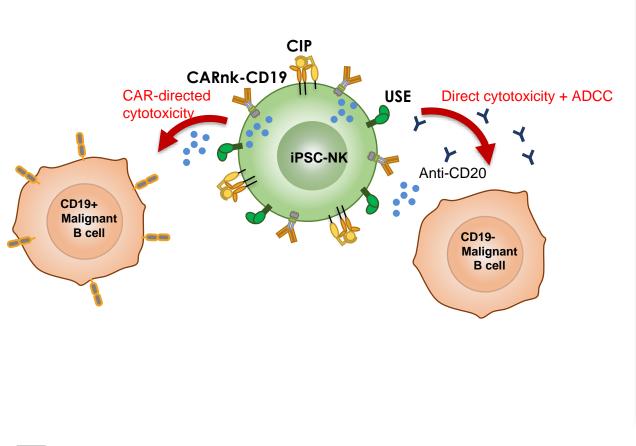
Eradication of CD19+ and CD19- Target Cells in Mixed-culture Cytotoxicity Assay

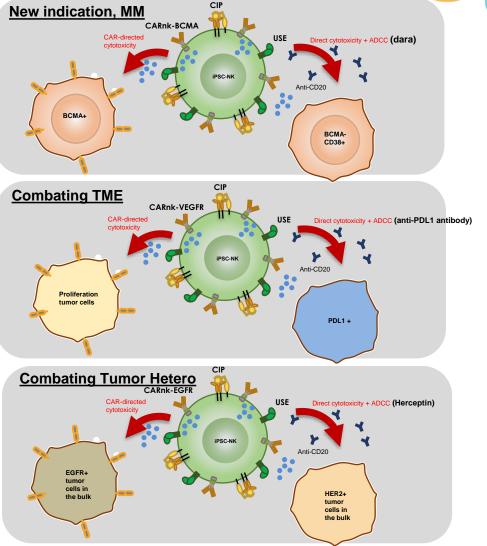






Versatile iPSC Product Platform: CAR | USE | CIP



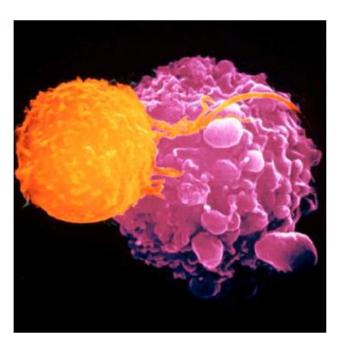




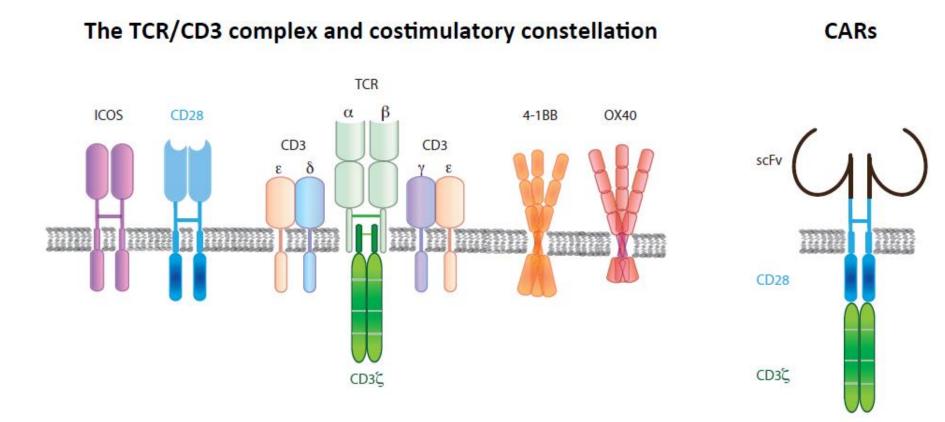
Creating an Off-the-Shelf CART Platform Michel Sadelain, MD, PhD

Cancer Center

- A major limitation of many current cancer therapeutics is their lack of curative potential.
- Curative immunotherapy must harness T cell specificity, persistence and potency.
 - Safety
 - Efficacy
 - Ĵ
 - Specificity
 - Long-acting
 - Potency





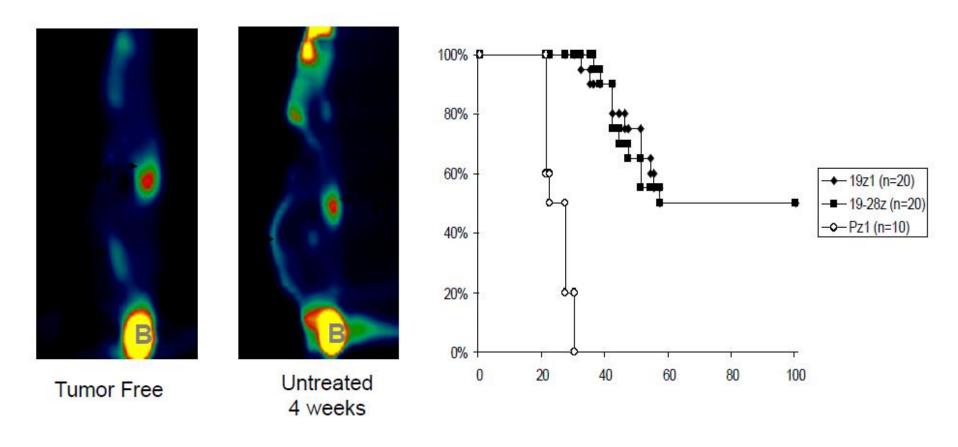


Sadelain, Riviere & Brentjens, Nat Rev Cancer, 2003 Sadelain, AACR Education Program, 2014





CD19 CAR T Cells Eradicate Systemic B-cell Malignancies in Mice

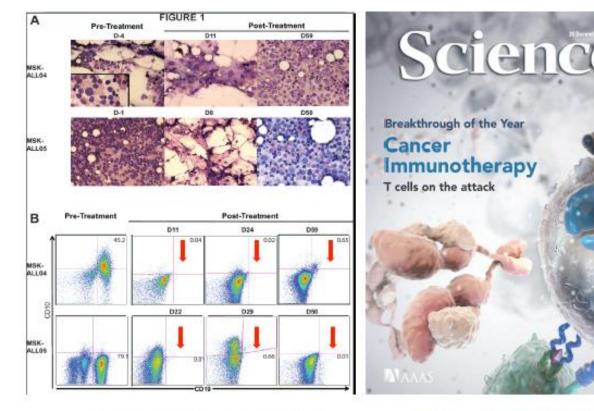


Brentjens et al, Nat Med, 2003





Rapid Leukemia Eradication Mediated by 19-28z CAR T Cells



Brentjens, Davila, Rivière et al, Science Transl Med, March 2013 Science, December 2013

Disease	Response Rate	Comments	Reference	
	Arrort			
Loukernia	Assessed			
B-cell acute lymphoblastic leuke- mia (in adults)	83-93	High Initial territorion rates; unresolved issue is whether CAR T-cell therapy is definitive therapy or should be ful- lowed by a loggreac hermitopolicii sters-cell therapy	Park et al., ²⁰ Oavia et al., ²⁰ Turtle et al. ²⁰	
B-cell acute lymphoblastic leuke- mia (in children)	68-90	Approximately 25% of patients reported to have a relapse with CD19-negative or CD18-low leukening CD22 CAR 1 cells may improve survival among some patients with CD19 relapses	Maude et al., ¹⁰ Maude et al., ¹⁰ Fry et al., ¹⁰ Lee et al. ¹⁰	
Omanic lymphocytic leukennia	\$7-71	Relapse is rare in patients who have a complete response; brutinib appears to increase response rates	Porter et al., ⁴¹ Turtle et al. ⁴²	
Lymphoma				
Diffuse large B-cell (emphorna	64-86	Approximately 49–50% of patients re- parted to have a durable complete re- sponse	Turtle et al.," Kochenderfer et al.," Schuster et al.," Neelapu et al."	
Folicular lymphoma	<i>r</i> 1	At a median follow-up of 28.6 mo, the re- sponse was maintained in 89% of pa- tients who had a response	Schueter et al. ⁴¹	
Transformed folloular lymphoma	70-41	A total of 3 of 3 patients with transformed folloular lymphome had a complete re- sponse	Furtle et al.," Schuster et al., "Nedapu et al."	
Refractory multiple myeloma	25-100	B-cell maturation antigen CAR T cells; stringent complete response in ap- proximately 25% of patients	Aliat al., ⁴⁷ Far at al., ⁴⁰ Berdaja et al. ⁴⁹	
Solicitumors				
Globlastona	ND	(04)In case report from phase 2 study, complete response on magnetic reco- nance imaging after intravenue and centercephal fluid administration of CART cells; complete response last ed 7.5 me	Brown et al **	
Pancreatic ductal adenocarcinoma 17		In one patient with liver metastasis, CAR T-cell treatment produced a complete metabolic response in the liver but was ineffective against the primary pagorealic turner	Beatty et al. ³¹	

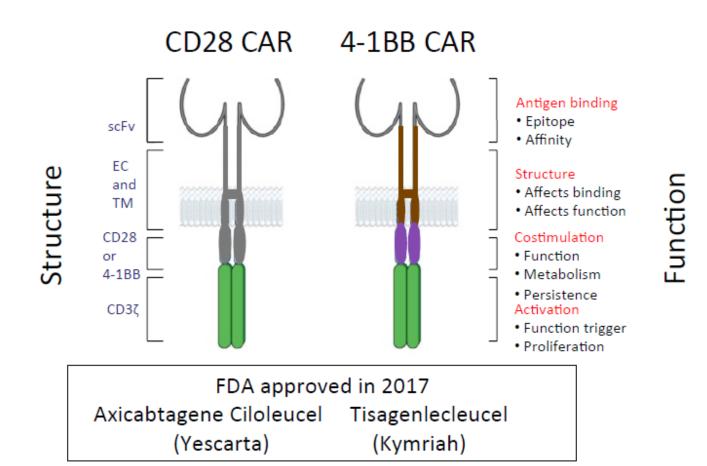
* ND denotes not determined.

June and Sadelain, N Engl J Med, 2018



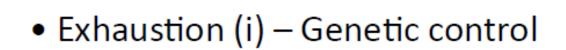
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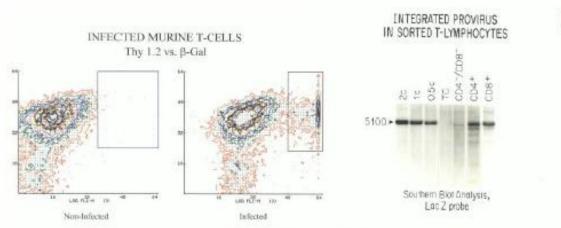
Page - 52 -



- Exhaustion (ii) Signaling control
- Off-the-shelf T-iPS CAR T cells



Genetic Engineering Evolution



Sadelain and Mulligan, ICI, 1992

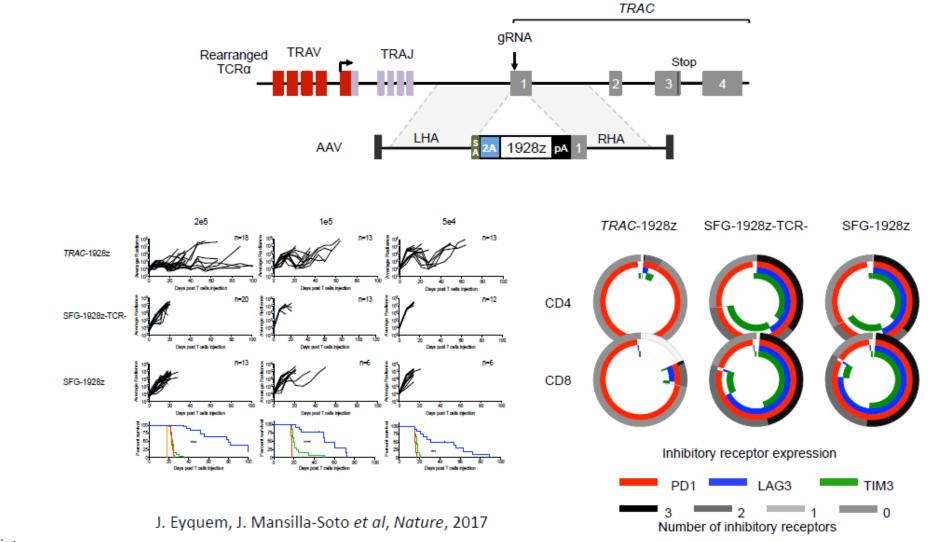
- Retroviral vectors (gRV, LV)
- Transposons (Sleeping Beauty)

TALE nuclease (TALEN) Zinc-finger nuclease (ZFN) Meganuclease CRISPR-Cas9 mmuniterrenter BRITHING "WAT" TITL Distant.



Page - 54 -

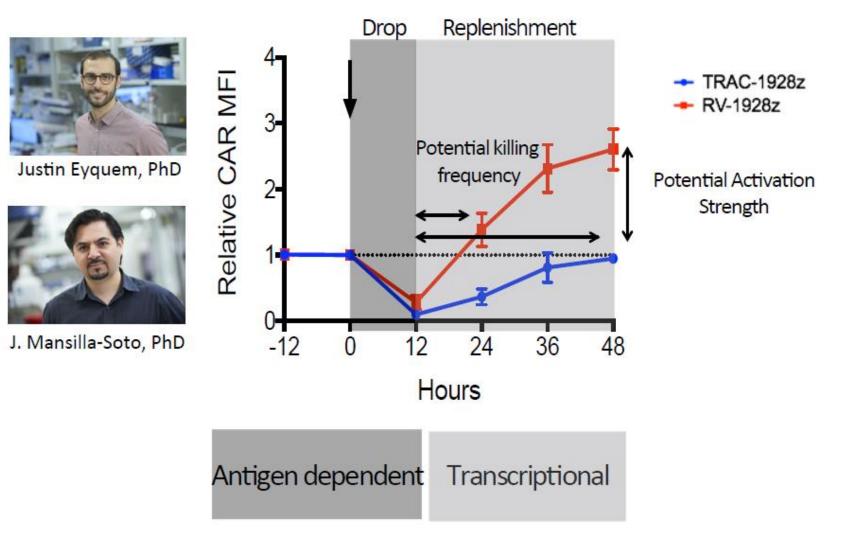
CRISPR/Cas9-targeted CAR cDNA Integration into the TRAC Locus



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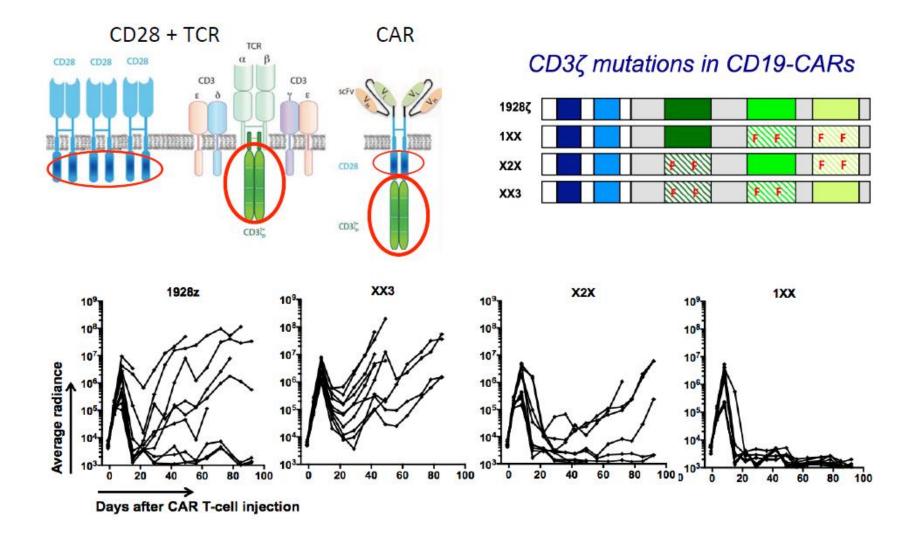
TRAC-CAR – The Model



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ITAM-based Calibration of Activation Strength in CD28/CD3ζ CARs

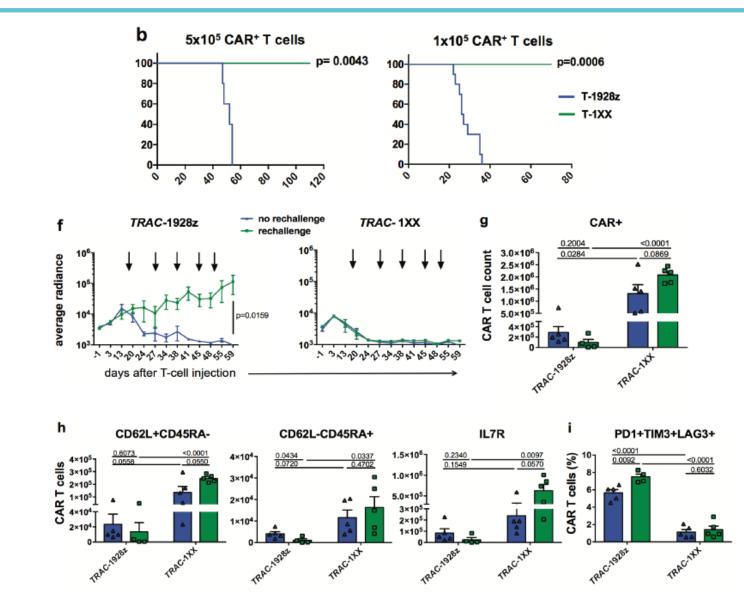




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TRAC-1XX CAR T Cells

Promote Memory and Protect against Tumor Re-challenge

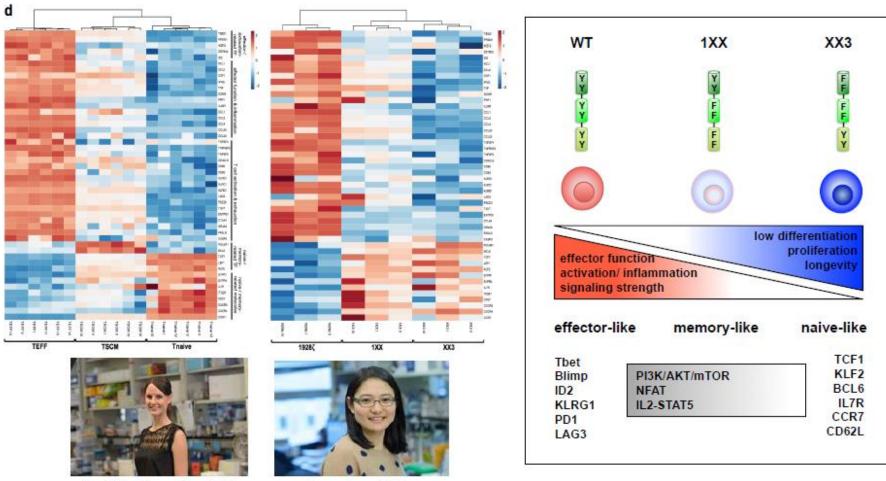








CAR ITAM-calibration Directs T-cell Fate



Judith Feucht, MD

Sun Jie, PhD

J Feucht, S Jie, et al, unpublished

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Alternative T-cell Sources

• Autologous T cells

- Bulk PBMCs
- T cell subsets
- Allogeneic T cells
- DLI-TCR-/-– VSTs

– DLI

- CB

– ESC

- TiPS

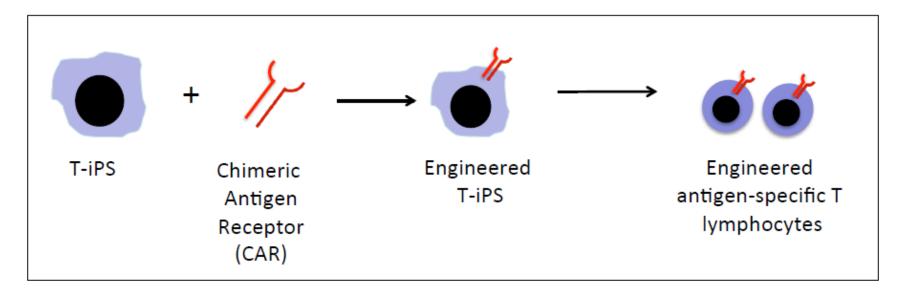
- In vitro generated T cells
- OCT-4 KLF-4 T lymphocyte TIPSC SOX2 MYC Y TCR Y CAR Ag specificity Enhanced function No alloreactivity Histocompatibility H HLA

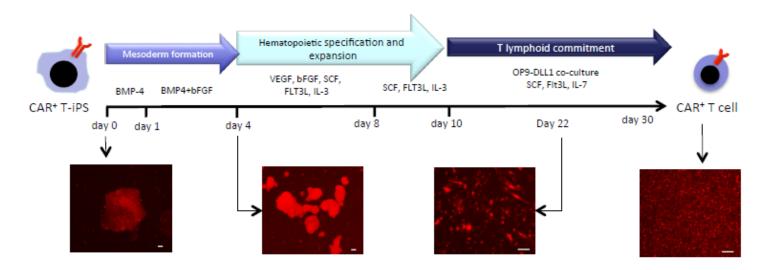


Themeli, Riviere & Sadelain, Cell Stem Cells, 2015



T-iPSC-derived CAR-targeted T Cells



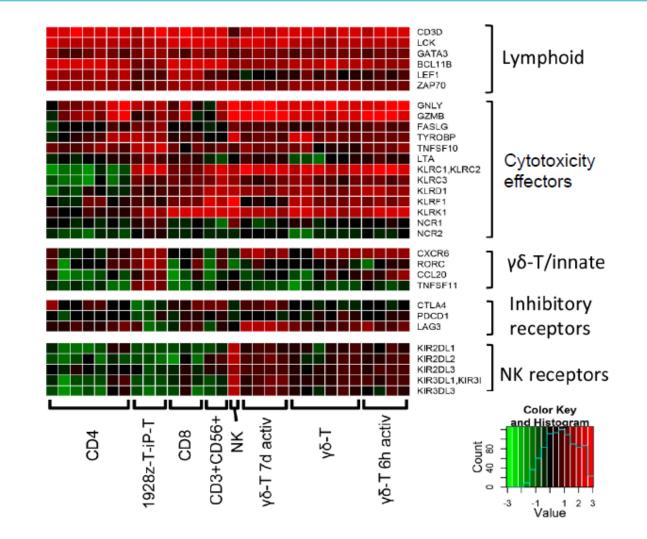




Memorial Sloan Kettering Cancer Center



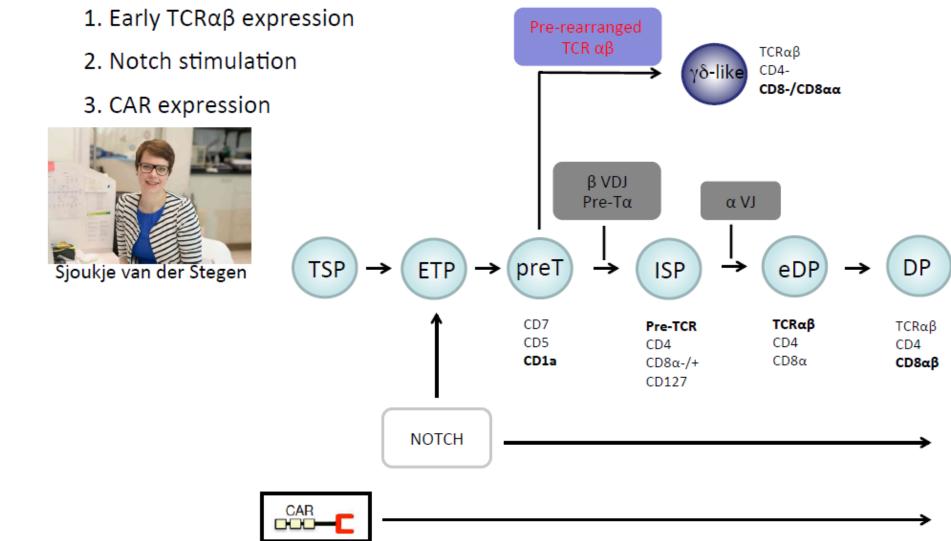
1928z-T-iPSC-derived T Cells Have an Innate-like Phenotype





Themeli et al, Nat Biotechnol, 2013

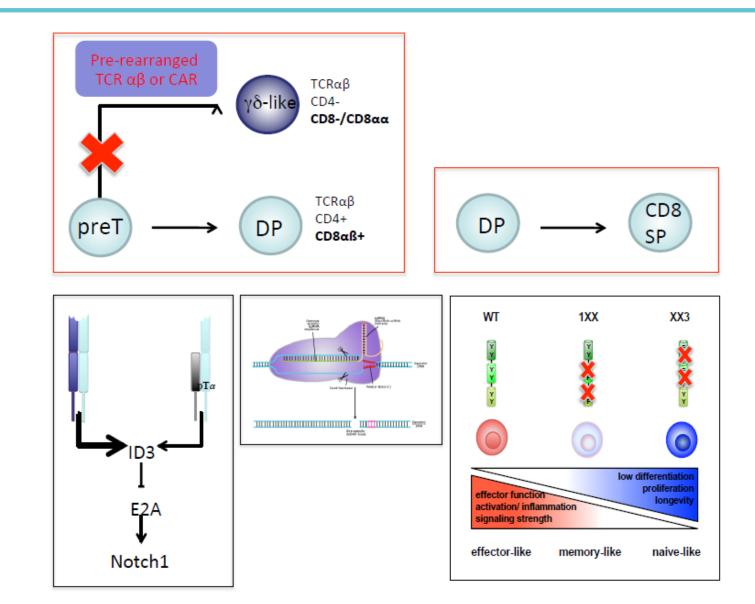
T-iPSC Differentiation in the Presence of Re-arranged TCR and CAR



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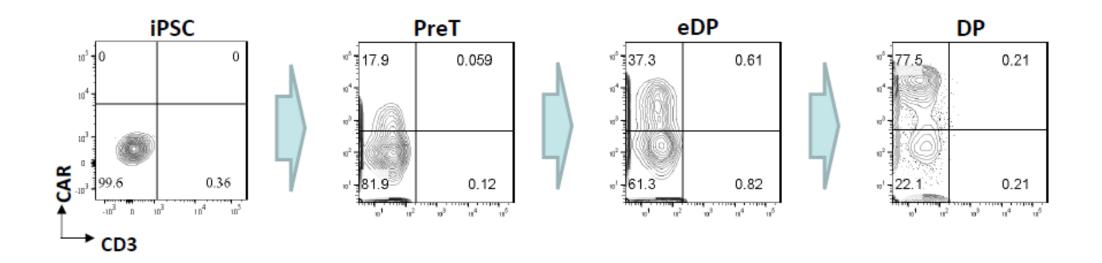


Removing the Barriers to DP Differentiation and SP Transition







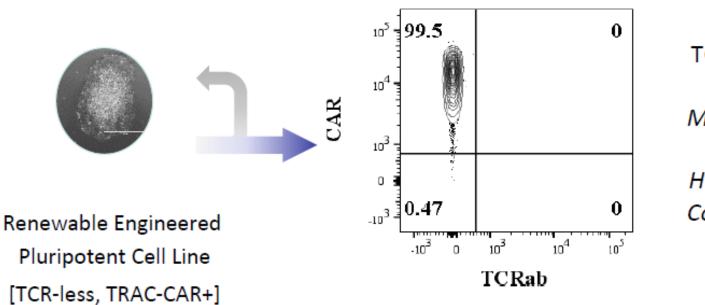


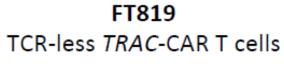
TRAC Regulated CAR Expression is Upregulated During Differentiation



FT819: iPSC-derived, TCR-less CAR19 T Cell Product Candidate

A First-of-Kind CAR T-cell Therapy





Master Cell Line Derived | Renewable Homogenous | Efficacious Cost-Effective | Multidose Enabling



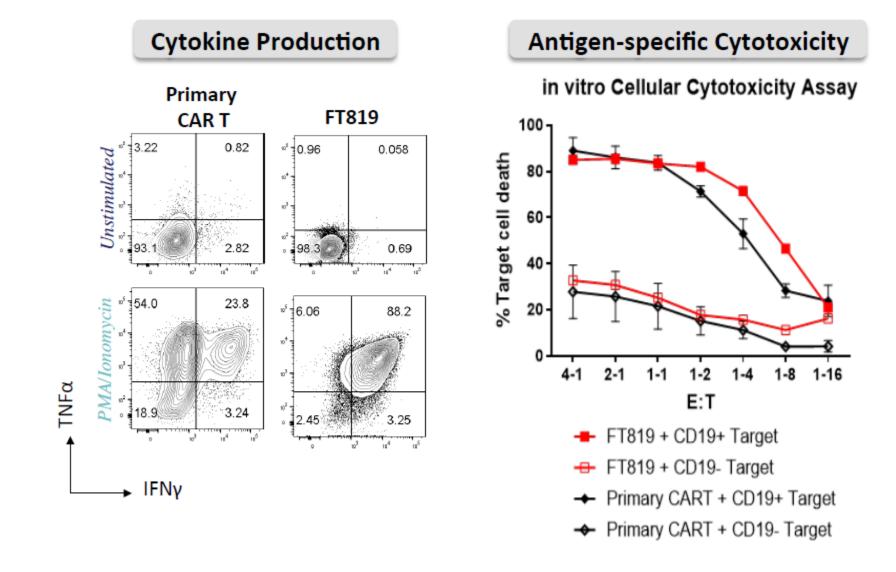
Memorial Sloan Kettering Cancer Center



FT819: iPSC-derived, TCR-less CAR19 T Cell Product Candidate

In Vitro Cytokine Production and CD19 Antigen Specificity









FT819: iPSC-derived, TCR-less CAR19 T Cell Product Candidate

-10

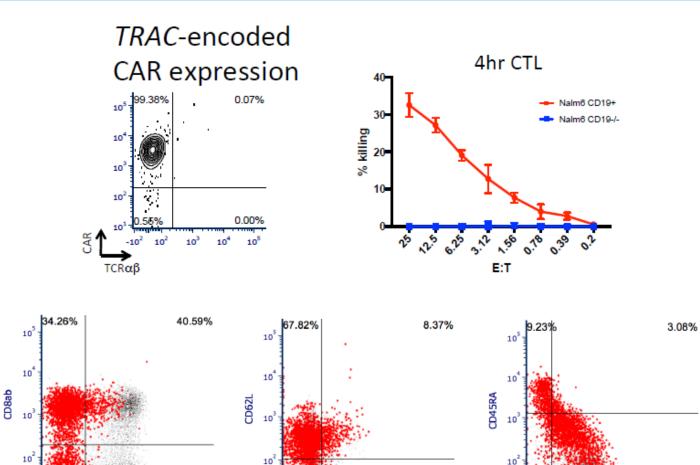
 $-10^{2}10^{2}$

10³ CCR7 10

11.96%

105

Display CD19-specific Toxicity and CD62L+ CCR7+ CD45RA+ Naive-like Phenotype



2.25%

105

-10



10

-10

13.19%

-10¹ 10²

10³ CD4

10⁴



Stegen et al, unpublished

CD45RO

 -10^{1} 10^{2}

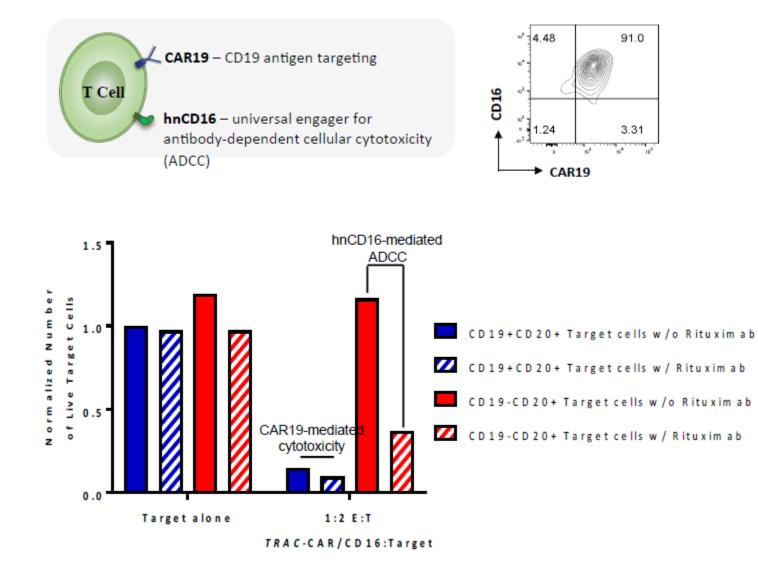
80.49%

105

104

FT896: FT819 Engineered with hnCD16 Fc Receptor

Mitigating Antigen Escape through ADCC

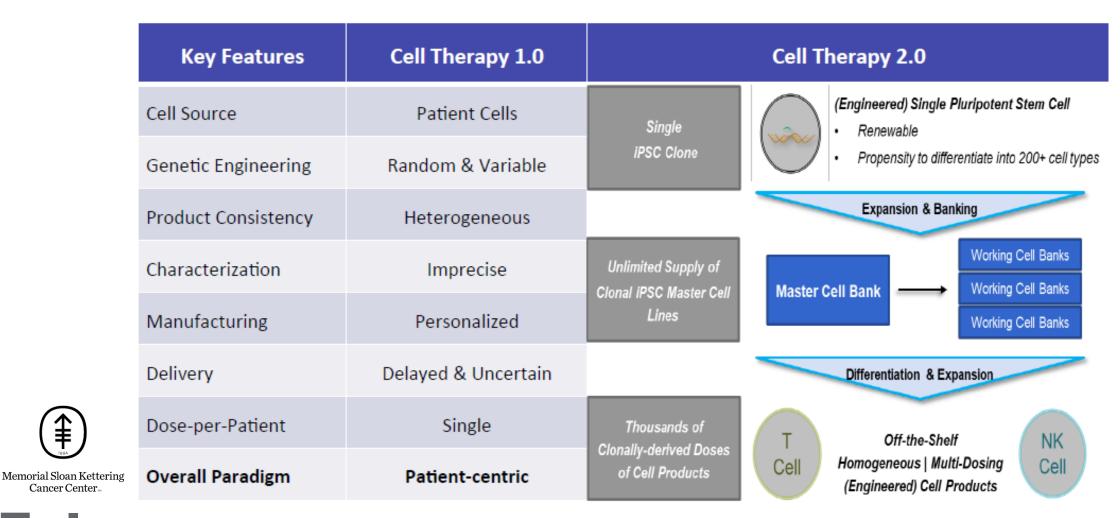






iPSC-derived, TCR-less CAR T Cells

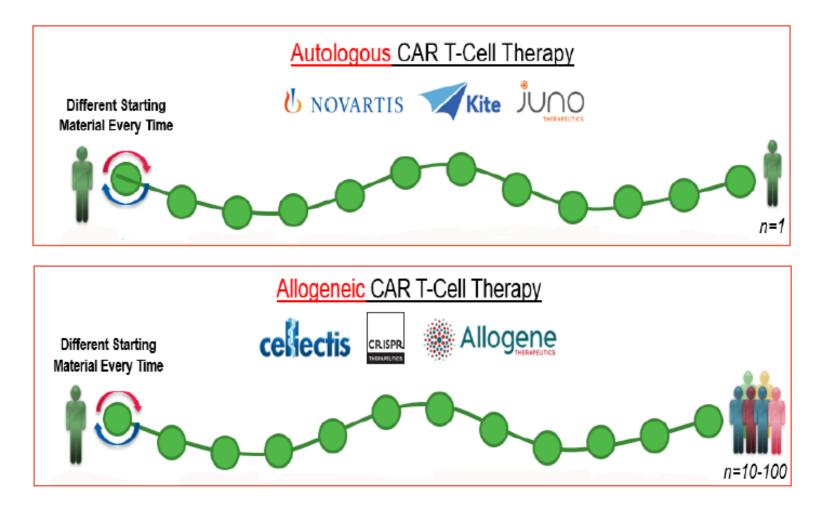
A Paradigm Shift





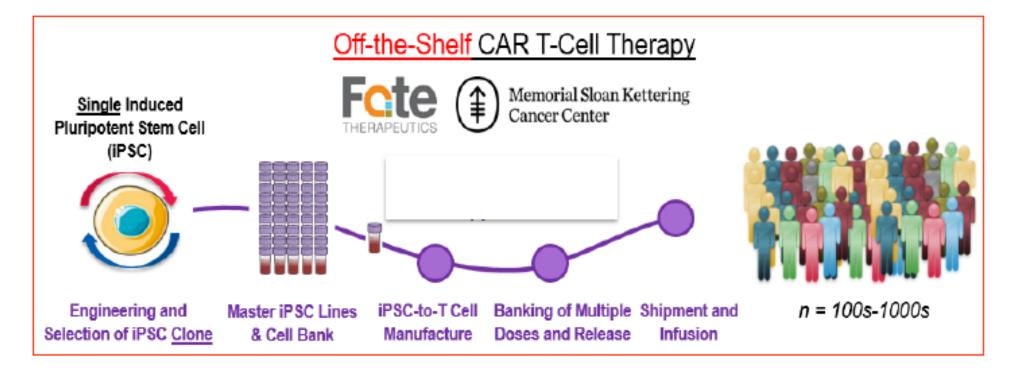
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Cancer Center









Memorial Sloan Kettering Cancer Center



Concluding Remarks Scott Wolchko, President & CEO

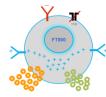
iPSC-derived, Off-the-Shelf Cancer Immunotherapy Pipeline

	Description	R&D	Preclinical Dev	Process Dev	Manufacturing	IND Filing	Phase 1
Off-the-Shelf I	NK Cells (FT5xx)						
FT500	Allogeneic iNK + Check Point Inhibitors						
FT516	hnCD16 iNK (ADCC) + monoclonal antibodies						
FT596	CAR19 + hnCD16 + mblL15 CD19 CARnk USE CIP						
FT538	CD38 KO + hnCD16 + mbIL15 + Daratumumab						
FT576	CAR-BCMA + hnCD16 + CD38 KO +/- Daratumumab						
FT5solid	CARsolid + USE + CIP + multifaceted engineered attributes						
Off-the-Shelf	T Cells (FT8xx)						
FT819	TCRless TRAC-Targeted CAR19						
FT896	TCRIess TRAC-Targeted CAR19 + USE						
FT817	TCRIess TRAC-Targeted CAR-BCMA						
FT8solid	TCRIess + TRAC-CARsolid + USE + multifaceted engineered attributes						
CTE ERAPEUTICS	UNIVERSITY OF MINNESOTA Driven to Discover≊	G Oslo Univers	sity Hospital	UC Sat	n Diego	Memorial Sloan-K Cancer Center The Best Cancer Care. Anywh	Page



American Society of Hematology

Helping hematologists conquer blood diseases worldwide



FT500 iPSC-Derived NK Cells and **Anti-PD1 Antibody Synergize** to Enhance T-Cell Cytokine and Cytolytic Responses Against Multiple Tumors



FT596 Off-the-Shelf Natural Killer Cells with Multi-Functional Engineering Using a Novel **Anti-CD19 Chimeric Antigen Receptor** Combined with Stabilized CD16 and IL15 Expression to Enhance Directed Anti-Tumor Activity

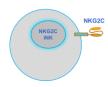


FT538 CD38 Deficient, CD16 Engineered NK Cells Exhibit Enhanced Antibody Dependent Cellular Cytotoxicity without NK Cell Fratricide to Augment Anti-Myeloma Immunity in Combination with Daratumumab



iPSC-Derived NK Cells Genetically Modified to Express NKG2C/DAP12 Mediate Potent Function When Targeted through an NKG2C/IL15/CD33 Tri-Specific Killer Engager

 FT819 Pluripotent Cell-Derived Off-the-Shelf TCR-Less CAR-Targeted Cytotoxic T Cell Therapeutic for the Allogeneic Treatment of B Cell Malignancies



FATE-NK100E: Efficient Scale-up and Pre-clinical Evaluation of NKG2C+ Adaptive NK Cell Expansion for Therapy Against High-risk AML/MDS











Feite Therapeutics

Better Cells For Better Therapies™