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# RIGHT TARGETS. RIGHT CELLS. RIGHT PLACE.

We target oncogenic driver mutations to deliver transformative therapies for patients with solid tumors

- Leader in Precision Immunotherapy developing a deep pipeline of TCR-based therapies that have first-in-class / best-in-class potential
- Focus on targeting the most frequent oncogenic driver mutations in solid tumors; including KRAS and P53
- Proprietary platform technologies to build potent and persistent T cell therapies and generate bispecific T cell Engagers
- Science-driven team and founders focused on continued innovation to develop novel therapies with curative potential



# **Development Pipeline Milestones**



- Lead KRAS targeting program
- Phase 1a data generation ongoing in 2L+ solid tumor indications
- Dose escalation proceeding on track across ~10 US sites with indication-specific expansions planned

Completion of Dose Escalation anticipated 2H25



- Doubles addressable KRAS population
- Introduces THRIVE non-viral geneediting platform to enable future product development
- IND-enabling studies complete

IND clearance 1H 2025



- Expands beyond KRAS to address largest P53 population
- Differentiated development candidate designed to integrate immunostimulatory signals for optimal T-cell activation

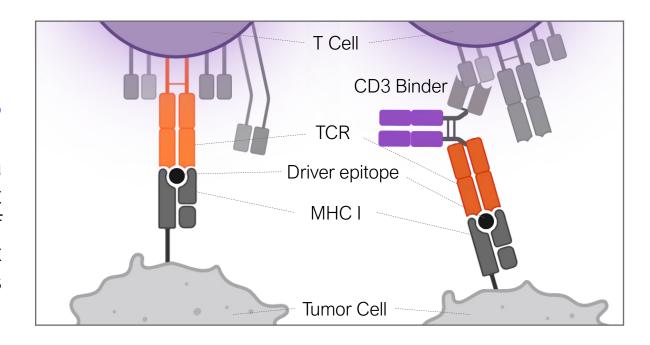
Pre-IND planning under way



# **Affini-T** is Developing Two TCR-Based Therapeutic Modalities

# TCR-T Cell Therapies

T cells engineered with a transgenic TCR that allows recognition of specific driver mutant epitopes



# Bispecific T Cell Engagers

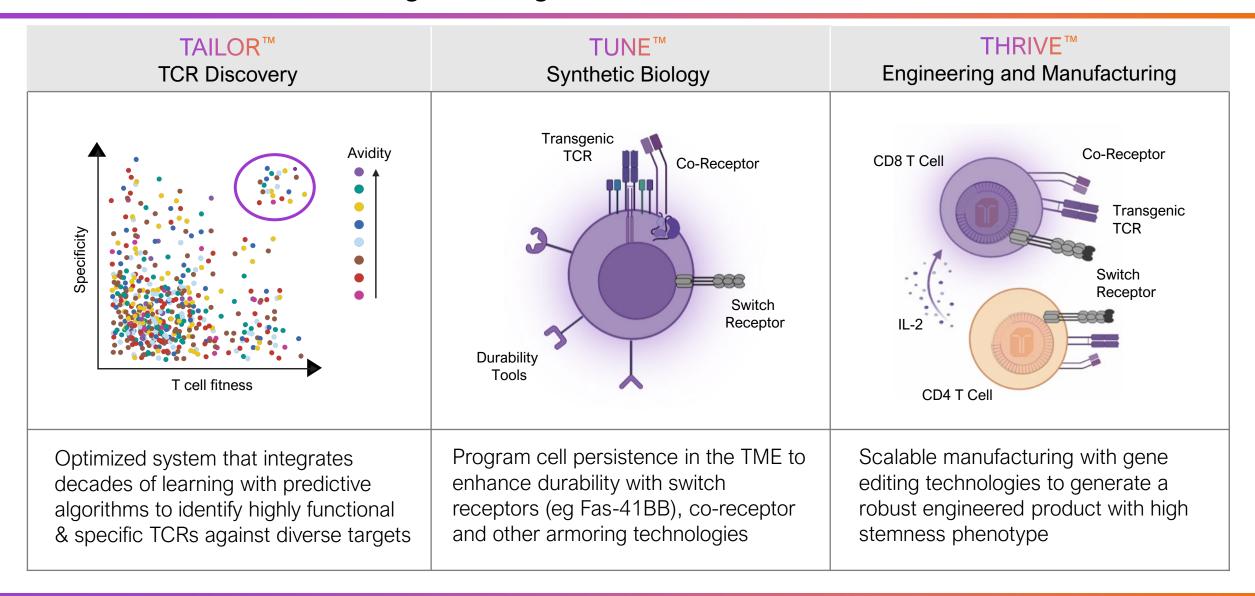
Bispecific biologics combining a TCR moiety to recognize the driver mutant epitope with a CD3 binding moiety to recruit endogenous T Cells



# First-In-Class Potential for Multiple Products Targeting Oncogenic Drivers in Solid Tumors

Target	Program	Discovery	Preclinical	Phase 1
Autologous TCR-T	AFNT-211	HLA-A11		NCT06105021
KRAS G12V	AFNT-111	HLA-A11		NCT06043713
		HLA-A2 HLA-A3		
KRAS G12D	AFNT-212	HLA-A11		IND Clearance 1H 2025
		HLA-B07 HLA-A3		
P53 R175H	AFNT-313	HLA-A2		*IND Submission 2026
T Cell Engager				
KRAS G12V		HLA-A2		
P53 R175H		HLA-A2		
Undisclosed		Multiple		

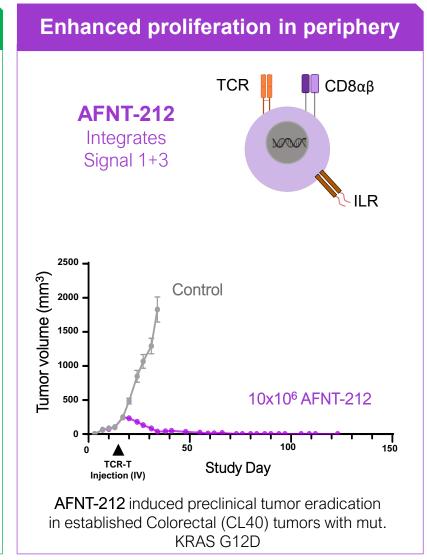
# Affini-T Platform Technologies Designed To Generate Potent & Tolerable TCR-T Cells

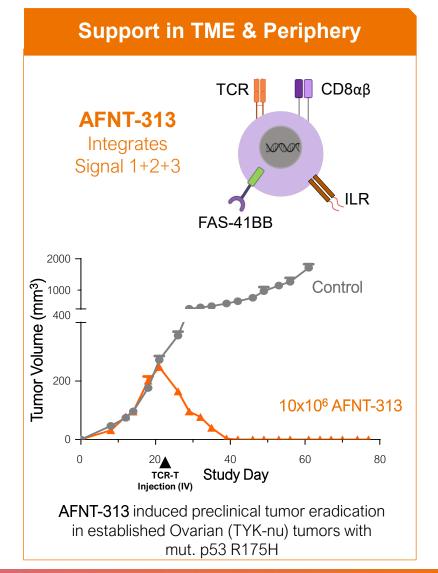




## Innovative pipeline leverages TAILORTM, TUNETM & THRIVETM, designed to eradicate difficult-to-treat solid tumors

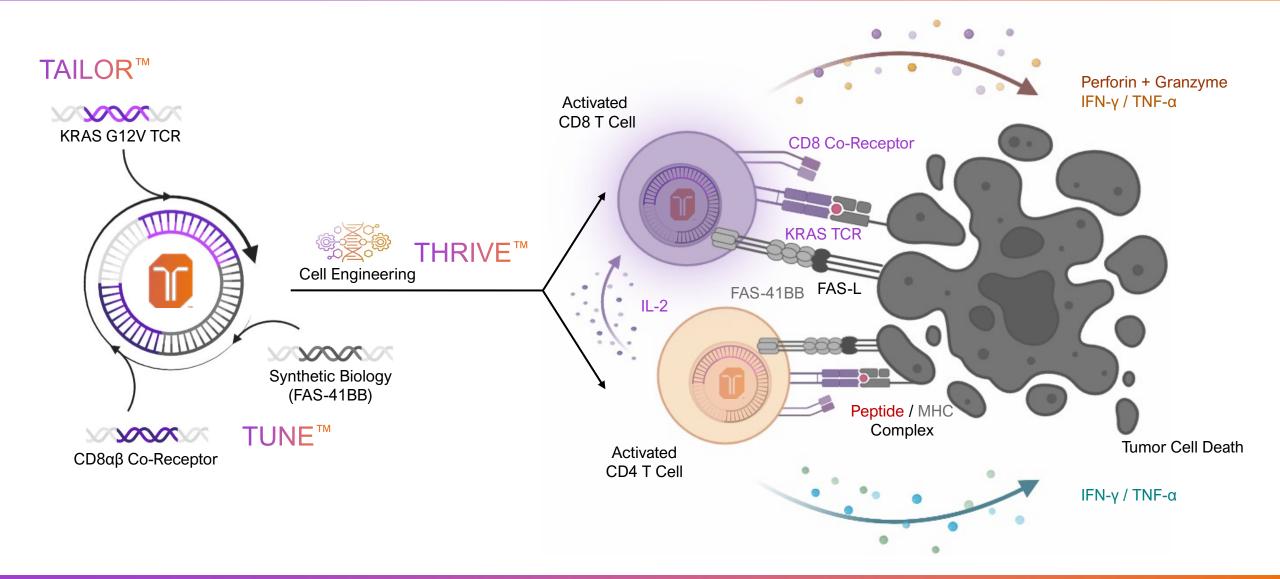
#### **Enhanced survival in TME TCR** CD8αβ **AFNT-211** Integrates Signal 1+2 FAS-41BB (Emm.) Control Nolume 450-300-150-10x106 AFNT-211 20 30▲ 50 40 TCR-T Study Day Injection (IV) AFNT-211 induced preclinical tumor regression in established Breast (SW527) tumors with mut. KRAS G12V





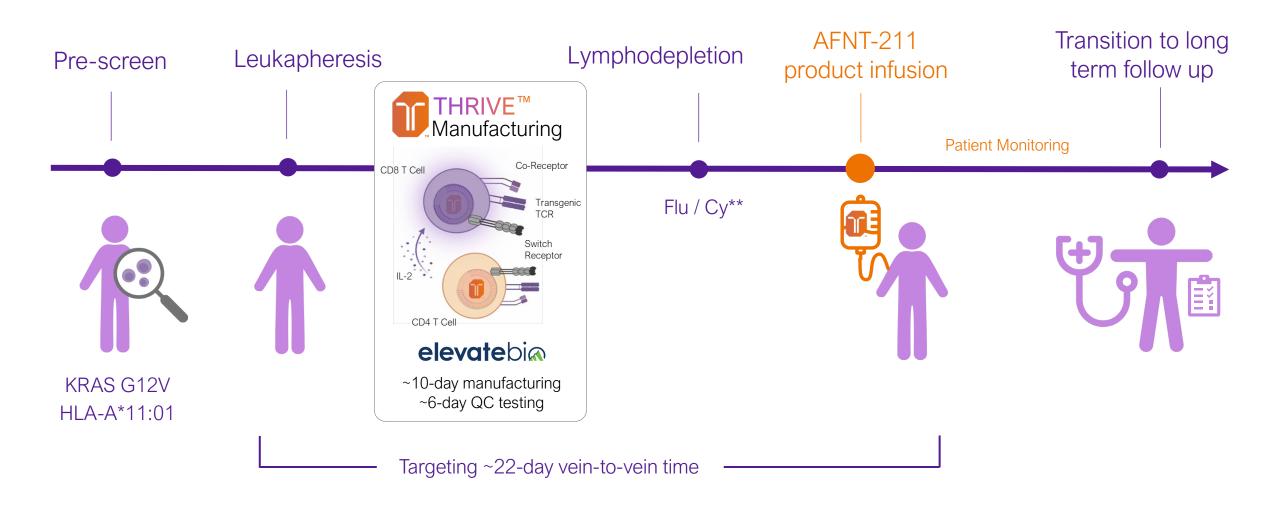


## **AFNT-211**: A11 KRAS G12V TCR Engineered T Cells + FAS-41BB Durability Switch Receptor



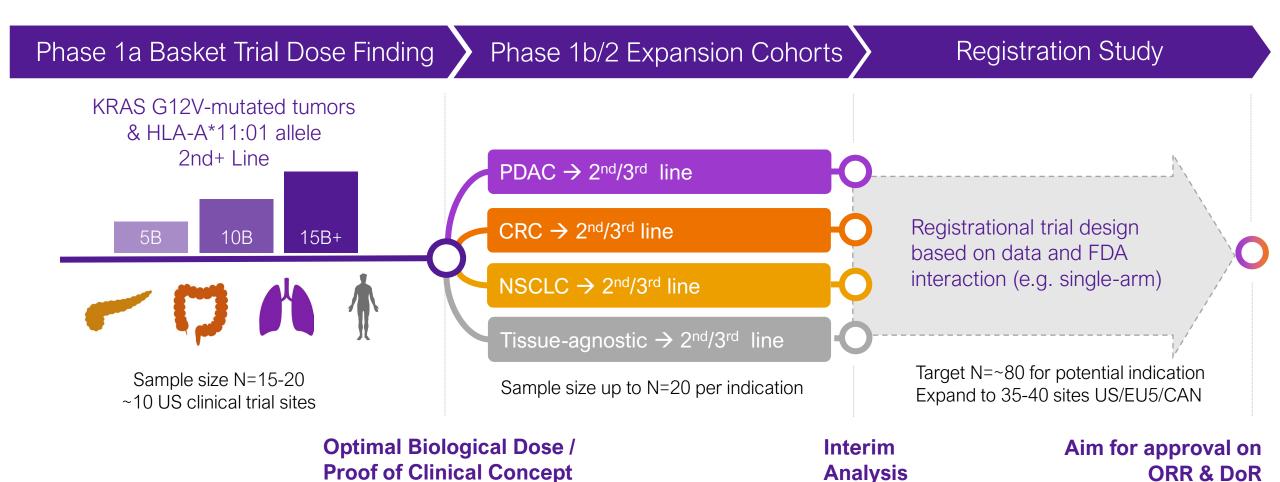


# **AFNT-211:** Patient Journey



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# **AFNT-211:** Clinical Development Plan



\*Excluding primary brain tumors



**Analysis** 

# **AFNT-211**: Patient Selection & Biomarker Strategy

#### I. Patient Selection

- KRAS G12V mutation routinely reported by PCR, NGS, and CGP; by tumor or liquid biopsy (ctDNA)
- HLA A\*11:01 via standard typing assays (Histogenetics ASHI accredited) or CGP
- 2L+, Upside: frontline consolidation

#### II. Monitoring - Peripheral Blood

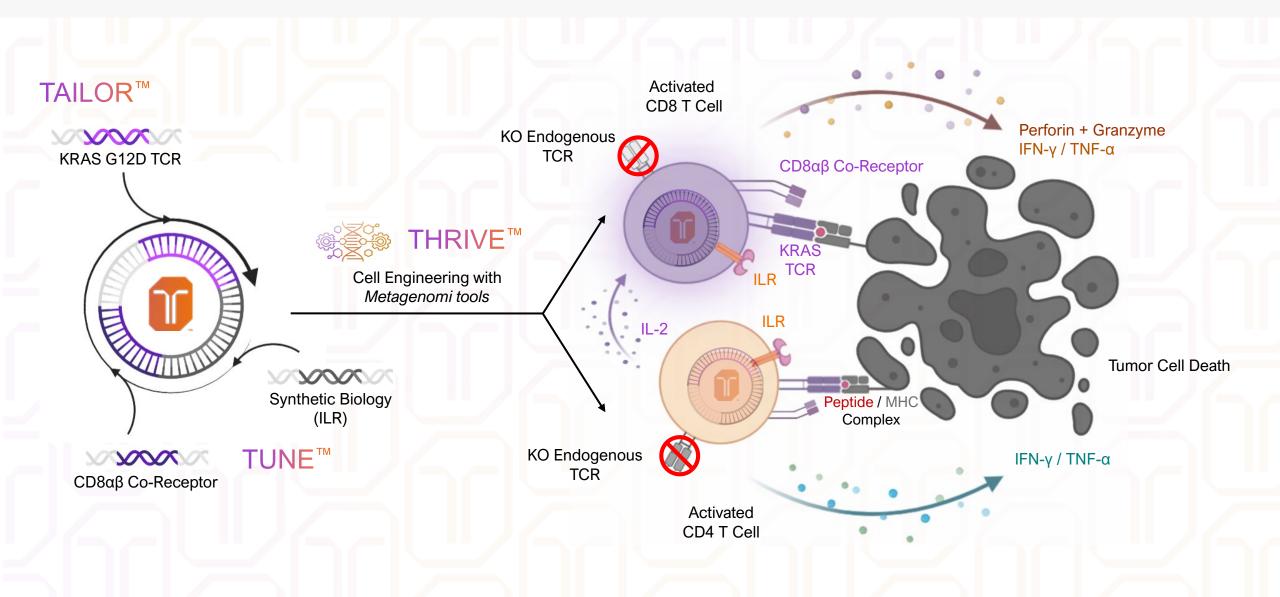
- PK: TCR-T expansion (VCN and/or CK), C<sub>max</sub>, T<sub>last</sub>, AUC
- PD: TBNK depletion and reconstitution; cytokines, e.g. IL7, IL15, IFNγ
- MRD: ctDNA
- TCR-T phenotyping: TCR-T cell differentiation, activation, and exhaustion
- Safety: Replication-competent lentivirus, insertion site analysis

#### III. Phenotyping - Tumor

- RECIST: Imaging response assessment
- TME: AFNT-211 TCR-T cell infiltration and phenotyping, Host immune infiltration (including CD4 and CD8)
- Tumor characterization: TMB, MSI, PD1, FasL, IFNy and APM

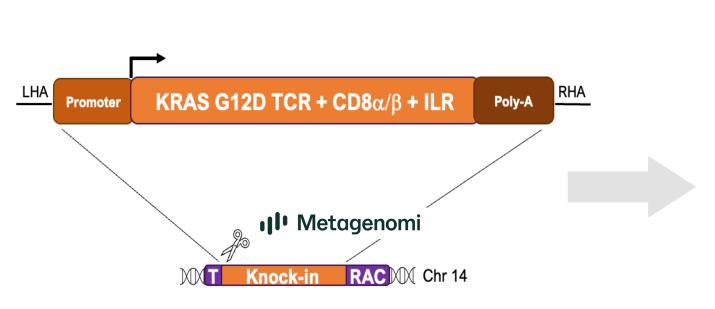


## AFNT-212: A11 KRAS G12D TCR Engineered T Cells + Durability Switch Receptor + Gene Editing



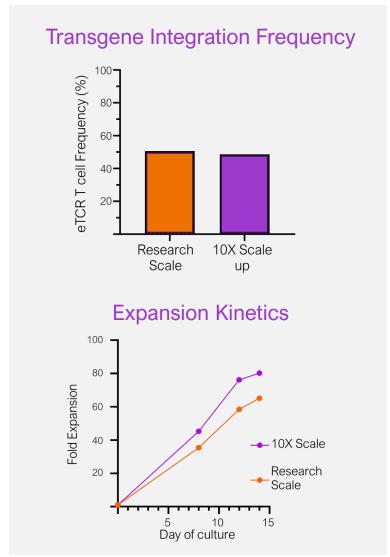


## **THRIVE™** High Efficiency Non-viral Delivery of Large Transgenes at cGMP Scale

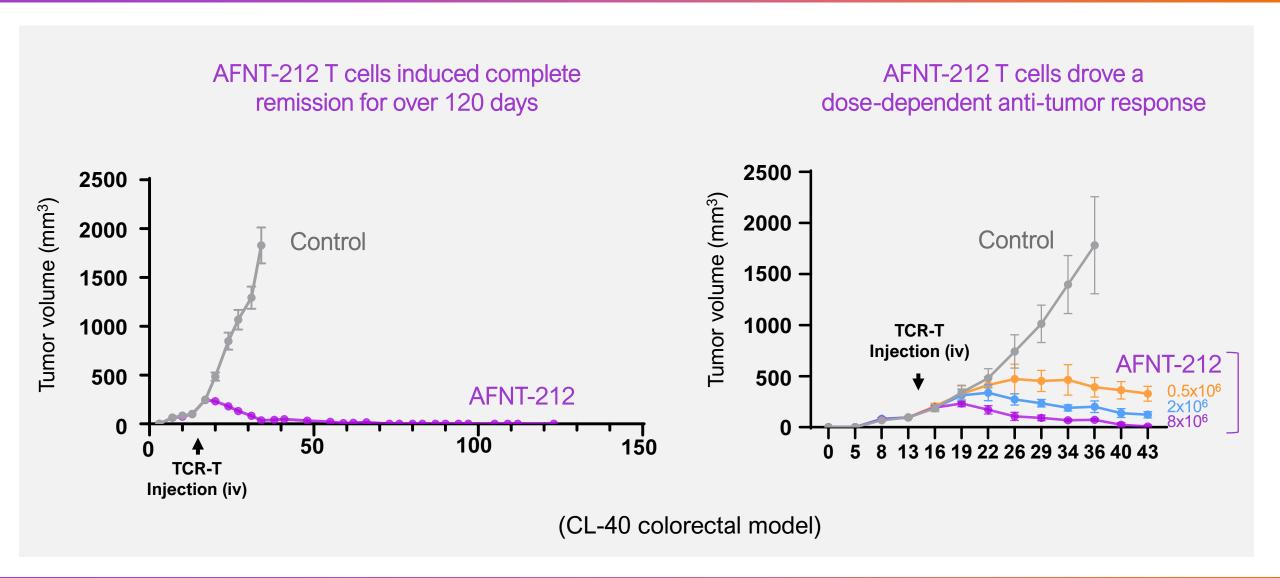


Transgenes inserted within the endogenous TRAC gene via CRISPR/Cas driven homology mediated repair

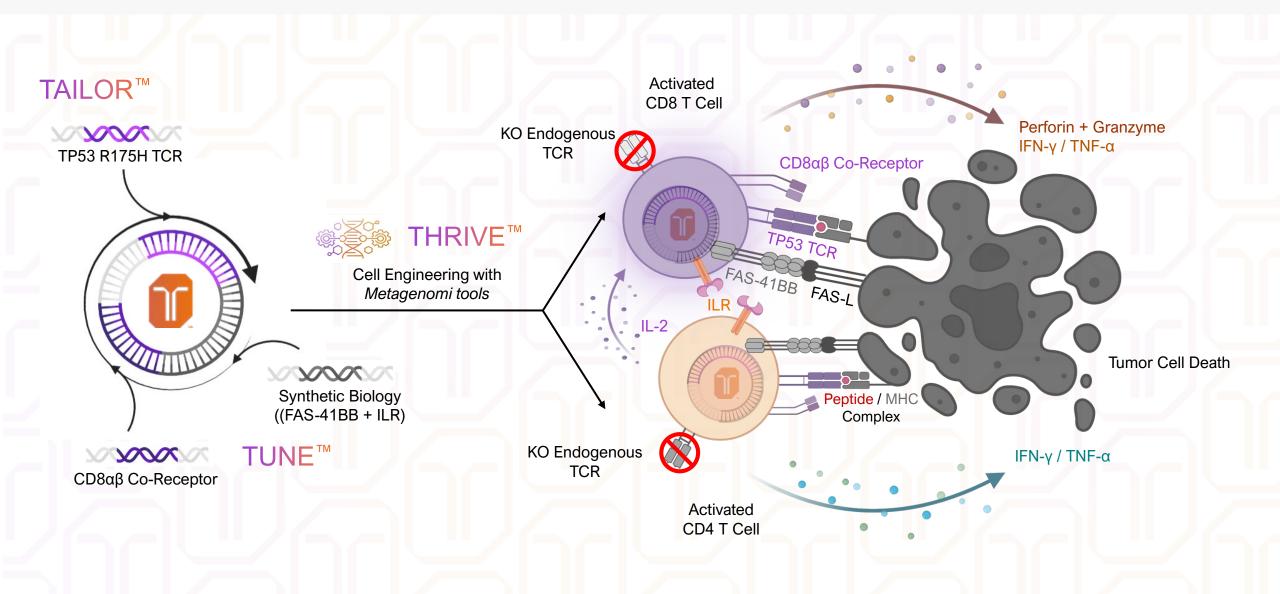
TRAC-inserted knock-in of 6.3kb 5 gene cassette



## AFNT-212 Showed Robust Anti-tumor Activity in Established Tumor Mouse Models in vivo

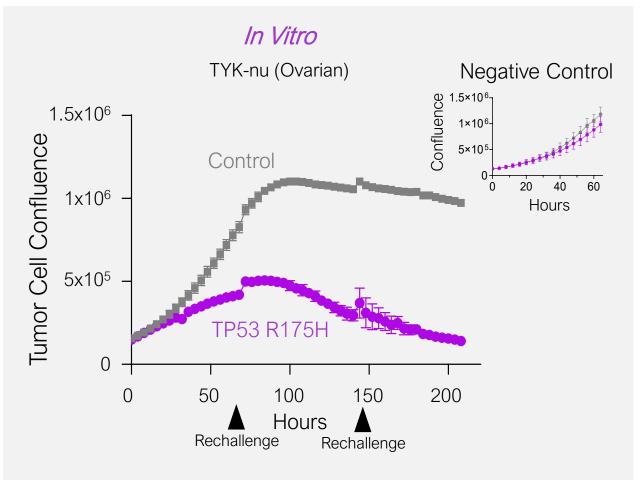


## AFNT-313: A2 TP53 R175H TCR Engineered T Cells + 2 Durability Switch Receptors + Gene Editing

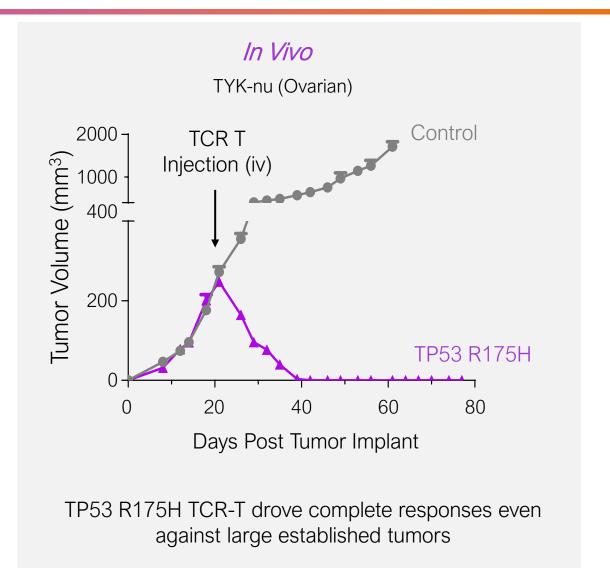




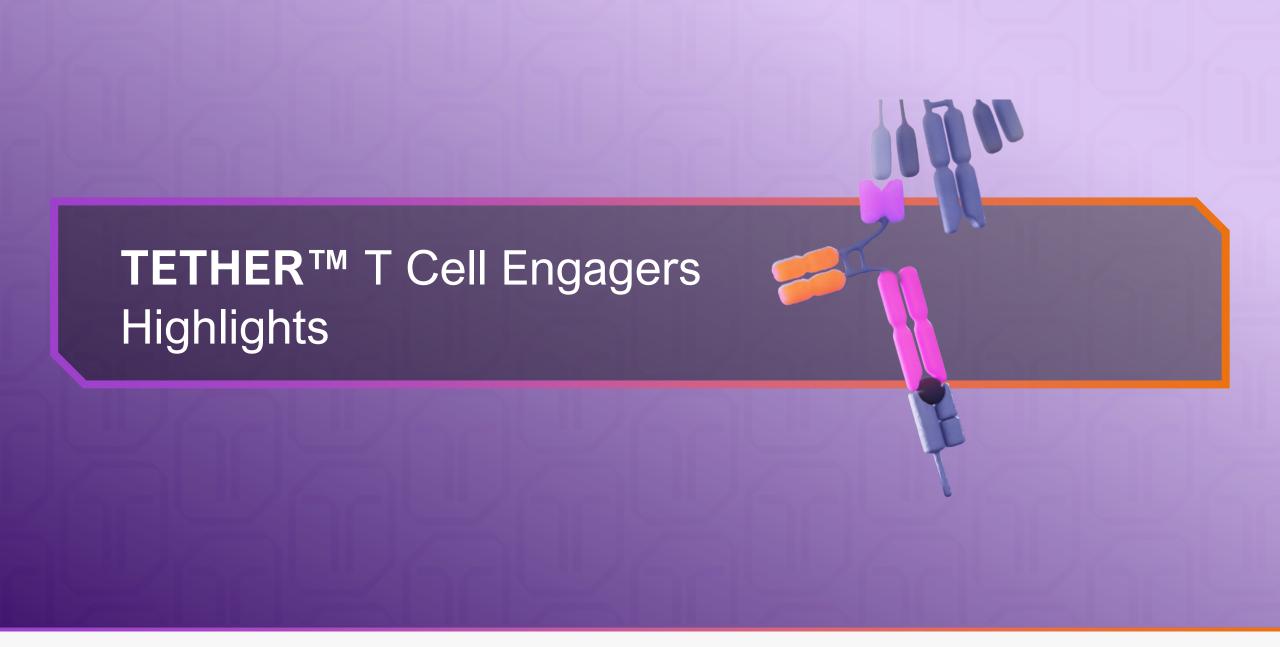
### AFNT-313 TCR-T Showed Robust Preclinical Tumor Cell Control In Vitro and In Vivo



TP53 R175H TCR-T cells controlled tumor proliferation even following multiple re-challenges





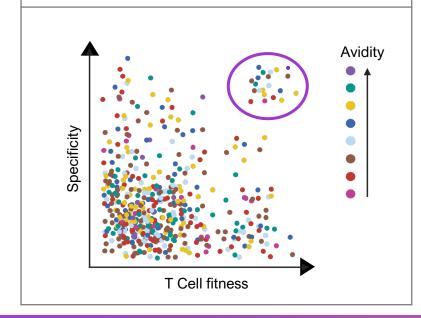




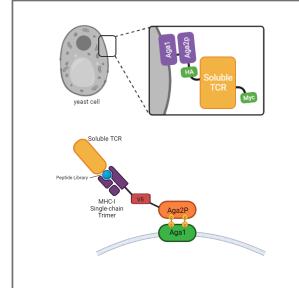
## Affini-T Platform Technologies Designed to Generate Highly Specific & Active T Cell Engagers

TAILOR™
TCR Discovery

- High throughput screening, predictive algorithms, and decades of learning
- Generate highly functional and tolerable TCRs against diverse targets



2 Affinity Maturation

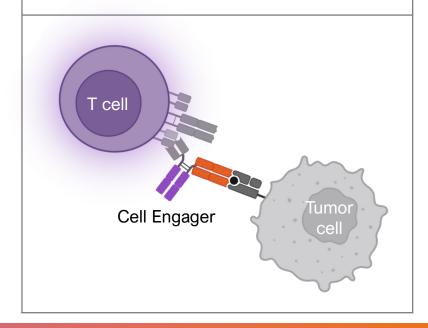


#### **Yeast Display Modalities**

- Libraries to identify high affinity TCRs
- Libraries for specificity screenings

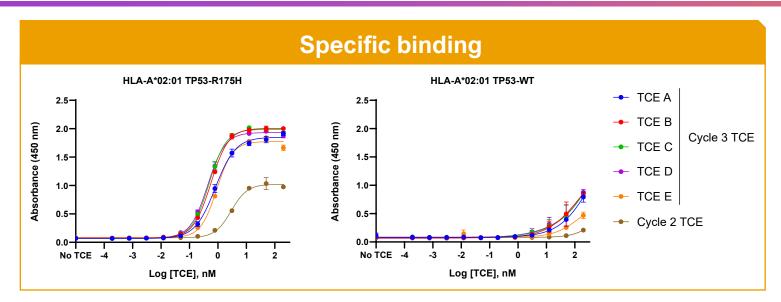
TETHER™ T Cell Engagers

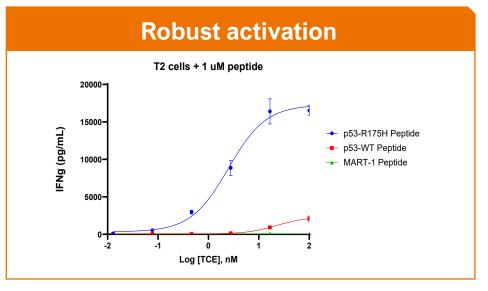
- Affinity matured TAILOR<sup>™</sup> TCRs with high specificity and affinity
- Balanced CD3 binders for optimal T cell engagement
- Bispecific T cell engager format with long half-life

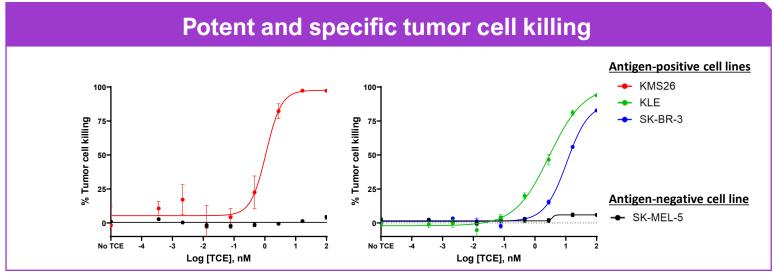




## A2 TP53 R175H **TETHER** TCEs Showed Robust & Specific Tumor Killing & T Cell Activation *In Vitro*



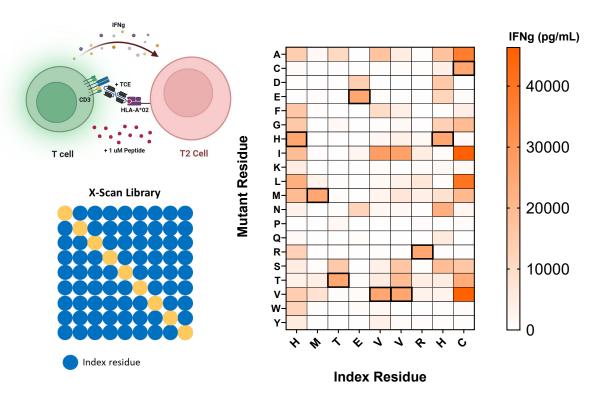




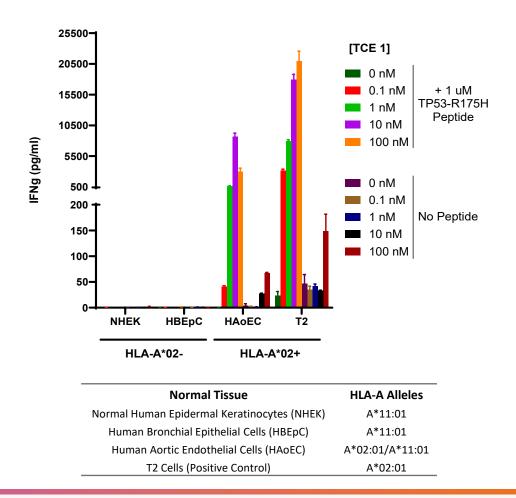


# Preliminary Data for A2 TP53 R175H TCE Suggested Favorable Tolerability & Specificity Profiles

#### X-scan off-target binding profile



#### Did not mediate activation toward select normal tissues





# Experienced Management Team Supported by Blue-Chip Investor Syndicate

Executive Leadership



Jak Knowles, MD Co-Founder and CEO







Dirk Nagorsen, MD Chief Medical Officer





Kim Nguyen, PhD Chief Technical Officer





Loïc Vincent, PhD Chief Scientific Officer



Board of **Directors** 





















Dan Faga AnaptysBio



























# Exceptional Scientific Co-Founders, SAB, and Strategic Partners

#### Co-Founders





Aude Chapuis, MD Scientific Co-Founder Fred Hutch
Cancer Center



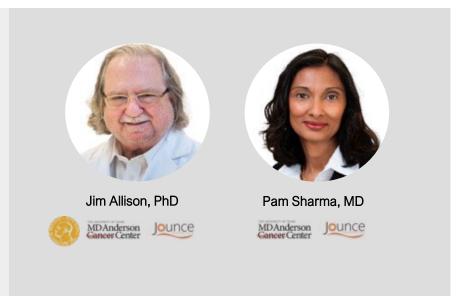
Scientific Co-Founder Fred Hutch
Cancer Center



Chris Klebanoff, MD Scientific Co-Founder



#### Scientific Advisors



## Strategic Partners













# **Upcoming Catalysts**

# AFNT-211 A11 KRAS G12V

- Phase 1a data generation ongoing in 2L+ solid tumor indications
- Completion of dose escalation anticipated 2H25

# AFNT-212 A11 KRAS G12D

- IND enabling studies complete
- IND clearance 1H 2025
- THRIVE<sup>TM</sup> non-viral gene-edited FiH



- IND enabling studies underway
- Pre-IND feedback anticipated 2025
- 2026 IND



Precision Immunotherapy
targeting oncogenic driver
mutations to develop potentially
curative therapies for patients
with solid tumors



