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Now is the Time for a Breakthrough in Cell Therapy

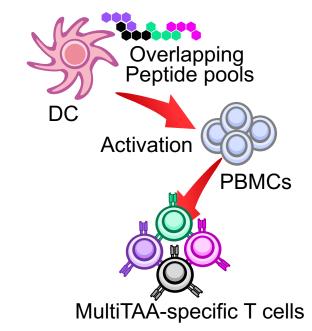
CAR-T, TCR and NK therapies have made headway in treating cancer, but data underscores the many hazards and limitations

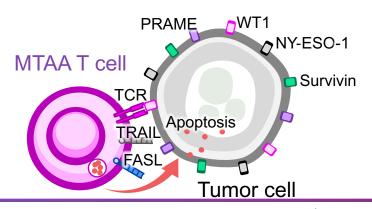
Clinical Impact	 Limited durability of response Limitations in solid tumors
Limitations of Single Antigen Targeting	 Treatment limited to targeted antigen High relapse rate due to antigen-negative escape Unproven ability beyond B-cell tumors
Clinical Safety Concerns	 Cytokine Release Syndrome (CRS) is not only common but potentially required for CAR-T efficacy Neurotoxicity has caused program ending fatalities and is still not well understood
Product Safety Concerns	Retroviral, Lentiviral, Transposon (integrated genes) potential of insertional mutagenesis
High Cost and Manufacturing Complexity	 High cost of genetic modification and selection Requirement for hospitalization and use of tocilizumab for treatment

Marker – Non-engineered, Multi Tumor Associated Antigen T cells

Marker has strong clinical data and potentially addresses limitations of other cell therapies

- Complete response rates similar to CAR-T results
- Unlike CAR-T, the complete response rates have exhibited strong durability
- Tested in over 150 patients across 7 indications in Ph I/II trials at Baylor College of Medicine
- Demonstrated responses with no evidence of CRS, neurotoxicity or DLTs
- Attractive cost of manufacturing
- Initiated the first company-sponsored Phase 2 study in AML with data expected in Q1 2022







Marker Therapeutics Management Team

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President & Chief Executive
Officer

Michael J. Loiacono Chief Accounting Officer





Gerald Garrett
Vice President, Clinical Operations



Mythili Koneru, M.D.,PH.D. Chief Medical Officer

Tsvetelina P. Hoang, Ph.D. Vice President, Research & Development



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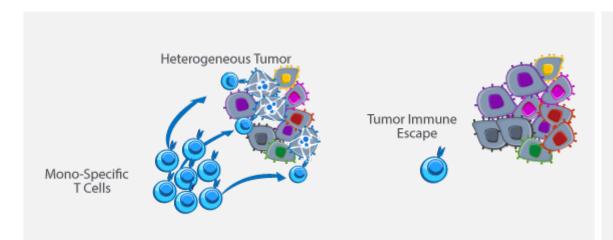
Padmanee Sharma, M.D., Ph.D. Professor, Department of Genitourinary Medical Oncology The University of Texas MD Anderson Cancer Center

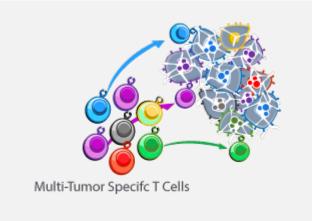


Helen E. Heslop, M.D., D.Sc. (Hon) Director, Center for Cell and Gene Therapy Baylor College of Medicine

About MultiTAA

Unique Benefits of MultiTAA T Cell Therapy





Targeting Multiple Antigens for Improved Outcomes
In contrast to mono-specific T cells, MultiTAA T cells recognize up to 5 antigens for a more potent, durable antitumor response.

Targets Multiple Antigens

Target expression of multiple tumor antigens may enhance tumor destroying capability, bringing about total responses that may be superior to current CAR and TCR therapies

Epitope Spreading

MultiTAA induces patient's own T cells to expand, contributing to a broader, more durable anti-tumor effect

Clinical Safety

No related SAEs or CRS observed in more than 150 patients treated

No Genetic Modification

Natural T cells expand with no mutagenesis risk

Lower Cost

No genetic modification = reduced manufacturing complexity and significant cost reduction compared to current options

Efficient Administration

Administered in an outpatient setting, enabling therapy to be given by a medical professional according to standard IV procedures



Favorable Safety Profile and Administration

Administration & dose

- 10 min infusion at clinic without need for hospitalization or ICU stay
- Administered in various tumor types, typically 20 x 10⁶/m² with 3 infusions over 2-4 week intervals

Safety profile in over 150 patients treated to date

- No dose-limiting toxicities (DLT)
- No cytokine release syndrome (CRS)
- No neurotoxicity
- No Gr3-4 GvHD in post-allogeneic transplant setting

Conclusion: Overall, MultiTAA T cells are easy to administer and have been well tolerated in clinical trials to date

MultiTAA Platform Leading with AML

BCM studies demonstrate potential of MultiTAA T cell therapy

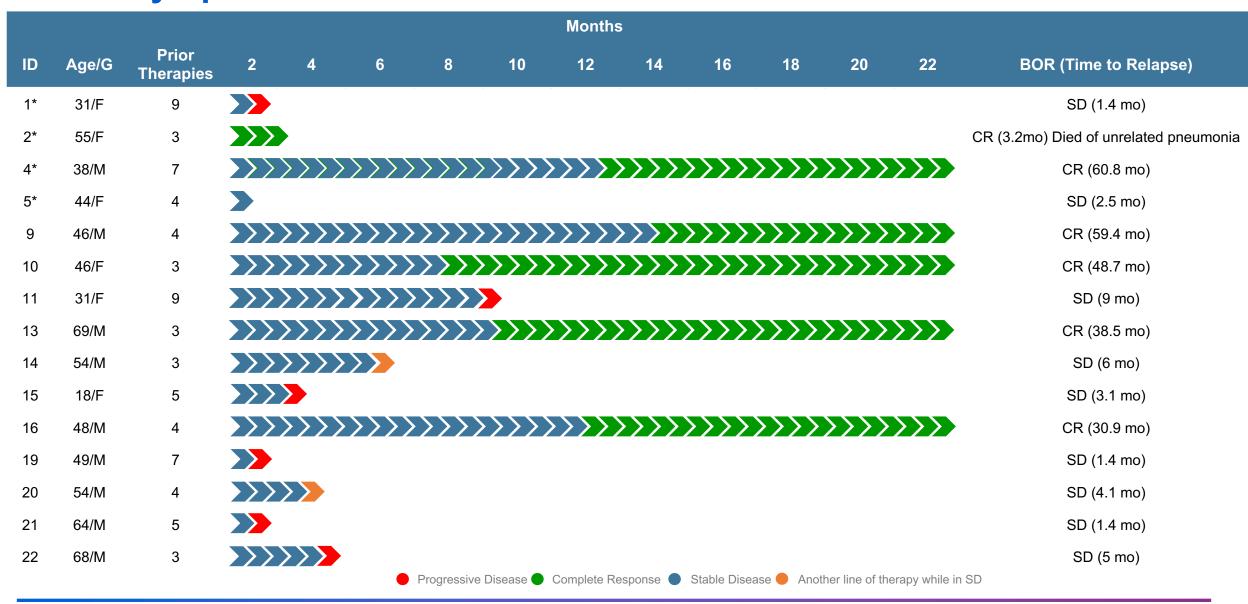
PRECLINICAL PHASE I & PHASE I/II PHASE II **PHASE III MARKER** Acute Myeloid Leukemia **Therapeutics Breast Cancer** Acute Lymphoblastic Leukemia Acute Myeloid Leukemia Lymphoma Baylor College of Medicine Multiple Myeloma Pancreatic Cancer Sarcoma

Leveraging the Accomplishments at Baylor and Advancing our Programs at Marker

Where We've Been	Where We're Going
 Technology founded at the Baylor College of Medicine in 2012 	 Clinical landscape in Lymphoma program is complicated due to approved CD-19 CARs
 Seven Phase I/II clinical trials: AML, Lymphoma, ALL, Multiple Myeloma Pancreas, Breast, Sarcomas 	However, lymphoma and pancreatic cancer clinical data show proof of concept and demonstrates the potential of our technology
 Largest data set in Lymphoma with response rates similar to CAR-T programs but with improved safety and durability 	 Addressing critical unmet need and advancing Marker-sponsored Phase 2 clinical trial in post- transplant AML Post transplant AML is challenging for CAR-T
 Strong response rates in post-transplant AML with high unmet medical need 	programs due to antigen signature on normal cells
 Pancreatic cancer study shows proof of concept in a solid tumor and combinability with other toxic regimens 	Phase 2 manufacturing at Marker facility

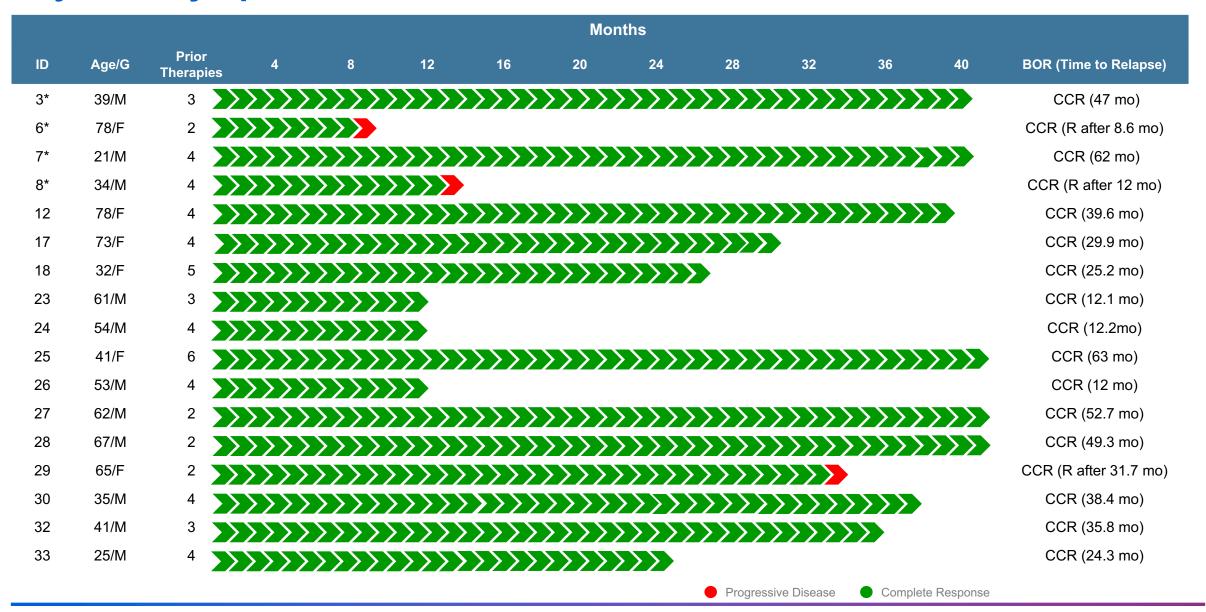
MultiTAA in Blood Cancers

Active Lymphoma Clinical Trial Outcomes



MARKER
Therapeutics

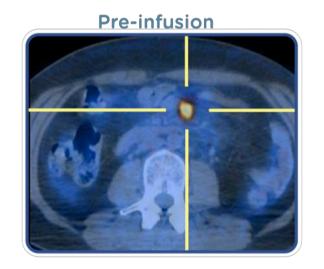
Adjuvant Lymphoma Clinical Trial Outcomes



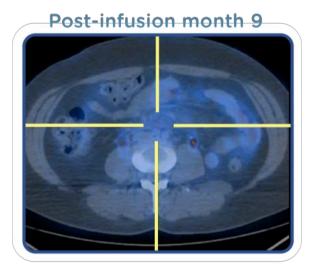


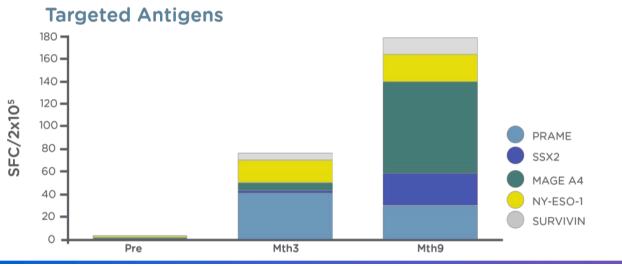
Case Study: Response in Lymphoma Trial of Patient 10

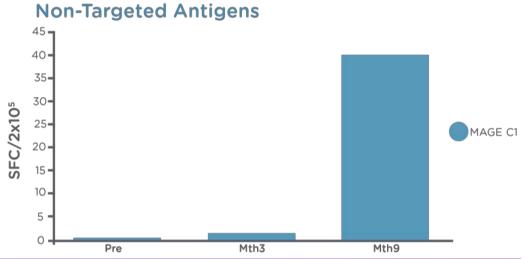
Marker T cell expansion changes over time to match antigen expression on tumor











AML Unmet Medical Need

Acute myeloid leukemia (AML) is the **most common acute leukemia in adults** and progresses rapidly without treatment. It can spread from the blood to the **lymph nodes**, **liver**, **spleen**, **brain and spinal cord**.

Prevalence

In 2016, there were an estimated 61,048 people living with AML in the U.S.

Prognosis

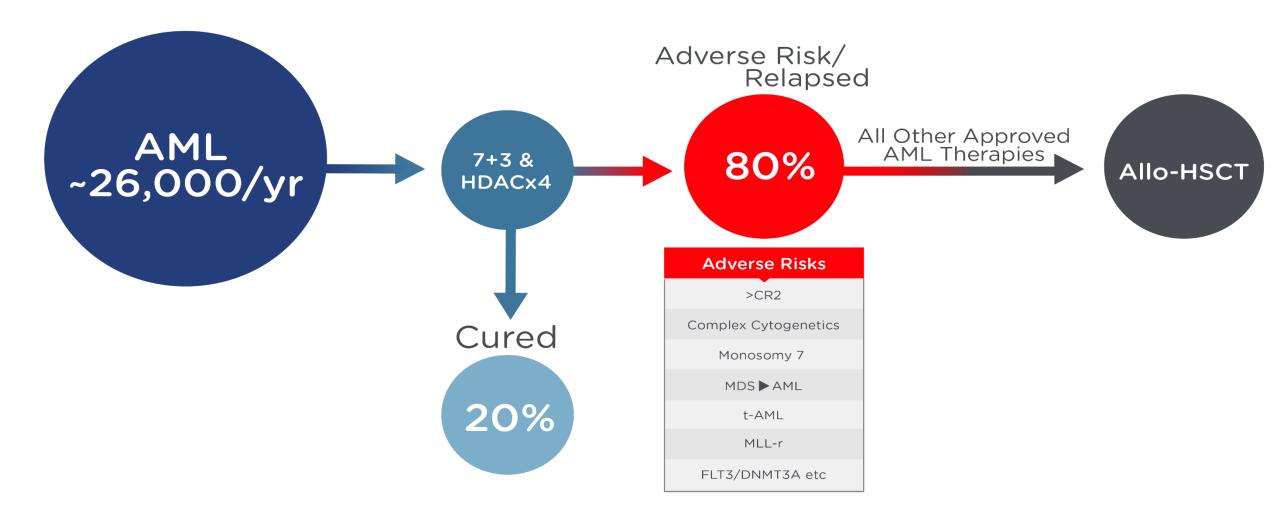
- Estimated new cases in 2019: 21,450
- Estimated deaths in 2019: 10,920
- Percent surviving 5-years (total): 28.3%
- High risk of relapse (80%) necessitating need for improved treatments

Treatment

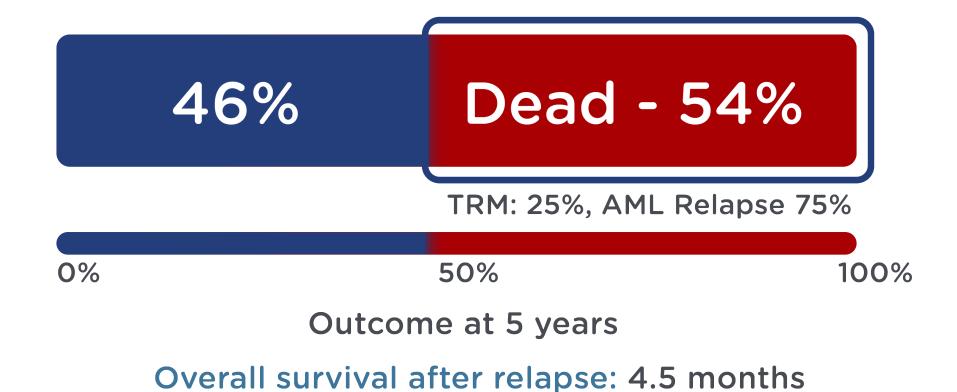
- Current treatment for AML is chemotherapy, sometimes in combination with a bone marrow transplant
- Both treatments carry risk of bleeding, life-threatening infections and permanent infertility
- Bone marrow transplants also carry risk of graft-versus-host disease (GvHD)



Therapeutic Pathway for an AML Patient



Outcomes of AML/MDS Patients Post Allo-HSCT



Marker Lead Clinical Trial: Post-Transplant AML

Positive Phase 1 Data

- Anti-tumor effect, as well as significant in vivo expansion of T cells
- Well-tolerated, with no incidence of cytokine release syndrome, neurotoxicity or Gr3-4 GvHD

Unmet Need for Effective Therapies in Post-transplant Setting

- Competitors are pursuing specific targets (i.e. CD123), with limited improvements in patient outcomes either pretransplant or bridge to transplant
- A multi-antigen approach can potentially induce the patient's own T cells to expand and contribute to a lasting antitumor effect. MultiTAA is designed target multiple potential epitopes of up to five tumor-associated antigens in order to deal with tumor heterogeneity and ultimately leading to epitope spreading

Phase 1 AML/MDS Results:

Group A: Adjuvant

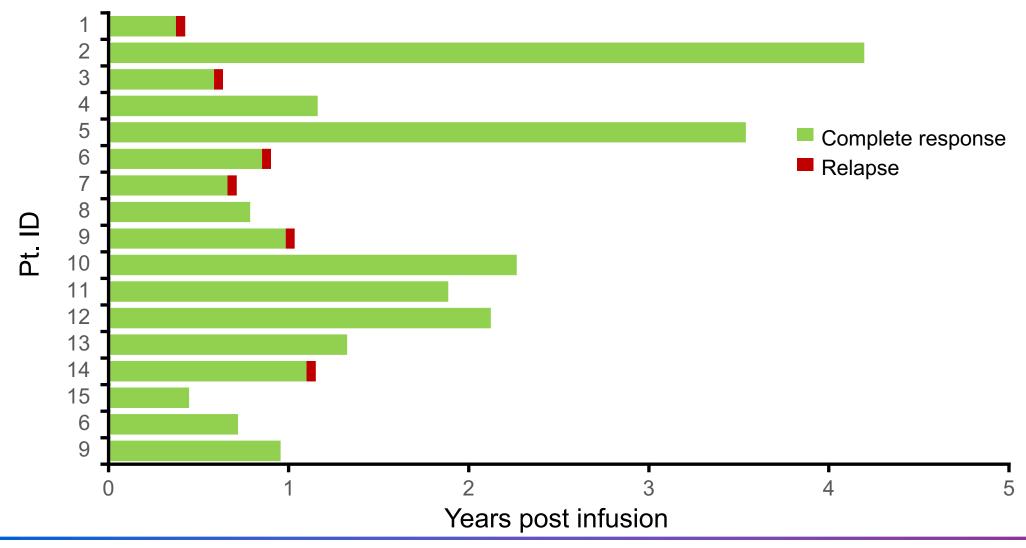
- 17 patients (12 post-HSCT, 5 received salvage post-HSCT)
 - 11/17 in continued CR (median leukemia-free survival not reached at a median follow-up of 1.9 years)

Group B: Active disease

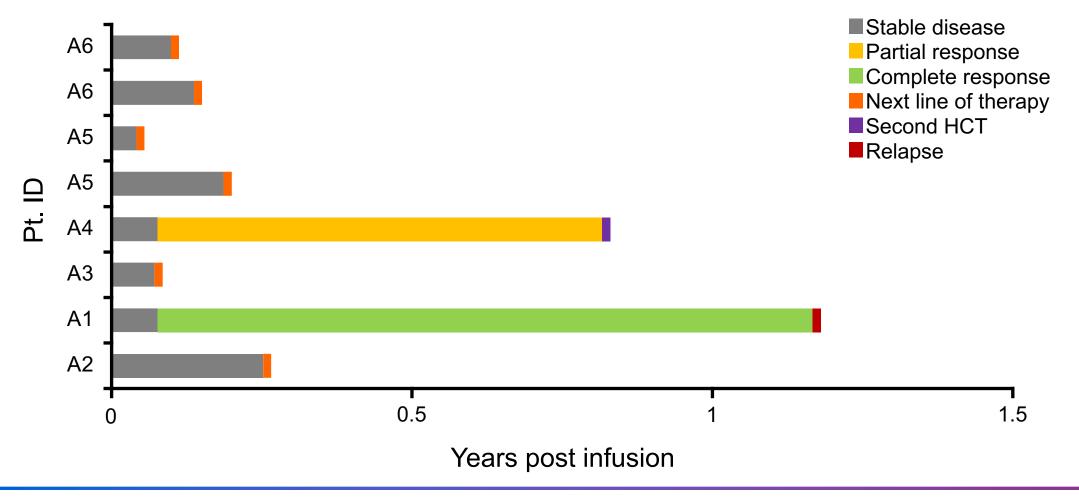
- 8 patients (one patient treated twice)
 - 1 CR durable for 13 months
 - 1 PR
 - 6 SD



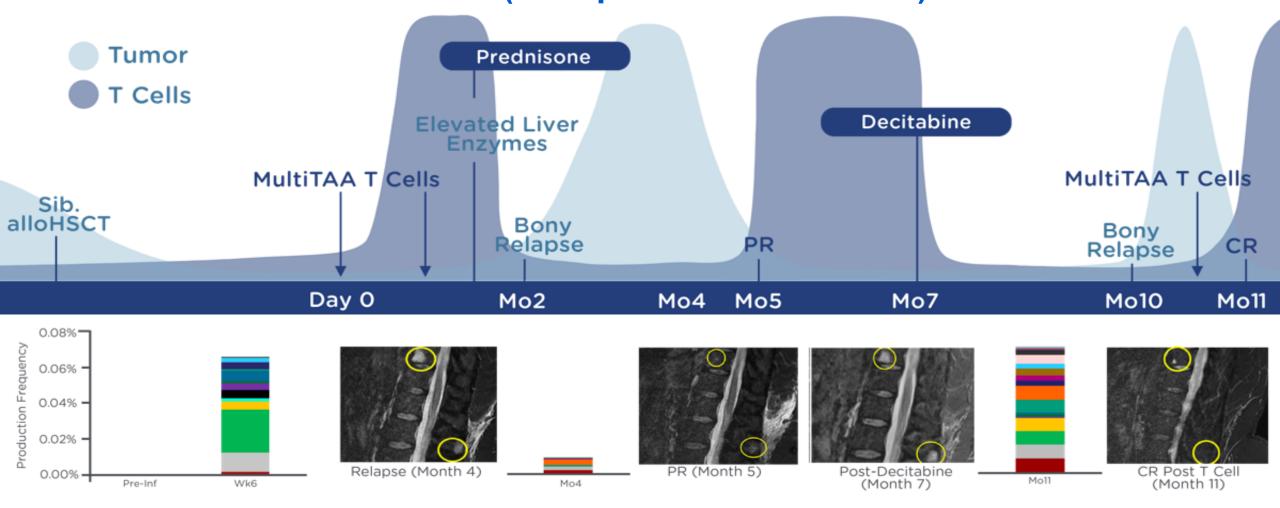
Adjuvant AML / MDS Clinical Trial Outcomes



Active AML / MDS Clinical Trial Outcomes

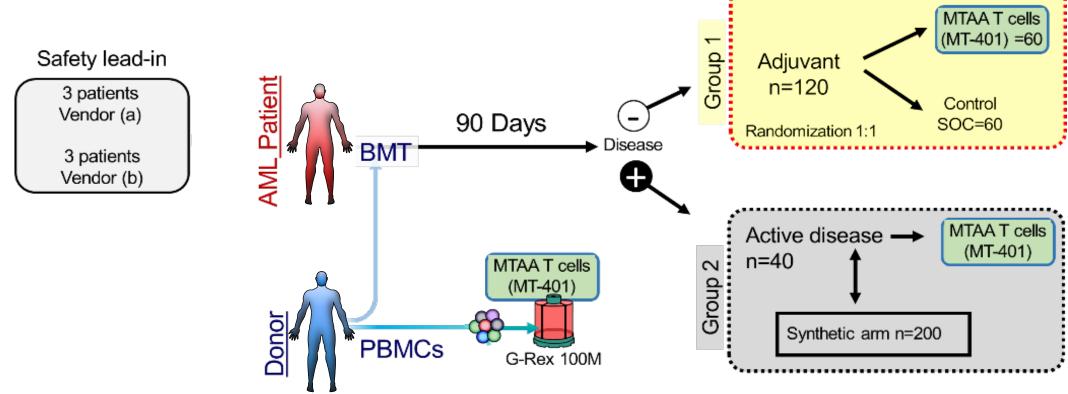


Clinical Course of Patient 1 (Group B: Active Disease)



57-year-old female with AML post multiple courses of chemoRx and allo-HSCT. First Rx with MultiTAA T cells during remission. Elevated AST was Rx'd with prednisone, causing relapse that resolved once prednisone was DC'd. Rx with decitabine led to a relapse. Rx with MultiTAA T cells led to a CR.

Phase 2 Study Design for AML with Safety Lead-in



Primary objectives are to evaluate:

- Relapse-free survival (RFS) (Group 1)
- Complete remission (CR), duration of CR (DOCR) (Group 2)

Main entry criteria:

- Patients with AML after allogeneic HSCT (HLA-matched related donor, matched unrelated donor, or haploidentical)
- Karnofsky/Lansky score of ≥ 60
- Age ≥ 18
- Life expectancy ≥ 8 weeks
- Adequate organ function



Pancreatic Cancer – Difficult to Treat

Pancreatic cancer is the seventh leading cause of global cancer deaths and the third leading cause of cancer death in the U.S.

Prevalence

- In 2017, there were an estimated 78,969 people living with pancreatic cancer in the U.S.
- Estimated new cases in 2020: 57,600
- Estimated deaths in 2020: 47,050

Survival Rates

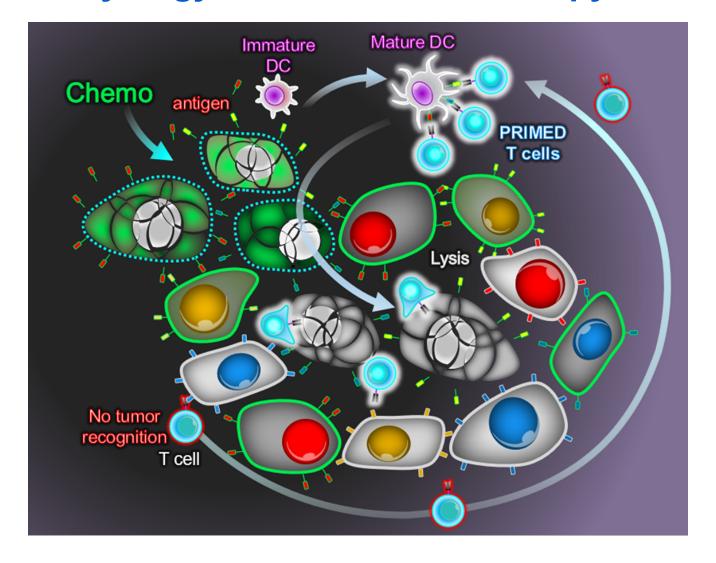
- Local (pancreas): Accounts for 10% of cases; 5-year survival rate is 37%
- Regional (lymph nodes): 29% of cases; 5-year survival rate is 12%
- Distant (Stage IV or metastatic): More than half of all cases (53%) are diagnosed at the distant stage; 5-year survival rate is 3%
- Overall 5-year survival rate = 10%

Combination Treatment

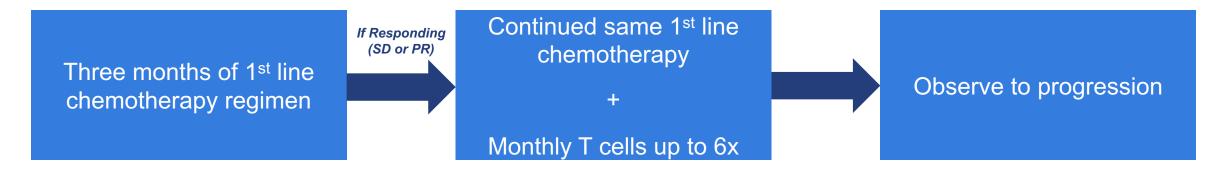
- SOC for front-line unresectable pancreatic cancer: Chemotherapy (FOLFIRINOX or Gemcitabine/nab-paclitaxel)
- Less than 20% of patients are candidates for surgery (resectable) because cancer has usually spread by the time of diagnosis
- FOLFIRINOX: Median PFS = **6.4 months**; Gemcitabine/nab-paclitaxel: Median PFS = **5.3 months**



Pancreatic Cancer: Synergy Between Chemotherapy and MultiTAA T Cells



Pancreatic Phase 1/2 Trial Results

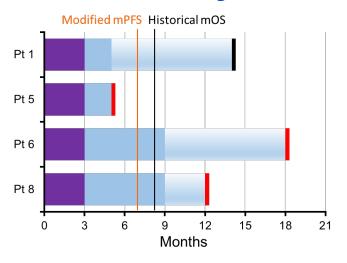


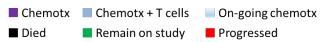
Front Line, Active Disease Highlights: 13 Evaluable Patients

- All patients had stable disease after receiving chemotherapy alone
- 4 confirmed objective responses (OR):
 - 1 complete response (CR) and 3 partial responses (PR) after receiving MultiTAA cells
- 6 stable disease (SD):
 - Notably, 2 patients within stable disease boundaries (+20%/-30%) saw reversal of tumor growth—tumors
 previously growing after chemotherapy alone showed shrinkage following administration of MultiTAA cells
- 1 mixed response:
 - Some lesions increased and others decreased for a net zero change in size of tumor lesions
- Aggregate tumor volume shrinkage observed and 9 out of 13 patients exceeded historical control of overall survival

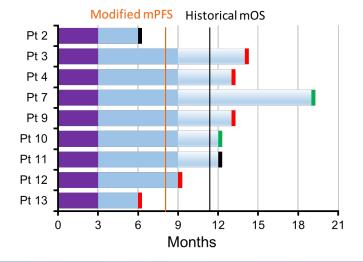
MultiTAA T Cells + Chemo Summary

gemcitabine + nabpaclitaxel



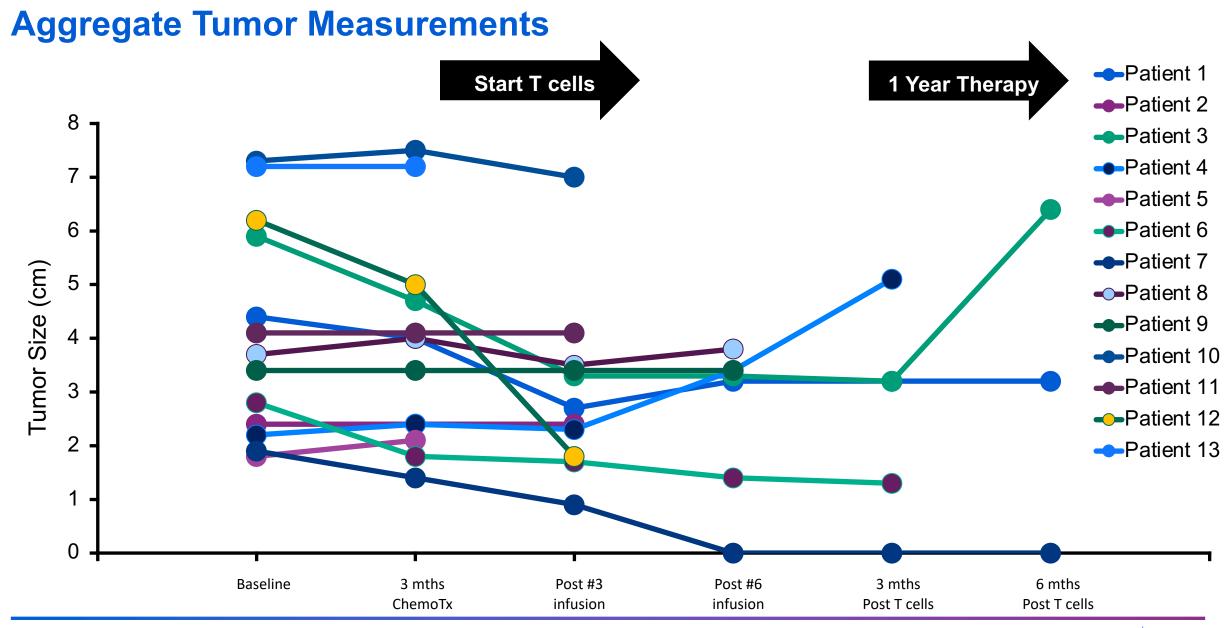






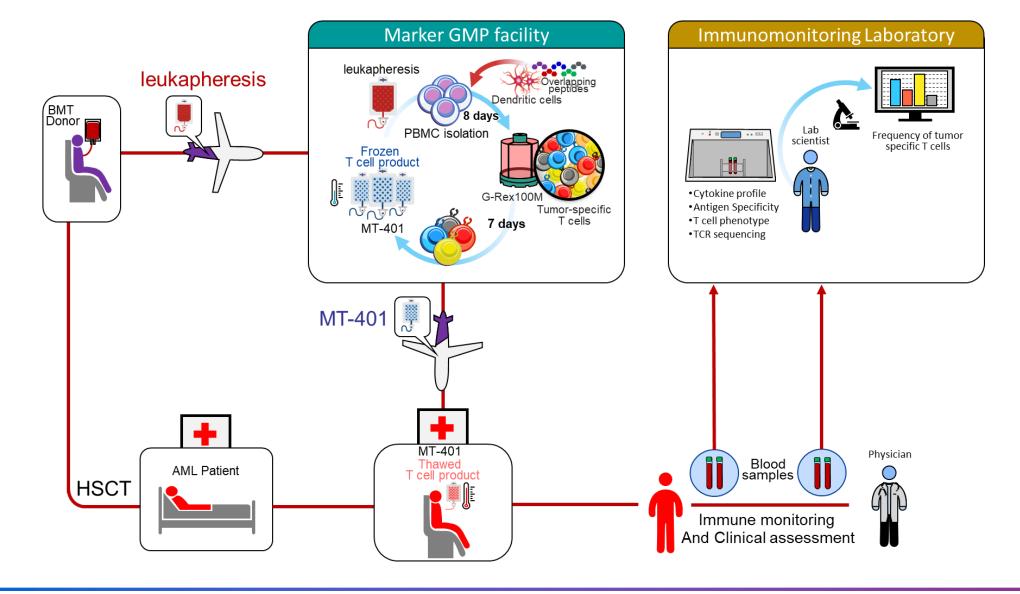
Patient	Best RECIST response on T cell therapy
1	Partial Response
5	Progressive Disease
6	Stable Disease
8	Stable Disease

Patient	Best RECIST response on T cell therapy
2	Mixed response
3	Partial Response
4	Stable Disease
7	Radiographic Complete Response
9	Stable Disease
10	Stable Disease
11	Stable Disease
12	Partial Response
13	Progressive Disease

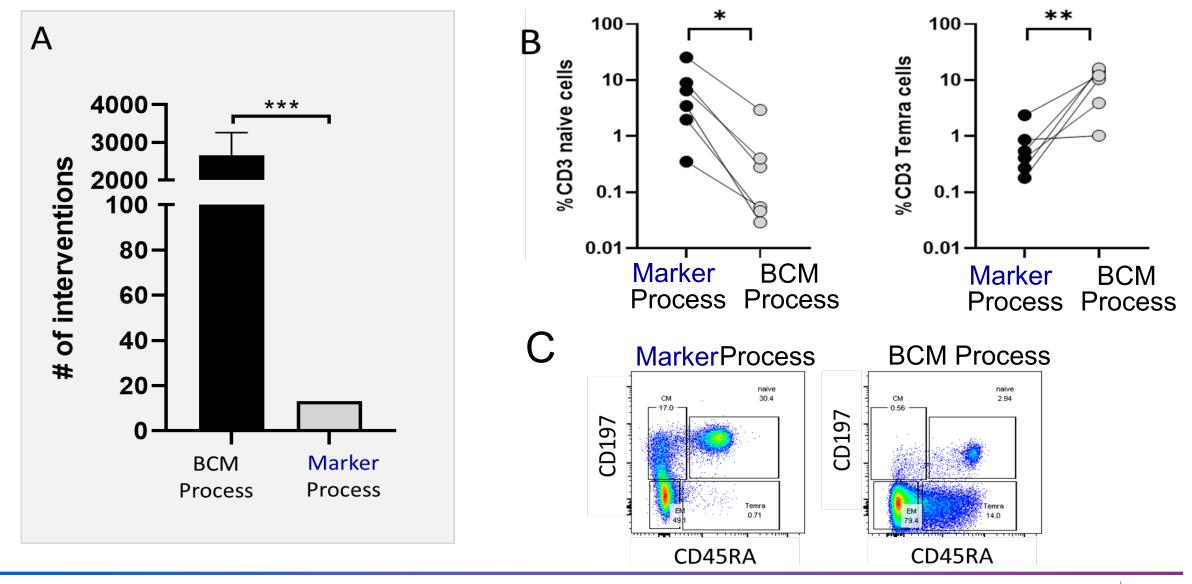




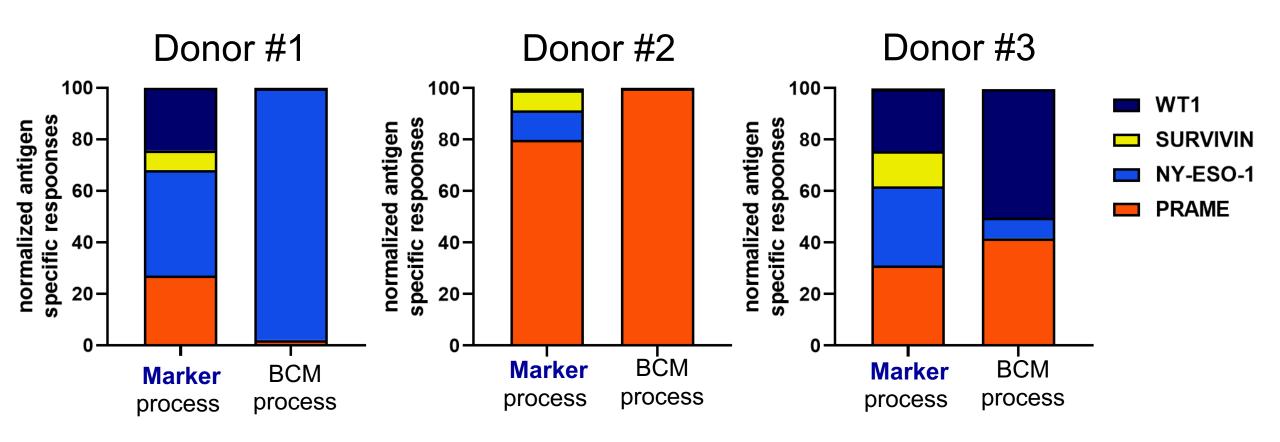
Introduction to MT-401



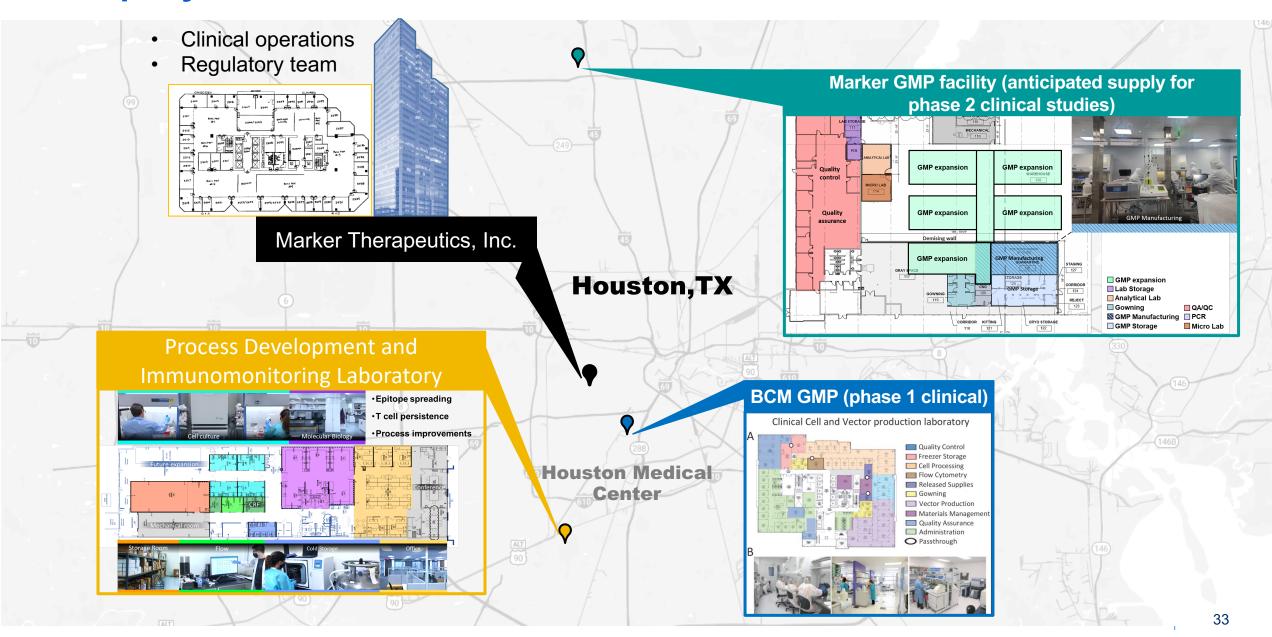
Simplified manufacture process yield T cells with better phenotype



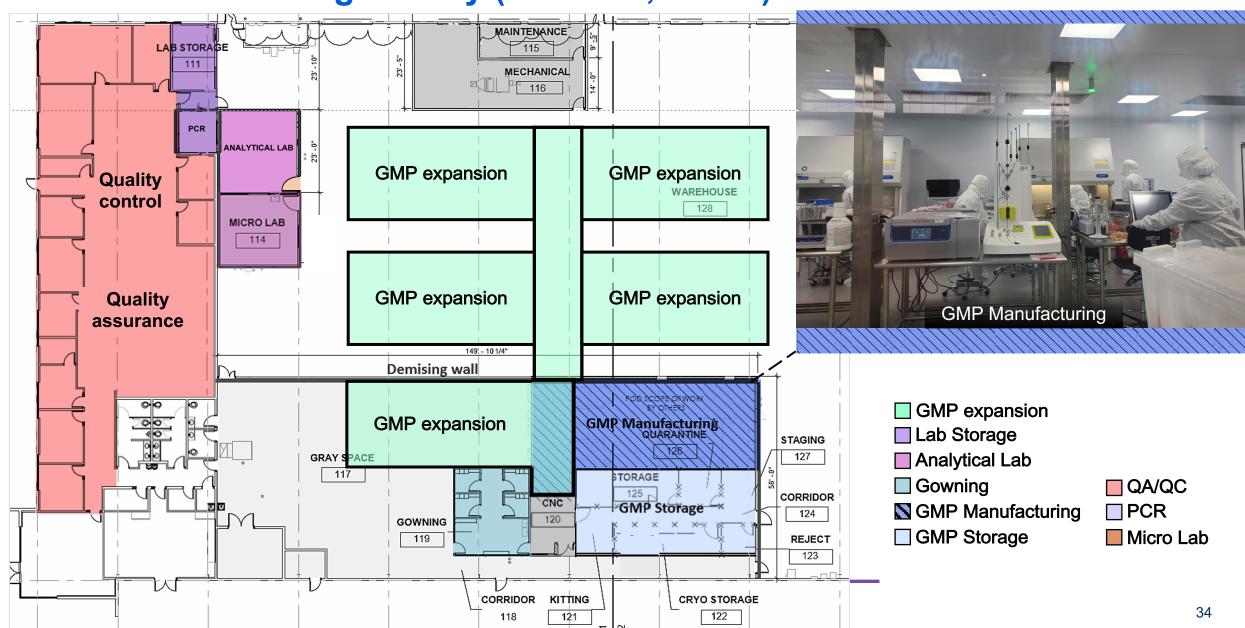
Simplified manufacture process yield T cells with better target recognition



Company Infrastructure



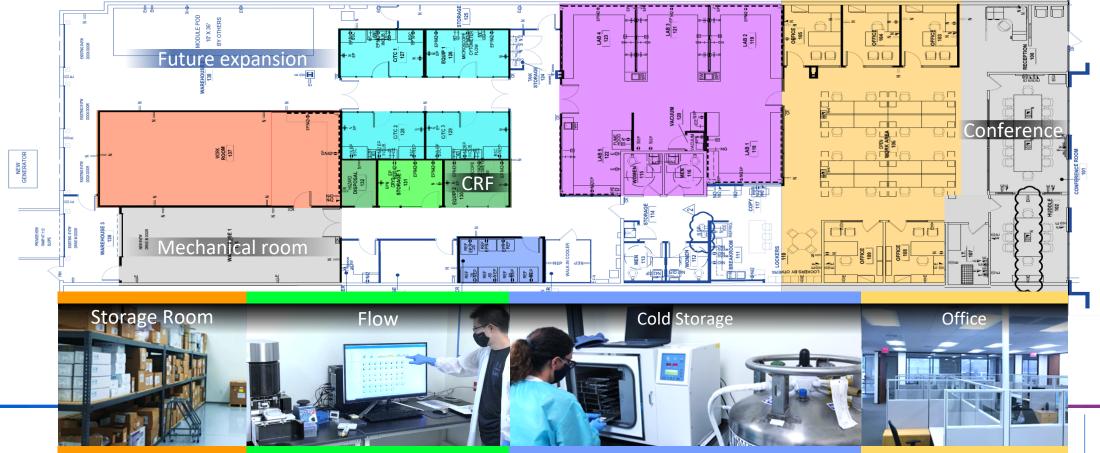
GMP Manufacturing Facility (Houston, Texas)



Process Development & Immunomonitoring Laboratory



- Epitope spreading
- T cell persistence
- Process improvements



Upcoming Milestones

AML trial clinical milestones

- Treat first patient in the AML trial with MT-401 in Q1 2021
- Complete safety lead-in (6 patients) in Q2 2021
- Initiate main portion of phase 2 trial in Q3 2021
- Complete enrollment of 20 patients in main portion of phase 2 in Q4 2021
- Topline readout of Group 2 (active disease) in Q1 2022

Manufacturing milestones

- Initiate tech transfer from Baylor College of Medicine to Marker cGMP facility in Q1 2021
- Receive regulatory approval for Marker cGMP Q2 2021
- Manufacture MT-401 at Marker cGMP for Phase 2 AML trial Q3 2021

Company Overview

We are advancing novel T cell immunotherapies for the treatment of blood cancers and solid tumors

Multiple Tumor-Associated Antigen (MultiTAA) Therapy

- Lead program uses non-genetically engineered T cells designed to recognize and kill multiple tumor targets for broad anti-cancer activity. Unique potential benefits include:
 - Easier, less expensive manufacturing and administration
 - Reduced toxicities over current engineered CAR-T and T cell receptor-based therapies
 - Improved clinical response over other cell therapies
- Positive results shown across various liquid and solid tumors support the rationale for post-transplant acute myeloid leukemia (AML) as first indication:
 - Well-tolerated in Phase 1 trial, with no drug-related serious adverse events
 - Company-sponsored Phase 2 study initiated in 2020

