

MARKER THERAPEUTICS CORPORATE PRESENTATION

January 2024

Forward Looking Statements

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Marker Therapeutics Overview

Marker is a clinical-stage immuno-oncology company focusing on developing next-generation T cellbased immunotherapies for the treatment of hematological malignancies and solid tumor indications

- Multi targeted T cell therapy
- Does not require genetic engineering
- Non-clinical proof-of-concept data

- Clinical data in >200 patients across 7 indications
 - in Phase 1/2 trials

Key Advantages of Marker's multiTAA Therapy



Marker multiTAA targeted therapies

Targeting Multiple Antigens for Improved Outcomes

In contrast to mono-specific T cells, multiTAA–specific T cells recognize up to 6 antigens for a more potent, durable anti-tumor response.



Simple Manufacturing Process



A single G-Rex device can produce enough product for up to 3 infusions (complete course for 1 patient)



Marker's multiTAA-Specific T Cell Pipeline

HEMATOLOGIC MALIGNANCIES



SOLID TUMORS

INDICATION	PRECLINICAL	IND	PHASE 1	PHASE
PC ⁽²⁾ Patient-specific	MT-601			



Marker's multiTAA-Specific T Cell Pipeline

HEMATOLOGIC MALIGNANCIES

INDICATION	PRECLINICAL	IND	PHASE 1	PHASE 2
Lymphoma Patient-specific	MT-601			



Durability of Response of multiTAA-Specific T Cells vs. CAR T Cells in Lymphoma

Durability of Response multiTAA-specific Ts (6 years) vs CAR Ts (15 months)

Potent and Specific

multiTAA have shown potent and specific anti-tumor activity



CD19 CAR T cell-treated patients relapse by month 15





HL: Hodgkin's Lymphoma; NHL: Non-Hodgkin's Lymphoma



Lymphoma Cells Become Resistant to CD19 CAR T Cells



- Hodgkin's lymphoma cell line engineered to overexpress CD19.
- Lymphoma cells relapse 3 weeks after initial anti-CD19 CAR T cell treatment.



CD19 Antigen Escape Results in CAR Resistant Lymphoma Cells



CD19-negative lymphoma cell outgrowth

- Hodgkin's lymphoma cell line engineered to overexpress CD19.
- Lymphoma cells relapse 3 weeks after initial anti-CD19 CAR T cell treatment.
- Resistant lymphoma cells are negative for CD19.



Antigen-Negative Lymphoma Cells are CD19 CAR Refractory





MT-601 Demonstrates Anti-Tumor Activity in CAR Refractory Lymphoma Cells



Broad antigen targeting of MT-601 resulted in killing of CD19 CAR T refractory lymphoma cells



First Study Participant Treated with MT-601 in Phase 1 APOLLO Trial

Demographics

- 57-year-old female
- Diagnosed with DLBCL⁽¹⁾

Clinical History

- 4 Prior treatment lines, including CD19 CAR T cells
- Relapse within 90 days after CD19 CAR T cell therapy
- Subsequent treatment with 2 doses of MT-601 (200x10⁶ cell dose)

Complete Response in Lymphoma Patient Treated with MT-601 after CAR T Relapse

MT-601 Clinical Safety

- MT-601 treatment was well tolerated
- No > Grade 1 treatment-related adverse events

Clinical Response

- Study participant achieved complete metabolic response 8 weeks after 2nd infusion of MT-601
- Patient remains in complete response 6 months after MT-601 treatment



Clinical Investigation of MT-601 in Marker's APOLLO Trial

APOLLO Trial	Investigate MT-601 in a Phase 1, multicenter, open-label study
Study Participants	Lymphoma patients who relapsed after or are ineligible for anti-CD19 CAR T cell therapy
Primary Objective	Evaluate safety and efficacy of MT-601 in study participants with various lymphoma subtypes
Clinical Sites	9 clinical sites across the United States will cumulatively enroll up to approx. 30 participants during Dose Escalation phase



Future Developments

Marker's multiTAA-Specific T Cell Pipeline

HEMATOLOGIC MALIGNANCIES

INDICATION	PRECLINICAL	IND	PHASE 1	PHASE 2
AML ⁽¹⁾ Off-the-Shelf (OTS)	MT-401-OTS			



Off-the-Shelf (OTS) Production and Treatment Strategy





Marker's multiTAA-Specific T Cell Pipeline

HEMATOLOGIC MALIGNANCIES



SOLID TUMORS

INDICATION	PRECLINICAL	IND	PHASE 1	PHASE 2
PC ⁽²⁾ Patient-specific	MT-601			



MultiTAA-specific T cells Demonstrated Benefit to SOC Chemotherapy in Patients with Pancreatic Cancer





* Combination therapy demonstrates responses beyond historical survival points (orange & blue lines).





Patient 3 Pre-infusion



2 months post multiTAAs



>30% reduction of index lesion

6 months post multiTAAs



>40% reduction of index lesion



Corporate & Financial Highlights

- Demonstrated clinical response in hematological malignancies and solid tumors
- \checkmark Favorable safety profile in clinical trials to date
- ✓ 3 FDA-approved INDs
- ✓ Awarded over \$17 million non-dilutive funding through grants
- ✓ Cash & Cash Equivalents of \$17.5 million⁽¹⁾
- ✓ Current cash runway expected through Q4 2025



THANK YOU

