

Forward-Looking Statements



This presentation contains forward-looking statements that involve substantial risks and uncertainties. All statements other than statements of historical facts are forward-looking statements. In some cases, you can identify forward-looking statements by terms such as: "will," "potential," "could," "can," "believe," "intends," "continue," "plans," "expects," "anticipates," "estimates," "may," or the negative of these terms or other comparable terminology. These forward-looking statements include, but are not limited to, statements regarding: Kiromic's ability to achieve its objectives and Kiromic's financing strategy and availability of funds. These forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause actual results, levels of activity, performance, or achievements to be materially different from the information expressed or implied expressed or implied by these forward-looking statements. These risks and uncertainties include, but are not limited to, the risks and uncertainties discussed in our Annual Report on Form 10-K for the year ended December 31, 2023, and as detailed from time to time in our other SEC filings. You should not rely upon forward-looking statements as predictions of future events. Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee that the future results, levels of activity, performance, or events and circumstances reflected in the forward-looking statements will be achieved or occur. Moreover, neither we nor any other person assumes responsibility for the accuracy and completeness of the forward-looking statements. Such forward-looking statements relate only to events as of the date of this presentation. We undertake no obligation to update any forward-looking statements except to the extent required by law.



Contents

- The Kiromic Difference and Market Opportunity
- Diamond AI[™] (Artificial Intelligence)
- Gamma Delta T-cell (GDT) Therapy:
 Mechanism of Action (MOA), Product Pipeline, cGMP Manufacturing
- Current Status and Path Forward

The Kiromic Difference





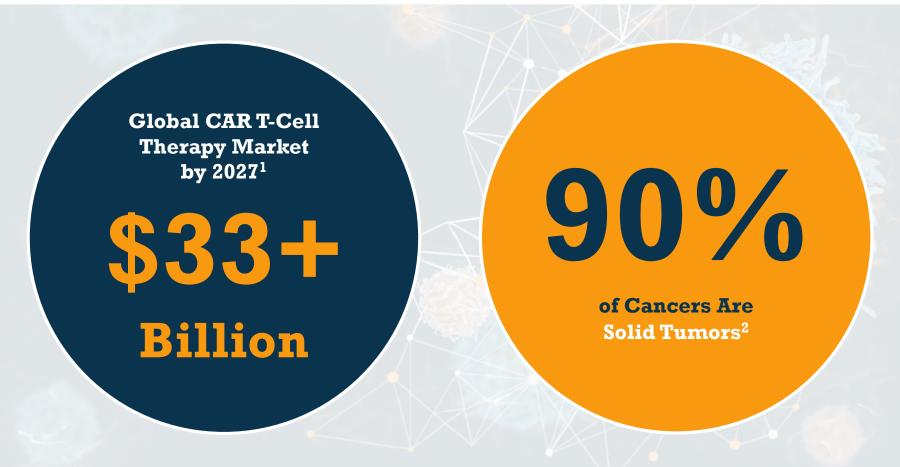
Competitive Landscape

8 Known Companies Working in the Gamma Delta T-Cell Therapy Space.

No Known Competitors with AI-driven Technology Combined with a Gamma Delta CAR-T Delivery Platform. KIR MIC

Solid Malignancy Market Opportunity





¹ Global CAR T-Cell Therapy Market, By Product Type, By Tumor Type, By Indication, By Treatment Type, By Targeted Antigen, By End User, By Region, Competition, Forecast and Opportunities, 2017-2027 (ReportLinker)

² American Cancer Society, Cancer Facts & Figures, 2022. https://www.cancer.org/research/cancer-facts-statistics.html

Competitive Difference

Allogeneic Gamma Delta Based T-Cell Therapies

Superior Specificity for Multiple Solid Tumors

- Potential broad treatment for solid malignancies that express Kiromic-developed biomarkers such as Iso-mesothelin.
- Solid tumors represent ~90% of new cancer diagnoses but finding specific targets to treat them has been challenging.
- Kiromic tackles the issue by identifying new cancer-specific targets.



- In-house cGMP manufacturing
- In-house OC/EM lab
- In-house product and process development (R&D and MSAT)

Superior Efficacy from γδT Cells

- Strong efficacy demonstrated in preclinical animal models.
- In solid tumors, the benefit of infiltrating conventional T cells may vary.
- In contrast, GDT cells are the infiltrating immune cells most likely to be associated with positive outcomes, as shown in an analysis of 18,000 tumors from 39 indications l



- Outpatient treatment means reduced hospitalization and other treatment-related costs.
- Lower projected cost increases patient and health care professional access to these therapies, and potentially provides important quality-of-life benefits for patients as well.

- Gentles AJ, Newman AM, Liu CL, et al. The prognostic landscape of genes and infiltrating immune cells across human cancers. Nat Med. 2015 Aug;21(8):938-945.
- 2. Maziarz RT. CAR T-cell therapy total cost can exceed \$1.5M per treatment. Cell Therapy Next; May 29, 2019.

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Artificial Intelligence and Bioinformatic Analytic Discovery & Development Platform

Algorithms and Large-Scale Genomics Analysis for Target Prediction



Discovery

Development

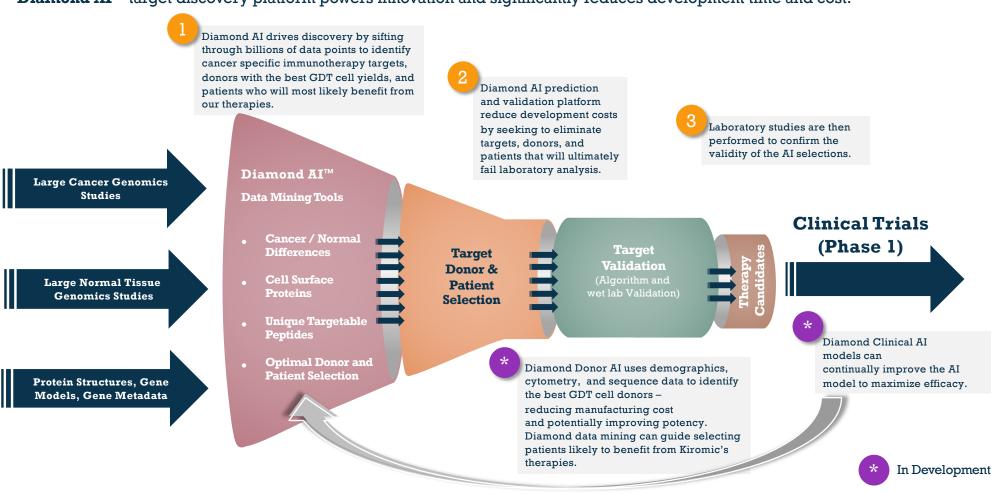
Manufacturing

Clinical Trials

- ✓ AI Integrated with Each Stage of the Kiromic Therapy Production Lifecycle
- ✓ Discovering New Multi-tumor Targets
- ✓ Identifying Optimal Donors and Patients to Maximize the Therapy Success

The Kiromic Difference - Diamond AI™ Target Discovery Platform

Diamond AI™ target discovery platform powers innovation and significantly reduces development time and cost.





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Kiromic GDT Cell Therapy Pipeline

Multiple Indications



Unmodified, offthe-shelf product candidate targeting stress ligands on cancer cells

Initial indication:

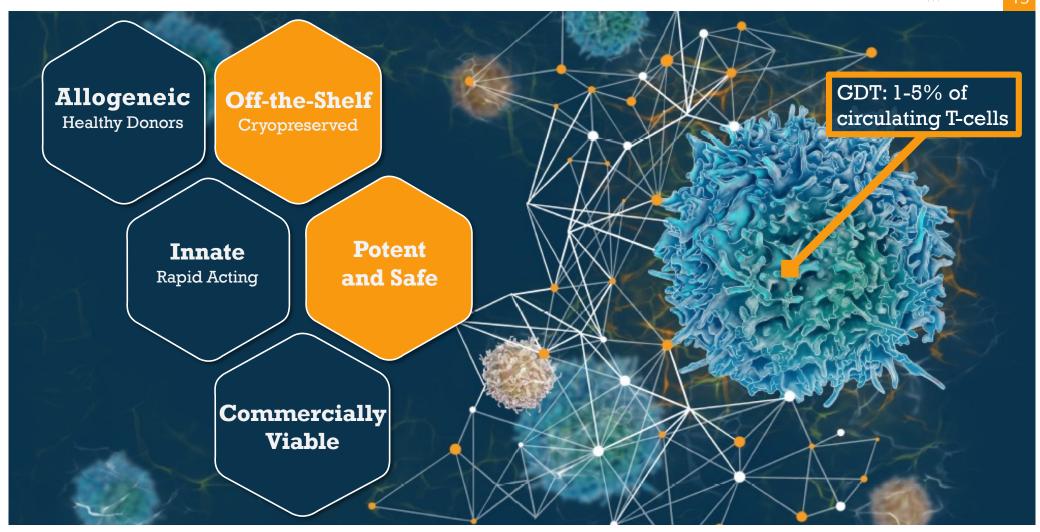
NSCLC in combination with targeted, low-dose radiation Isocel™

Engineered offthe-shelf product candidate targeting a tumorspecific variant of mesothelin in ovarian cancer, mesothelioma and pancreatic cancer Procel™

Engineered offthe-shelf product candidate targeting PDL-1+ tumors

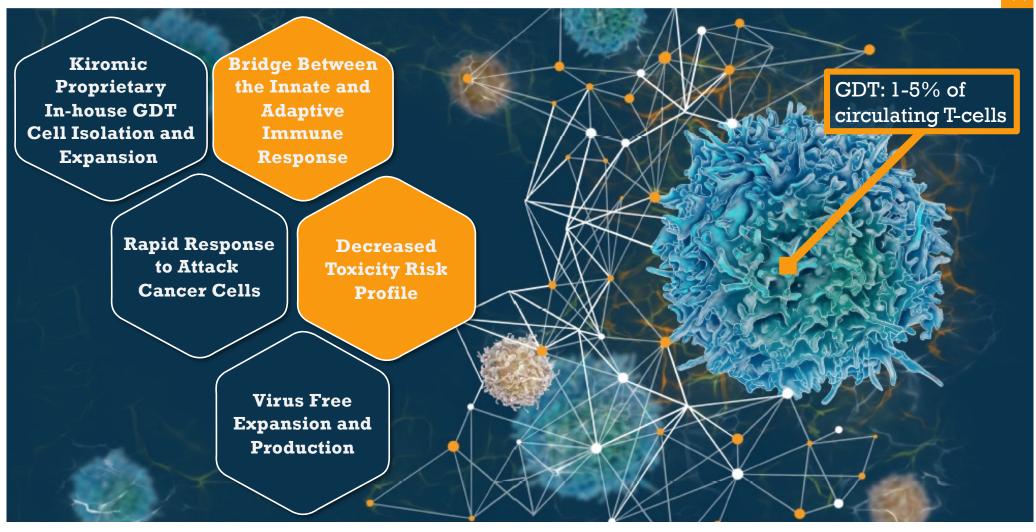
Gamma Delta T-Cells: Guardians of the Immune System





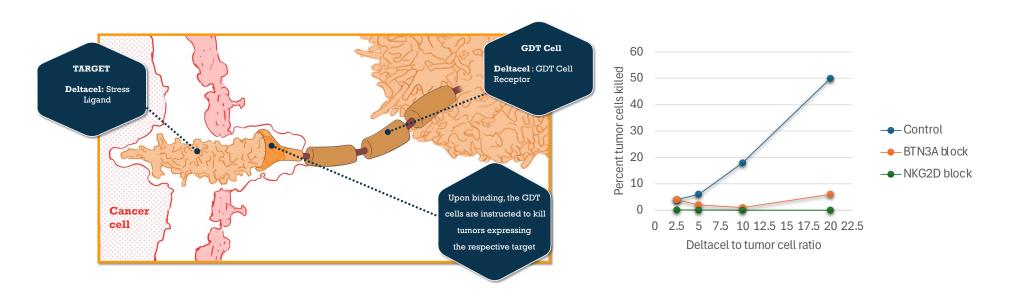
Deltacel: Non-Viral Gamma Delta T-Cell Development







GDT Cell Therapy Mechanism of Action: Targeting Unique Identifiers on Tumor Tissues

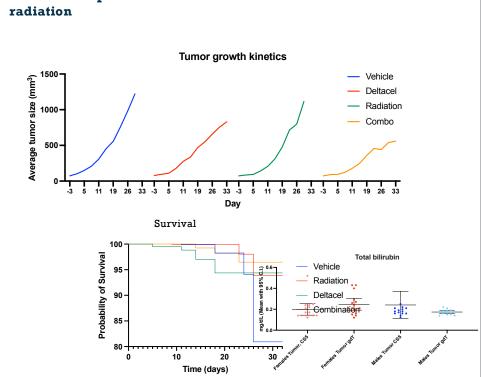




KB-GDT-01 T-Cell Therapy

(Deltacel) Strong Efficacy

Deltacel™ effectively controls established A549 NSCLC tumors in immunocompromised mice when combined with a low-dose radiation

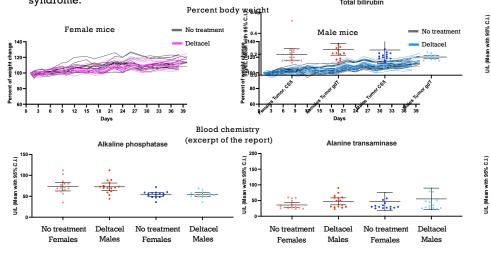


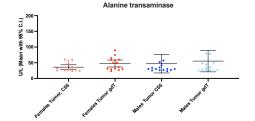
KB-GDT-01 T-Cell Therapy

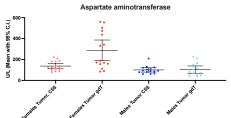
(Deltacel) Strong Safety

Deltacel $^{\text{\tiny{IM}}}$ does not cause any macroscopic or microscopic toxicity, even when given at over 8x the maximum dose that will be tested in the clinical trial

- Deltacel did not impact body weights, food consumption, or macroscopic evaluations at necropsy.
- 2. Microscopic histopathological evaluations showed no evidence of toxicity.
- 3. Blood chemistry tests showed no impact on organ functions.
- Plasma cytokine analysis showed that Deltacel administration did not result in the overproduction of inflammatory cytokines, commonly associated to cytokine release syndrome.



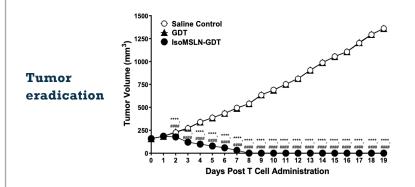






GDT CAR T-Cell Therapy (Isocel)* Strong Efficacy

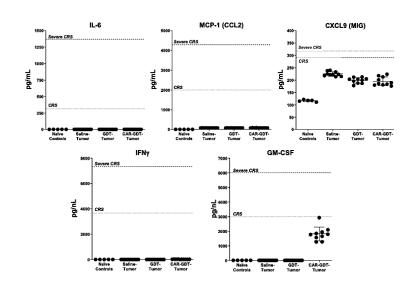
Isocel eradicates established NCI-H226 pleural epithelioid mesothelioma and prevents tumor growth in a model of recurrence.



GDT CAR T-Cell Therapy

(Isocel)* Strong Safety

Isocel does not lead to cytokine level increases modeled to cause severe CRS or CRS, with circulating cell numbers regulated by objective response.



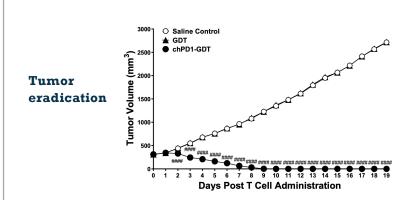
^{*}Preclinical models: nude mice with subcutaneous NCI-H226 cells injections



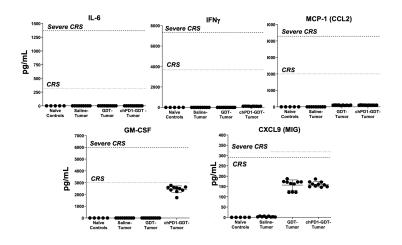
GDT chPD1 T-Cell Therapy (Procel)* Strong Efficacy

GDT chPD1 T-Cell Therapy (Procel)* Strong Safety

Procel eradicates established NCI-H226 pleural epithelioid mesothelioma and extends survival.

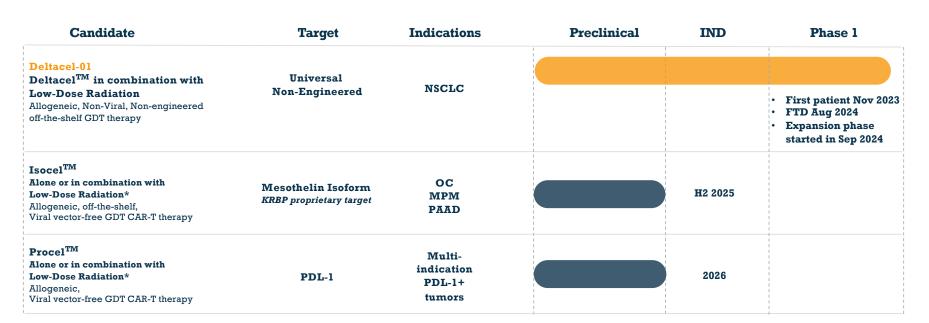


Procel does not lead to cytokine level increases modeled to cause severe CRS or CRS, with circulating cell numbers regulated by objective response.



^{*}Preclinical models: nude mice with subcutaneous NCI-H226 cells injections





Subject to obtaining sufficient financing to support the progression of the development of our clinical trial candidates.

*This program may result in two clinical trials, one with and one without low-dose radiation, depending on the pre-clinical evidence.

In-House cGMP Manufacturing Creates De-Risked Value







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Deltacel-01 Phase 1 Clinical Trial Design



GDT cells for Stage 4 Metastatic Non-Small Cell Lung Cancer (NSCLC) given in combination with low-dose radiation therapy

Key Highlights

Allogeneic and scalable: Designed for easy manufacturing and delivery without the need for patient-specific customization.

Validated by clinical outcomes: Tumor reduction and disease stabilization demonstrated in multiple patients.

Addressing unmet needs: Focused on advanced NSCLC patients who have exhausted standard therapies

Key outcomes:

- ✓ 27% tumor reduction at 11-month follow-up for Patient 1 with durable progression-free survival (PFS) and no adverse events
- ✓ 31.9% tumor reduction at eight months in Patient 4 = Partial Response
- ✓ Median PFS across all patients is 6 months, supporting safety and
 efficacy claims, with a follow-up duration of 10 months across all
 patients, as of December 2024

Patients Treated	DLTs	Optimal Dose	Median PFS	Median Length of FU	Longest PFS	
7	0	Identified as Dose Level 1	6 months	10 months	12 months	

Trial Design

 Kiromic's innovative design consists of IV gdT cell infusions preceded by low-dose, localized radiation that are performed in an in-patient setting without hospitalization

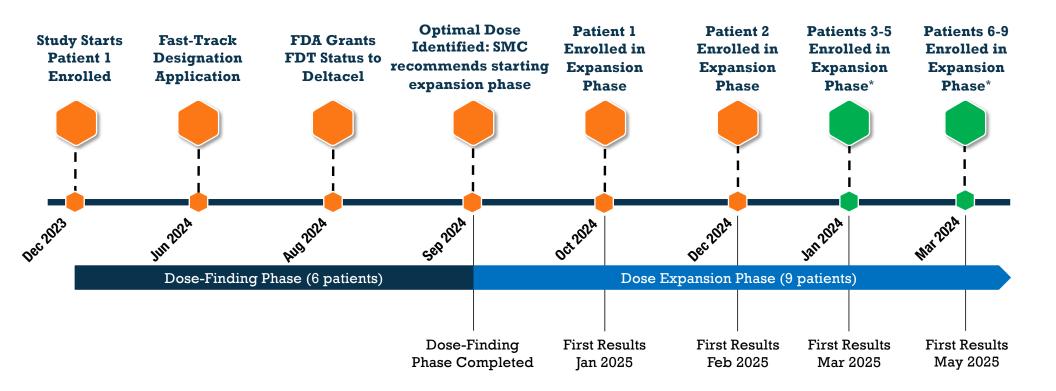
Primary objective:

 Safety of Deltacel in combination with lowdose radiation

Secondary outcome measures:

 Objective response, progression-free survival, overall survival, time to progression, time to treatment response and disease control rates

Recent and Upcoming Milestones



SMC = Safety Monitoring Committee

^{*} The milestones and timing of completion are based on the company's current expectations in consultation with its partners and vendors.

Deltacel-01 Clinical Trial Timeline

			FU v	isit 1	FU v	isit 2	FU v	risit 3	FUv	risit 4	FU v	isit 5	FU v	isit 6	FU vi	sit 7	FU vi	isit 8
Patient	Enrolled	Confirmed tolerability	FU time (months)	Outcome	FU time (months)	Outcome	FU time (months)	Outcome	FU time (months)	Outcome	FU time (months)	Outcome	FU time (months)	Outcome	FU time (months)	Outcome	FU time (months)	Outcome
1	Dec 2023	Yes	1.5	SD	2	-6.6%, SD	4	-7%, SD	6	-13%, SD	8	-20%, SD	10	-27%, SD	11	-27%, SD	12	Expected Dec 2024
2	Jan 2024	Yes	1.5	SD, CR in brain	2	SD, clean brian MRI	4	PD										
3	Feb 2024	Yes	1.5	-6%, SD	2	-6%, SD	4	-3.1%, SD	6	PD								
4	Apr 2024	Yes	1.5	-9.2%, SD	2	-2%, SD	4	-3.6%, SD	6	-5.3%, SD	8	-31.9%, PR	10	Expected Jan 2025				
5	May 2024	Yes	2	PD														
6	Aug 2024	Yes	2	+6%, SD	4	Expected Dec 2024												
7	Oct 2024	Yes	2	Expected Dec 2024														
8	Dec 2024	Expected Jan 2025	2	Expected Feb 2025														

Percents indicate changes in tumor volume with respect to pre-treatment measurements.

SD = Stable Disease

PD = Progression of Disease

PR = Partial Response

CR = Complete response

A patient participates in the trial until disease progression is documented or after completion of the 12-month follow-up visit.



Leadership Team

Pietro Bersani CPA, CGMA

CEO





Deloitte.



Leonardo Mirandola

Ph.D.

CSO/INTERIM COO











Scott

Dahlbeck

M.D., Pharm.D.

COSO













Brian Hungerford CPA,CGMA

CFO

Deloitte.











Board of Directors

Michael Nagel

Chairperson

Pietro Bersani CPA, CGMA

Director

Pam Misajon

Independent Director Michael Catlin

Independent Director



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Deloitte.

















Summary Balance Sheet & Cap Table

KIR	MIC

Balance Sheet Data (As of September 30, 2024)	As Reported (In Thousands)		
Cash and Cash Equivalents	\$3,056		
Working Capital	(\$14,826)		
Total Assets	\$10,245		
Total Stockholders' Deficit	(\$9,288)		

Cap Table (As of September 30, 2024, except as *noted below)	Common Stock Equivalents
Common Stock * As of 12/10/24	1,533,272
Restricted Stock Units (\$3.81 Weighted average grant date fair value)	56,239
Options (\$101.04 Weighted average exercise price)	18,093
Warrants	15,416
Convertible Preferred Share Shares (\$14MM principal & \$6.50 share conversion) (\$16.8MM principal & \$2.50 share conversion) (\$6.0MM principal & \$1.13 share conversion) *Inclusive of \$3.0MM exchange agreement issued on November 1, 2024	16,439,289
Convertible Notes *Inclusive of \$2.0MM note issued on December 9, 2024	8,009,577
Fully Diluted Common Shares	26,071,886

Value Proposition Summary



