#### UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, DC 20549

#### FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): May 21, 2024

#### KIROMIC BIOPHARMA, INC.

(Exact name of registrant as specified in its charter)

Delaware	001-39619	46-4762913
(State or other jurisdiction of incorporation)	(Commission File Nur	nber) (IRS Employer Identification No.)
(A	7707 Fannin, Suite 140 Houston, TX, 77054 ddress of principal executive office	
Registrant's telephone number, including area code (832) 968-4888		
Check the appropriate box below if the Form 8-K filing is intended to simu A.2. below):	Itaneously satisfy the filing obligat	ion of the registrant under any of the following provisions (see General Instruction
□ Written communications pursuant to Rule 425 under the Securities Act	t (17 CFR 230.425)	
□ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (1	7 CFR 240.14a-12)	
Pre-commencement communications pursuant to Rule 14d-2(b) under	the Exchange Act (17 CFR 240.14	d-2(b))
□ Pre-commencement communications pursuant to Rule 13e-4(c) under	the Exchange Act (17 CFR 240.13	e-4(c))
Securities registered pursuant to Section 12(b) of the Act:		
Title of Each Class	Trading Symbol(s)	Name of Each Exchange on Which Registered
Common Stock, \$0.001 par value	KRBP	The OTC QB Market
Indicate by check mark whether the registrant is an emerging growth comp. Exchange Act of 1934 (§240.12b-2 of this chapter).	any as defined in Rule 405 of the S	ecurities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities
Emerging growth company 🗵		
If an emerging growth company, indicate by check mark if the registrant has provided pursuant to Section 13(a) of the Exchange Act. $\Box$	is elected not to use the extended tr	ansition period for complying with any new or revised financial accounting standards

#### Item 7.01 Regulation FD Disclosure

Kiromic BioPharma, Inc. (the "Company") intends to conduct meetings with third parties in which its corporate slide presentation will be presented. A copy of the presentation materials is attached as Exhibit 99.1 to this Current Report on Form 8-K and is incorporated herein by reference.

The information in this Item 7.01 and the document attached as Exhibit 99.1 is being furnished and shall not be deemed "filed" for purposes of Section 18 of the Securities and Exchange Act of 1934, as amended (the "Exchange Act"), nor otherwise subject to the liabilities of that section, nor incorporated by reference in any filing under the Securities Act of 1933 or the Exchange Act, except as shall be expressly set forth by specific reference in such a filing.

#### Item 9.01. Financial Statements and Exhibits

(d) Exhibits.

99.1 Kiromic BioPharma, Inc. Corporate Presentation

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#### SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Date: May 21, 2024

Kiromic BioPharma, Inc.

By: <u>/s/ Pietro Bersani</u> Pietro Bersani Chief Executive Officer



## **Forward-Looking Statements**



This presentation contains forward-looking statements that involve substantial risks and uncertainties. Kiromic makes such forward-looking statements pursuant to the safe harbor provisions of the United States Private Securities Litigation Reform Act, Section 21E of the Securities Exchange Act of 1934, as amended, and other federal securities laws. 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 current and anticipated IND applications including statements regarding the scope of and timing for submission of an IND application; the Deltacel™ product platform; the sponsored research agreement and the data that will be generated as a result of such collaboration the timing for submitting and activating Kiromic's IND applications; the benefits of utilizing non-genetically engineered Gamma Delta T cells as our first in-human study; Kiromic's ability to achieve its objectives; and the timing for the initiation and successful completion of Kiromic's clinical trials of its product candidates. 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, 2022, and as detailed from time to time in our 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 forwardlooking 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 press release. 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<sup>™</sup> (Artificial Intelligence) Gamma Delta T-cell (GDT) Therapy: Mechanism of Action (MOA), Product Pipeline, cGMP Manufacturi 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.



## **Solid Malignancy Market Opportunity**

statistics.html



<text>

#### **Competitive Difference** Allogeneic Gamma Delta Based T-Cell Therapies



1. 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.

Maziarz RT. CAR T-cell therapy total cost can exceed \$1.5M per treatment. Cell Therapy Next; May 29, 2019.









# Artificial Intelligence and Bioinformatic Analytic Discovery & Development Platform

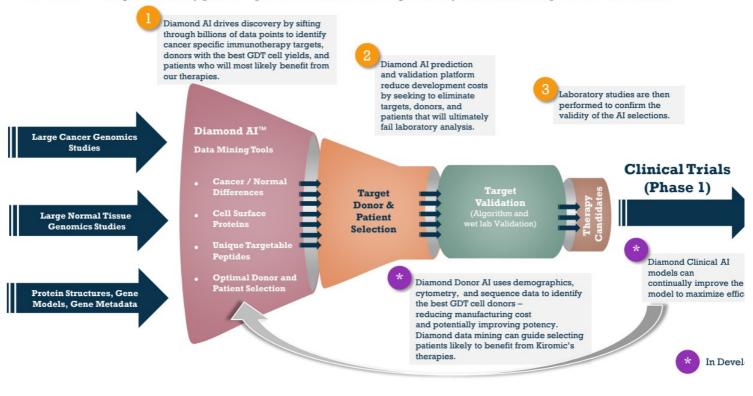
Algorithms and Large-Scale Genomics Analysis for Target Prediction



#### The Kiromic Difference - Diamond AI<sup>™</sup> Target Discovery Platform

KIROMIC

Diamond AI<sup>™</sup> target discovery platform powers innovation and significantly reduces development time and cost.







# **Kiromic GDT Cell Therapy Pipeline**

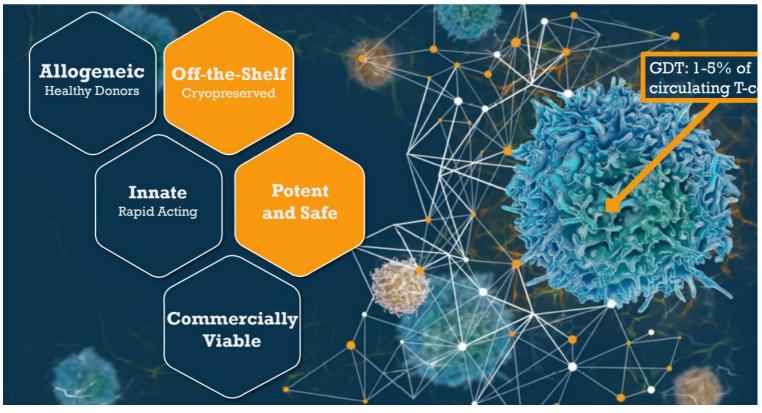
#### **Multiple Indications**





# Gamma Delta T-Cells: Guardians of the Immune System





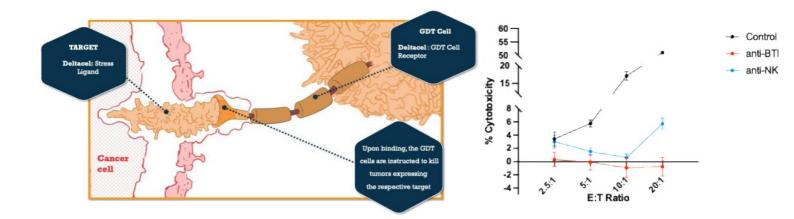
### **Deltacel: Non-Viral Gamma Delta T-Cell Development**







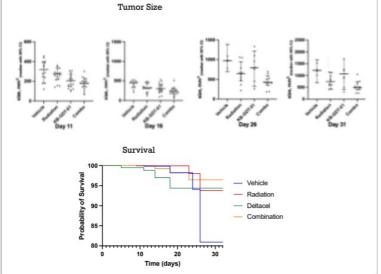
# GDT Cell Therapy Mechanism of Action: Targeting Unique Identifiers on Tumor Tissues



#### **KB-GDT-01 T-Cell Therapy**

# (Deltacel) Strong Efficacy

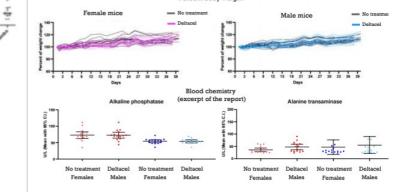
Deltacel<sup>™</sup> effectively controls established A549 NSCLC tumors in immunocompromised mice when combined with a low-dose radiation



## **KB-GDT-01 T-Cell Therapy** (Deltacel) Strong Safety

Deltacel<sup>™</sup> does not cause any macroscopic or microscopic toxicit even when given at over 8x the maximum dose that will be tested the clinical trial

- 1. Deltacel did not impact body weights, food consumption, or macroscopic evaluations a necropsy.
- Microscopic histopathological evaluations showed no evidence of toxicity.
   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. Percent body weight

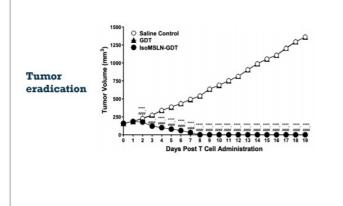




## **GDT CAR T-Cell Therapy**

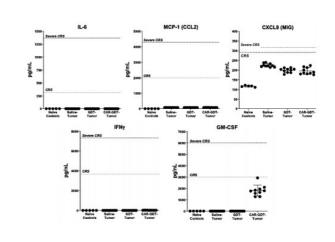
# (Isocel)\* Strong Efficacy

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

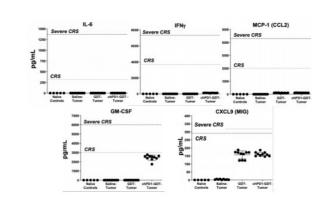
Procel eradicates established NCI-H226 pleural epithelioid mesothelioma and extends survival.

#### 

(Procel)\* Strong Safety Procel does not lead to cytokine level increases modeled to cause severe CRS or CRS, with circulating cell numbers regulated by

**GDT chPD1 T-Cell Therapy** 

objective response.



\*Preclinical models: nude mice with subcutaneous NCI-H226 cells injections





				Preclinical	Phase 1
Deltacel in combination with Low-Dose Radiation Allogeneic, Non-Viral, Non-engineered off-the-shelf GDT therapy	MD Anderson Gancer Center	Universal Non-Engineered	NSCLC		Started Nov 2023
Isocel Alone or in combination with Low-Dose Radiation* Allogeneic, off-the-shelf, Viral vector-free GDT CAR-T therapy	THE UNIVERSITY OF TEXAS	Mesothelin Isoform KRBP proprietary target	ОС, МРМ, РААС		2025
Allogeneic	KIROCICE NGWOOD MDAnderson VERSET V Cancer Center		Multi- indication, PDL-1+ tumors		2025

\* 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









# **Deltacel-01 Phase 1 Clinical Trial**

#### **Evaluating Deltacel in Stage 4 Metastatic Non-small Cell Lung Cancer (NSCLC)**

- Open-label, multicenter trial enrolling up to 48 patients
- Patients receive two IV Deltacel infusions with four courses of low-dose, localized radiation over a 10-day period
- Primary objective:
  - Safety of Deltacel in combination with low-dose radiation
- Secondary outcome measures:
  - Objective response, progression-free survival, overall survival, time to progression, time to treatment response and disease control rates

Patient	Safety	Six Weeks Post-treatment	Two Months Post-treatment	Four Months Post-treatmen
1	✓ No dose limiting toxicities	✓ Stable disease	<ul> <li>✓ Tumor size reduction by 6.6%*</li> <li>✓ Tumor metabolism reduction by 20%**</li> </ul>	✓ Stable disea (compared v month follow
2	✓ No dose limiting toxicities	<ul> <li>✓ Stable disease</li> <li>✓ Complete resolution of brain lesions</li> </ul>	<ul> <li>✓ Stable disease</li> <li>✓ Confirmed clean brain imaging</li> <li>✓ No new brain lesions</li> </ul>	Expected in
3	✓ No dose limiting toxicities	✓ Stable disease	✓ Stable disease	Expected in

Kiromic's Fast-Track Designation Application (to be filed in June 2024) will be based on these safety and efficac
\* As assessed by PET/CT
\*\* As assessed by PED Gutate

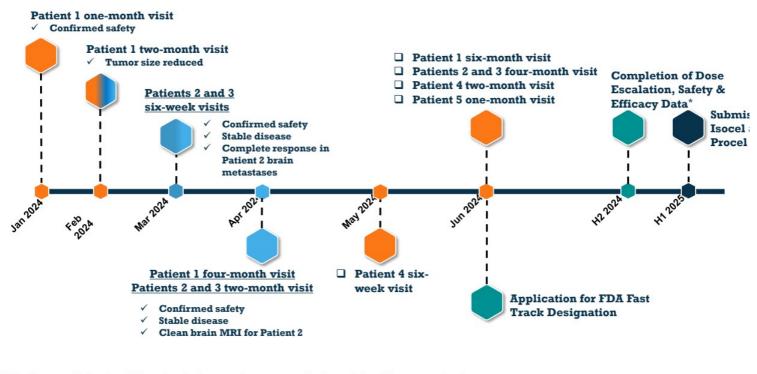
- Patient 4 was enrolled in April 2024
- Patient 5 is expected to be enrolled in May 2024
- · Patient 6 is expected to be enrolled in June 2024



#### **Early Results**

# **Recent and Upcoming Milestones**





\* The milestones and timing of completion are based on the company's current expectations in consultation with its partners and vendors. \*\* Subject to obtaining sufficient financing to support the progression of the development of those additional clinical trial candidates.



# Leadership Team

<b>Pietro</b> <b>Bersani</b> CPA, CGMA	Leonardo Mirandola Ph.D.	Scott Dahlbeck M.D., Pharm.D.	Brian Hungerford CPA,CGMA
CEO	CSO/INTERIM COO	COSO	CFO
	TEXAS TECH UNIVERSITY HEALTH SCIENCES CENTER.	Texas Tech Univ Health Science Center	Deloitte.
	UNIVERSITÀ DEGLI STUDI DI MILANO	aurora ASA	MERRILL MAD. A BANK OF AMERICA COMPANY
Fuel Systems Solutions			accenture
Deloitte.	European School of Molecular Medicine	Health Science Center Houston	Constellation.
Arthur Andersen		Netraska College	DYNEGY 🔀





Michael Nagel Chairperson	Pietro Bersani CPA, CGMA Director	Pam Misajon Independent Director	Michael Catlin Independent Director
neomend	Image: A state of the stat	SUNEVA MEDICAL PEGASUS	CAPITAL GROUP®
FRANKLIN GROUP	<b>Deloitte</b> . Arthur Andersen		www.ici.org

# Summary Balance Sheet & Cap Table



Balance Sheet Data (As of March 31, 2024)	As Reported (In Thousands)
Cash and Cash Equivalents	\$3,676
Working Capital	(\$13,525)
Total Assets	\$12,628
Total Stockholders' Deficit	(\$7,212)

Cap Table (As of March 31, 2024)	Common Stock Equivalents
Common Stock	1,288,235
Restricted Stock Units (\$3.19 Weighted average grant date fair value)	440
<b>Options</b> (\$101.04 Weighted average exercise price)	18,093
Warrants	15,416
Convertible Preferred Share Shares (\$14MM principal & \$6.50 share conversion) (\$8MM principal & \$2.50 share conversion)	5,833,973
Convertible Notes (\$4.8MM principal & \$6.50 share conversion) (\$4.8MM principal & \$5.00 share conversion) (\$2.4MM principal & \$2.50 share conversion)	3,025,431
Fully Diluted Common Shares	10,181,588

# Value Proposition Summary



