UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 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 24, 2022

Alaunos Therapeutics, Inc.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation) 001-33038 (Commission File Number) 84-1475642 (IRS Employer Identification No.)

8030 El Rio Street Houston, TX 77054

(Address of principal executive offices, including zip code)

(346) 355-4099 (Registrant's telephone number, including area code)

Not applicable

(Former name or former address, if changed since last report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

□ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

□ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

D Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

D Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Securities registered pursuant to Section 12(b) of the Act:

	Trading	Name of each exchange
Title of each class	Symbol(s)	on which registered
Common Stock, par value \$0.001 per share	TCRT	The Nasdaq Stock Market LLC

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Emerging growth company \Box

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. \Box

Item 7.01 Regulation FD Disclosure

On May 24, 2022, Alaunos Therapeutics, Inc.'s Chief Executive Officer, Kevin S. Boyle Sr., and Vice President of Research & Development, Drew Deniger, Ph.D., gave a presentation at the H.C. Wainwright Global Investment Conference. A copy of the presentation is furnished as Exhibit 99.1 to this Current Report on Form 8-K.

The information contained in this Item 7.01, including Exhibit 99.1, is being "furnished" and shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liability of that Section or Sections 11 and 12(a)(2) of the Securities Act of 1933, as amended (the "Securities Act"). The information contained in this Item 7.01, including Exhibit 99.1, shall not be incorporated by reference into any registration statement or other document pursuant to the Securities Act, except as otherwise expressly stated in any such filing.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

Exhibit No.	Description	
99.1	Presentation, dated May 2022	
104	Cover Page Interactive Data File (embedded within the Inline XBRL document)	

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.

Alaunos Therapeutics, Inc.

Date. May 24, 2022

By: /s/ Melinda Lackey Name: Melinda Lackey Title: Senior Vice President, Legal



H.C. Wainwright Global Investment Conference

May 24, 2022

Forward Looking Statements

This presentation contains forward-looking statements as defined in the Private Securities Litigation Reform Act of 1995, as amended. Forward-looking statements are statements that are not historical facts, and in some cases can be identified by terms such as "may," "will," "could," "expects," "plans," "anticipates," "believes" or other words or terms of similar meaning. These statements include, but are not limited to, statements regarding the Alaunos Therapeutics, Inc.'s ("Alaunos" or "the Company") business and strategic plans, the Company's ability to raise capital, and the timing of the Company's research and development programs, including the anticipated dates for enrolling and dosing patients in the Company's clinical trials. Although the management team of Alaunos believes that the expectations reflected in such forward-looking statements are reasonable, investors are cautioned that forward-looking information and statements are subject to various risks and uncertainties, many of which are difficult to predict and generally beyond the control of Alaunos, that could cause actual results and developments to differ materially from those expressed in, or implied or projected by, the forwardlooking information and statements. These risks and uncertainties include, among other things, changes in the Company's operating plans that may impact its cash expenditures; the uncertainties inherent in research and development, future clinical data and analysis, including whether any of Alaunos' product candidates will advance further in the preclinical research or clinical trial process, including receiving clearance from the U.S. Food and Drug Administration or equivalent foreign regulatory agencies to conduct clinical trials and whether and when, if at all, they will receive final approval from the U.S. Food and Drug Administration or equivalent foreign regulatory agencies and for which indication; the strength and enforceability of Alaunos' intellectual property rights; and competition from other pharmaceutical and biotechnology companies as well as risk factors discussed or identified in the public filings with the Securities and Exchange Commission made by Alaunos, including those risks and uncertainties listed in the most recent Form 10-Q and Form 10-K filed by Alaunos with the Securities and Exchange Commission. We are providing this information as of the date of this presentation, and Alaunos does not undertake any obligation to update or revise the information contained in this presentation whether as a result of new information, future events, or any other reason.



Shareholder Value Creation:

A Clinical Stage TCR-T Company Targeting Solid Tumors

	Vision 2022 – Execution Mindset, Delivering Results
Weaponizing the immune system with powerful TCRs to treat solid tumors Targeting driver mutations using T cells genetically modified with proprietary non-viral <i>Sleeping</i> <i>Beauty</i> platform	Phase 1/2 TCR-T Library Trial Enrolling; First patient treated April 2022, interim data expected 2H22
	2 Clinical Library of 10 TCRs (<i>KRAS, TP53, EGFR</i>) Targeting Six Solid Tumor Indications
	3 Utilize internal cGMP Manufacturing Facility For TCR-T Library Trial
	Proprietary TCR Discovery Platform, hunTR [™] , Expanding and Advancing the Pipeline
	Alaunos

TCR-T Platform with Multiple Solid Tumor Programs in Pipeline



THERAPEUTICS

TCR-T is Superior to Other Cell Therapy Approaches for Solid Tumors

	TCR-T	CAR-T	TIL
Target Intracellular & Extracellular Antigens	0		0
Proven Efficacy in Solid Tumors	0		0
Defined Target Specificity	0	0	
Targets Somatic Neoantigens	0		0
Established Transposon-based Gene Transfer	0	0	

Table above not based on head-to-head trials

ALAUNOS'

A Differentiated TCR-T Program Targeting Solid Tumors



Targeting Hotspot Mutations

Hotspot mutations are ideal targets for defeating cancer



Non-viral transposition technology has favorable safety profile

Rapid, flexible & costeffective manufacturing

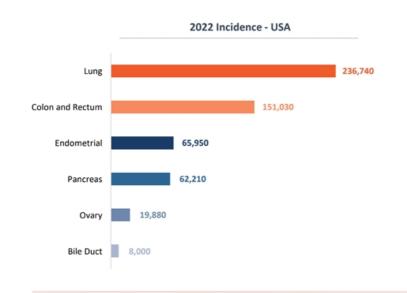


hunTR[™] Platform (<u>hu</u>man <u>n</u>eoantigen <u>T</u> cell <u>R</u>eceptor)

Robust discovery engine enables expansion of TCR Library

ALAUNOS .

Our TCR-T Cell Platform Targets Solid Tumors in Large Patient Populations with Unmet Clinical Need

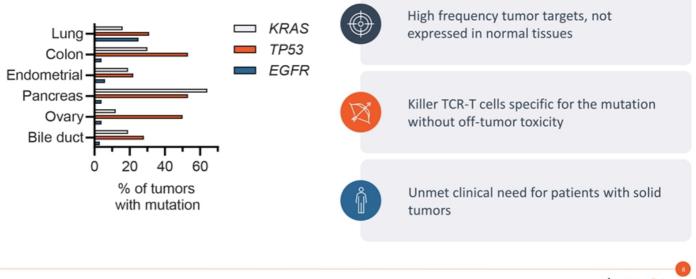


- In the US, 92% of new cancer cases are solid tumors
- 4,804 patients are diagnosed every day with cancerous solid tumor
- 1,548 patients die every day from a solid tumor cancer

ource: https://www.cancer.org/research/cancer-facts-statistics/all-cancer-facts-figures/cancer-facts-figures-2022.html https://www.cancer.org/cancer/bile-duct-cancer/abour/key-statistics.html; CA CANCER J CUN 2021;71:7-33

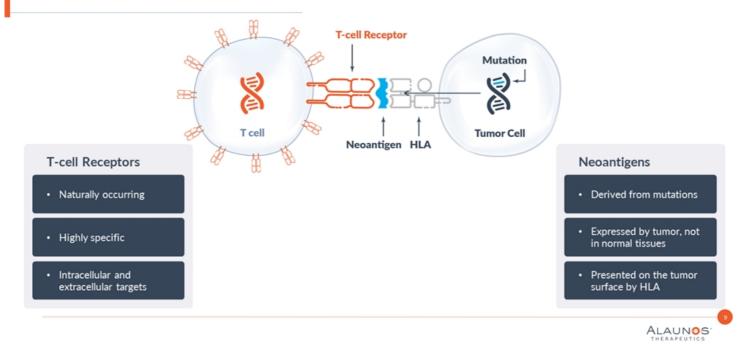


KRAS, TP53, EGFR Mutations are Commonly Expressed in Targeted Indications

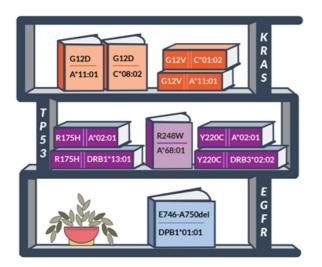


Source: Catalogue of Somatic Mutations in Cancer (COSMIC) database https://cancer.sanger.ac.uk/cosmic ALAUNOS"

TCRs Can Give Patients' T Cells a New Ability to Recognize and Kill Tumor Cells with Common Mutations



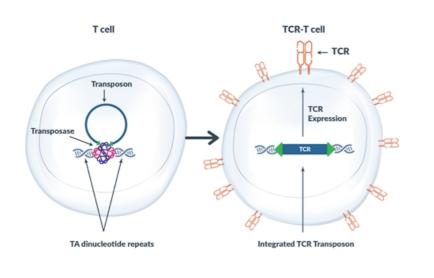
TCR Library Captures High Frequency Mutations and HLA Types



- Common HLAs are represented in our TCR library
- Certain mutations have more than one HLA restriction
- As more TCRs are added to our library, the addressable patient market size will further increase



Non-viral *Sleeping Beauty* Platform for Manufacturing TCR-T Cells without the Complexity of Gene Editing



- Efficient integration without the complexity of gene editing or viral approaches
- · Rapid, cost-effective manufacturing
- Flexible approach to add TCRs; attractive choice for library
- Platform can accommodate large transgene size
- Process scalable for clinical production



TCR-T Cells Recognize *KRAS*, *TP53*, *EGFR* Mutations and Kill Solid Tumor Cells



Powerful TCRs:

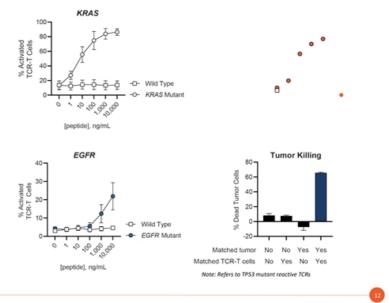
Naturally-occurring, high avidity TCRs recognize low levels of neoantigens



No off-target toxicity observed: Specificity for the mutation with negligible recognition of the wild type sequences



Tumor killing: Recognition of tumor cells that express mutation and HLA



ALAUNOS

Actively Enrolling First-in-Human TCR-T Clinical Trial with Innovative Library Approach



- Trial enrolling patients where a TCR matching a neoantigen / HLA pairing is available in our TCR-T library
- Phase I is a prospective, open-label, dose-escalation study of TCR-T cells in patients with progressive or recurrent solid tumors who have failed standard therapy utilizing a Bayesian optimal interval design (BOIN) with an accelerated dose escalation
- Patients will be enrolled in one of three dose cohorts: 5x10⁹, 4x10¹⁰, 1x10¹¹

Phase I Objectives:

- Define dose limiting toxicity (DLT) and the maximum tolerated dose (MTD) or recommended phase II dose (RP2D)
- Evaluate the feasibility of TCR-T cell drug product manufacturing

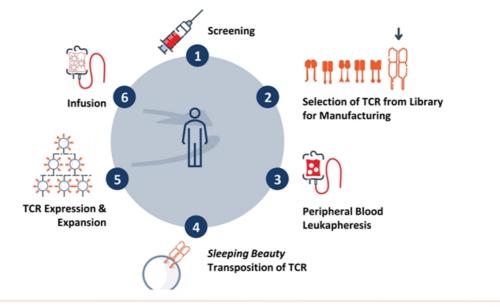


Alaunos Successfully Dosed its First Patient in the TCR-T Library Phase 1/2 Trial of Patients with Solid Tumors

- Patient #1 has non-small cell lung cancer, and had one prior line of adjuvant therapy following surgery and three prior lines of systemic therapy
- The patient has a tumor with a KRAS G12D mutation
- The patient was treated at the first dose level with TCR-T cells and has now cleared the 28-day safety window
- We expect to report initial data from the study in 2H 2022



Each Autologous TCR-T Cell Product is Manufactured with a TCR Matched for the Patient's Mutation and HLA Type

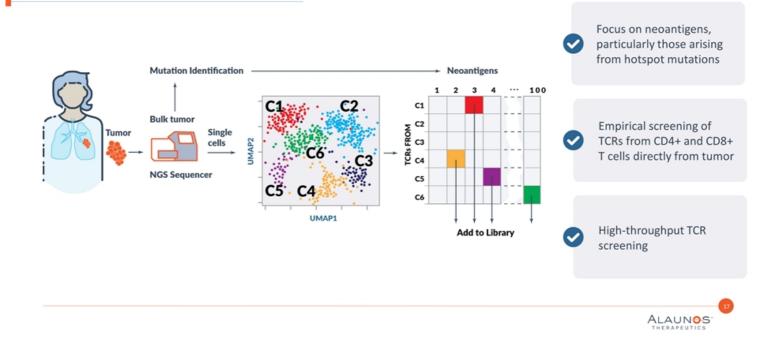


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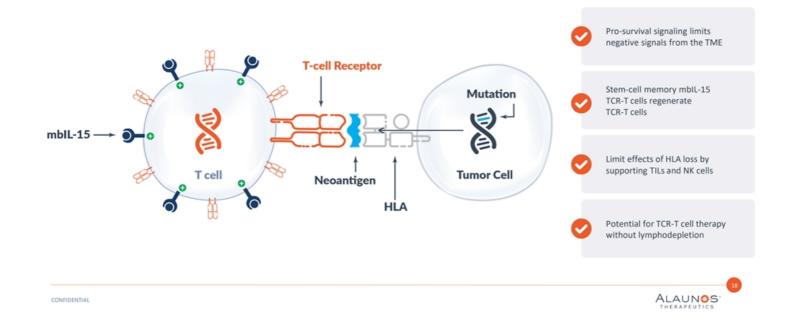
State of the Art, In-House cGMP Manufacturing Facility Operational



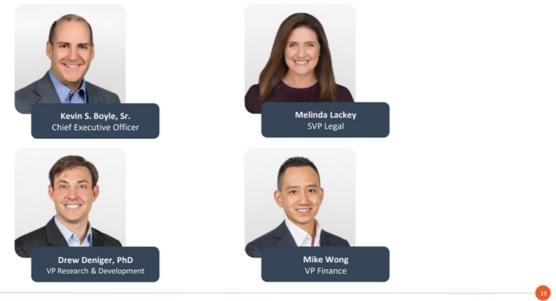
hunTR[™] Program Rapidly Expands TCR Library Targeting Hotspot Mutations



mbIL-15 Improves the Persistence and Anti-tumor Activity of TCR-T cells in the Tumor Microenvironment (TME)



Experienced Management Team



ALAUNOS

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