#### 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): July 7, 2023

#### AZITRA, INC.

(Exact name of registrant as specified in its charter)

**Delaware** (State or other jurisdiction of incorporation) **001-41705** (Commission File Number) 46-4478536 (IRS Employer Identification No.)

21 Business Park Drive Branford, CT 06405 (Address of principal executive offices)(Zip Code)

(203) 646-6446

(Registrant's telephone number, including area code)

(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 obligations 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)

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

Dere-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:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock: Par value \$0.0001	AZTR	NYSE American

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 ⊠

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.

#### Item 7.01 Regulation FD Disclosure.

In connection with a proposed non-deal roadshow, we intend to provide participants a corporate presentation. The presentation materials are attached to this Current Report on Form 8-K as Exhibit 99.1 and incorporated into this Item 7.01 by reference.

#### Item 9.01 Financial Statements and Exhibits.

#### (d) Exhibits

The following exhibit is furnished with this report:

 Exhibit 99.1
 Azitra Inc.'s July 2023 Corporate Presentation

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 Cover Page Interactive Data File (embedded within the Inline XBRL document)

Filed Electronically herewith

#### 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.

AZITRA, INC.

/s/ Francisco D. Salva

Francisco D. Salva Chief Executive Officer

Dated: July 7, 2023

Exhibit 99.1



CORPORATE PRESENTATION July 2023

Precision dermatology powered by synthetic biology.

#### SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This document contains forward-looking statements concerning Azitra, Inc. ("Azitra", the "Company," "we," "us," and "our"). The words "believe," "may," "will," "potentially," "estimate," "continue," "anticipate," "intend," "could," "would," "project," "plan," "expect" and similar expressions that convey uncertainty of future events or outcomes are intended to identify forward-looking statements. These forward-looking statements include, but are not limited to, statements concerning the following:

- our future financial and operating results;
- our intentions, expectations and beliefs regarding anticipated growth, market penetration and trends in our
- business; the timing and success of our plan of commercialization;
- our ability to successfully develop and clinically test our product candidates;
- and the adequacy of the net proceeds of this offering.

These forward-looking statements are subject to a number of risks, uncertainties and assumptions, including (i) we are an early-stage clinical biopharmaceutical company with limited operating history, (ii) there are no drug products to date that incorporate our microbial library and genetic engineering platform and the clinical and commercial utility of our microbial library and genetic engineering platform is uncertain and may never be realized; (iii) we have only recently commenced Phase 1 clinical studies of our initial product candidates and our product candidates will require extensive additional preclinical and clinical testing; (iv) we expect we will need additional financing to execute our business plan and fund operations, which additional financing may not be available on reasonable terms or at all; and (v) those other risk described in "Risk Factors" section of the prospectus ("Prospectus") dated June 15, 2023 filed by Azitra with the Securities and Exchange Commission on June 21, 2023.

In light of these risks, uncertainties and assumptions, the forward-looking events and circumstances discussed in this document may not occur and actual results could differ materially and adversely from those anticipated or implied in our forward-looking statements. You should not rely upon forward-looking statements as predictions of future events. Although we believe that the expectations reflected in our forward-looking statements are reasonable, we cannot guarantee that the future results, levels of activity, performance or events and circumstances described in the forward-looking statements will be achieved or occur. Azitra does not undertake and specifically disclaims any obligation to update or revise our forward-looking statements to reflect new circumstances or unanticipated events as they occur, except as required by law.

This document contains only basic information concerning Azitra. Because it is a summary it does not contain all of the information you should consider with regard to Azitra. You should read the Prospectus for more complete information about Azitra.



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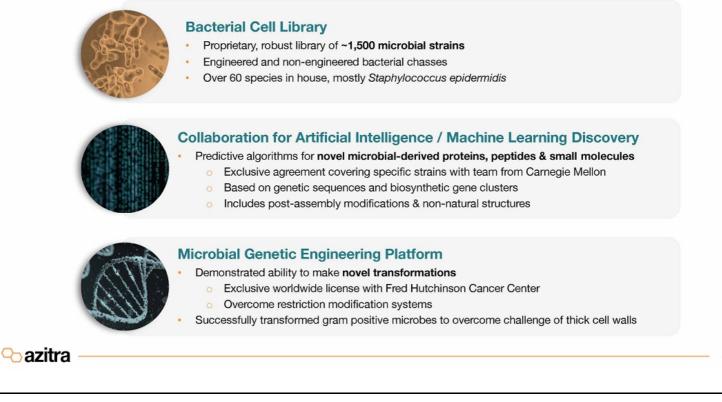
# Azitra is led by world-class management team

	Francisco Salva, MSc. President and CEO	<ul> <li>Formerly Senior Director –Corporate Development at Pharmacyclics</li> </ul>	Acerta Pharma
Se .	Travis Whitfill, M.P.H. Co-Founder and Incoming COO	<ul> <li>Partner at Bios Partners</li> <li>Assistant Professor Adjunct in the Department of Pediatrics at Yale University</li> <li>Named one of Forbes' 30 Under 30 in healthcare in 2018</li> </ul>	Bios Partners Yale
	Norman Staskey, CPA CFO	<ul> <li>Currently Acting CFO via Danforth Advisors</li> <li>Previously, Managing Director E&amp;Y</li> <li>20+ years accounting experience, including multiple IPO, SPAC and M&amp;A transactions</li> </ul>	EY
	Roger Leger, Ph.D. Vice President – Chemistry and Formulation	<ul> <li>Prior Senior Director Chemistry and CMC at Thrasos (Kidney Diseases)</li> <li>Former VP Research Indel Therapeutics Inc (Antimicrobials)</li> <li>Former VP Chemistry and Co-Founder Ulysses Pharmaceuticals Inc (Bacterial Infections)</li> </ul>	THRASOS
	Leonard Milstone, M.D. Professor Emeritus of Dermatology Yale Medical School Azitra Scientific Advisory Board	<ul> <li>Led the group that first demonstrated gene editing in the epidermis</li> <li>Discovered the unique proteoglycan Epican as well as keratins 4 and 13</li> <li>Former Chair, Medical and Scientific Advisory Board, Foundation for Ichthyosis and Related Skin Types</li> </ul>	Yale

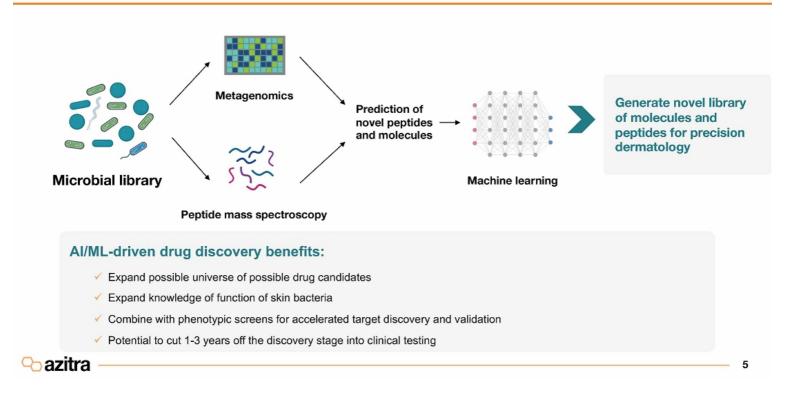


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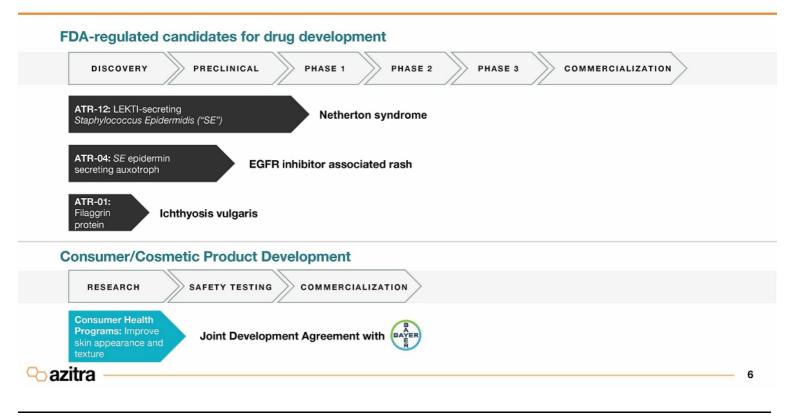
### Precision dermatology powered by synthetic biology and the metagenome

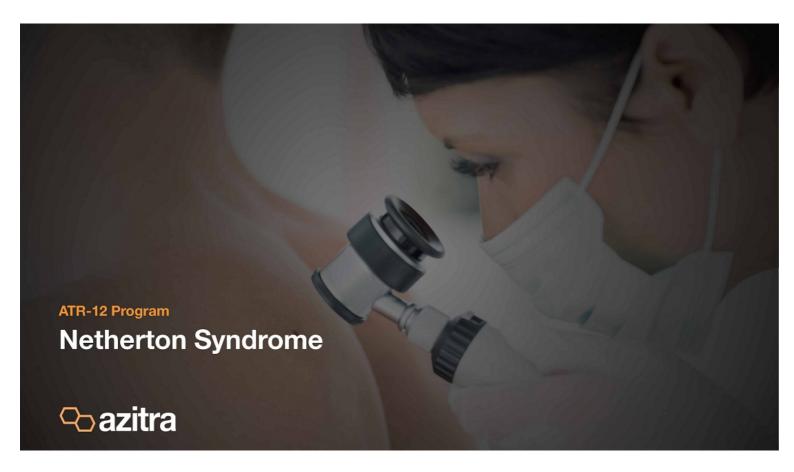


### Machine learning for novel drug discovery

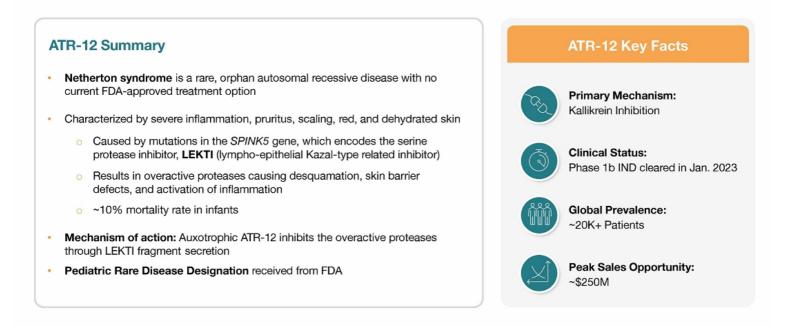


# Azitra's pipeline creates near-term value





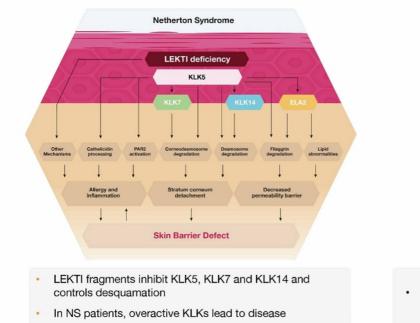
### ATR-12: LEKTI-Secreting Staphylococcus epidermidis for Netherton syndrome



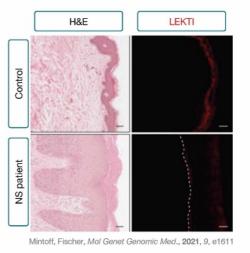
# Two Netherton syndrome phenotypes are driven by SPINK5 mutations



# Rationale to target KLK5 in Netherton syndrome via LEKTI delivery

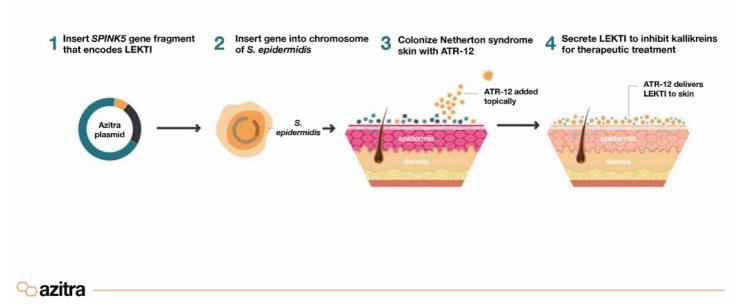


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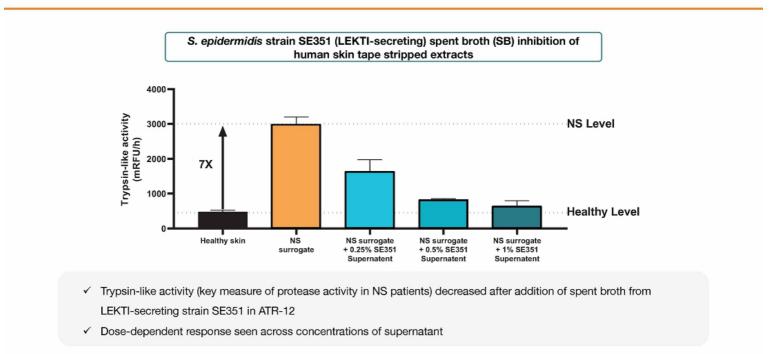


 Netherton syndrome patients have undetectable levels of LEKTI in skin

### Engineering S. epidermidis into ATR-12 for Netherton syndrome



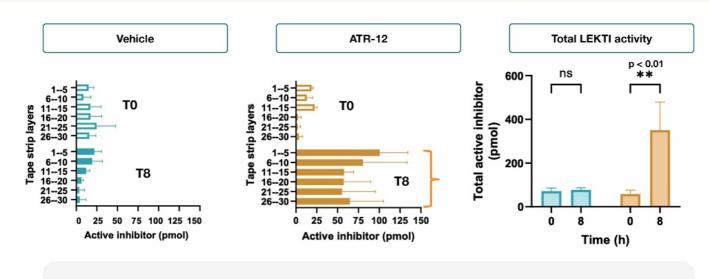
### Ex vivo activity of ATR-12 shows decreased trypsin-like activity





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# Penetration of LEKTI-like activity into ex vivo human skin



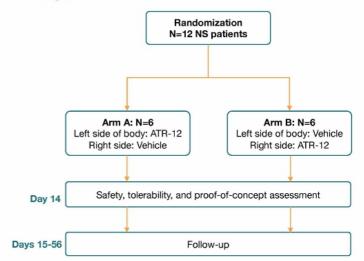
- ✓ LEKTI activity is significantly higher after 8 hours compared to T0 in all layers following ATR-12 application
- ✓ The LEKTI activity penetrates to at least 30 layers deep in substantial amounts

#### Phase 1 clinical trial design

#### Study overview

- Multicenter, randomized, double-blind, vehiclecontrolled Phase 1 study in adult Netherton syndrome patients
- Dose level: 109 CFU / g ATR-12
- N=12 patients dosed twice daily over 14 days
- Primary endpoint: safety and tolerability
- · Secondary endpoints:
  - Efficacy endpoints
  - Pharmacokinetics
- · Exploratory endpoints:
  - Biomarkers: KLK5, KLK7, IL-36, TARC/CCL17, trypsin-like activity, and chymotrypsin-like activity

#### Design



# ATR-12 is a differentiated approach for Netherton syndrome

	Company	Asset	Description	Status	Topical treatment	Protein replacement	Disease Modifying
Kallikrein inhibitors	<b>⇔azitra</b> `	ATR-12	S. epidermidis strain engineered to express LEKTI; topical	IND-enabling			
minutors	SIXERA PHARMA	SXR1096	KLK inhibitor;topical	Phase 1(EU)			
Gene therapy	*MoST	BBP-561	KLK5/7 inhibitor; topical	IND-enabling	$\checkmark$		$\checkmark$
шегару .	Krystal	KB104	Gene therapy; topical (admin at home)	IND-enabling	$\checkmark$		$\checkmark$
	Investigator- initiated trial	Cosentyx <sup>1</sup>	IL-17A antibody; subcutaneous injection	Phase 2			
Other	AnaptysBio	ANB0191	IL-36R antibody; injection	Phase 2			
	MatriSys	MSB-6005	Skinmicrobiome therapy; topical	Preclinical	$\checkmark$		
		QRX-003	Protease inhibitor;topical	Phase 2	$\checkmark$		
	<sup>1</sup> Under investigation fo	or broader category of	ichthyoses.				
azitra							



### ATR-04: auxotrophic S. epidermidis for EGFR inhibitor-associated rash

#### **ATR-04 Summary**

- Chemotherapy agents such as EGFR inhibitors and immunotherapies such as early BTK inhibitors lead to an aggressive and debilitating rash on most patients
- Severity of the rash is linked to IL-36g signaling as well as correlations to S. aureus increases
- · EGFR inhibitors produce the most prevalent and most predictable affliction
- ATR-04 is topically administered and inhibits IL-36g and S. aureus

#### ATR-04 Key Facts



Primary Mechanism: IL36g Inhibition, *S. aureus* control



Clinical Status: IND filing expected 2H 2023



US Prevalence: >200,000 patients



Peak Sales Opportunity: >\$1B

### EGFRi-driven rash is highly prevalent with significant clinical impact



• Rash severity often linked to cancer drug dosing and correlates with S. aureus levels on the skin

- · Rash can lead to significant changes in course of therapy and QOL
- As many as 15-20% discontinue EGFRi therapy due to skin rash

Source: Melosky et al. (2015). Grade 1, gefitinib; grade 2, erlotinib; grade 3, erlotinib; grade 4, erlotinib



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# **Collaborations and Future Directions**

**⇔azitra** 

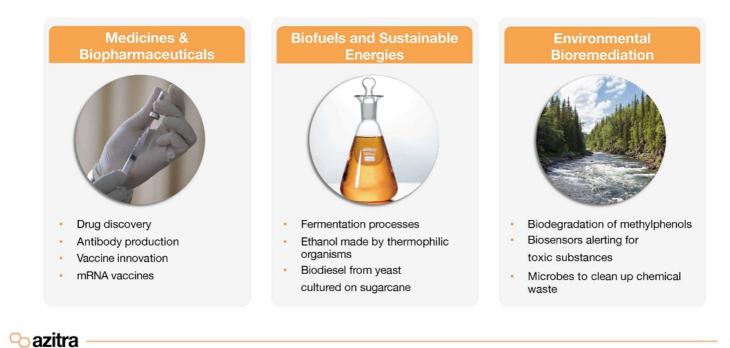
### Bayer consumer health product joint development partnership



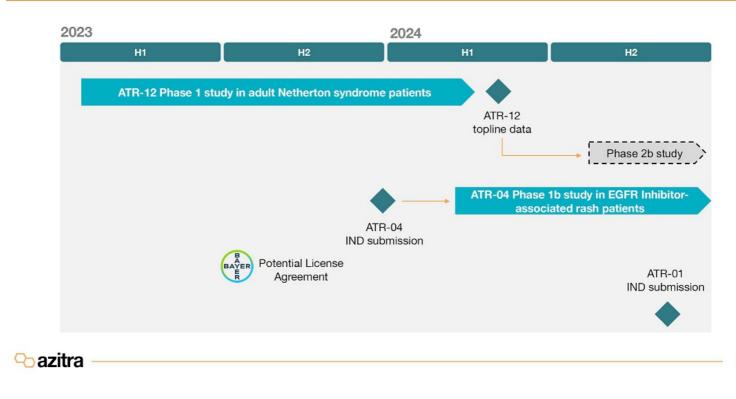
#### Joint Development Agreement overview:

- ✓ Joint development on S. epidermidis strains and products for eczema-prone skin
- ✓ Azitra is responsible for early research, and Bayer is responsible for clinical development and commercialization

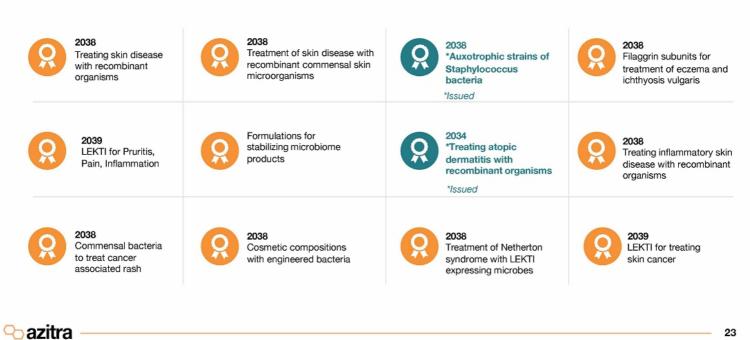
### Broad spectrum of potential future applications



### ATR-12 and ATR-04 bring value-creating milestones in 2023-2024



#### Robust intellectual property with key patents issued



# **Capitalization table**

	Offering
Common Shares	12,097,643
Warrants (WAEP: \$4.59)	335,199
Options (WAEP: \$1.34)	1,260,681*
Fully Diluted Shares Outstanding:	13,693,523

\*Does not include an overallotment option held by our IPO underwriter to purchase up to 225,000 shares of our common stock at \$5.00 per share exercisable through July 30, 2023.

### Azitra well-positioned to take advantage of synthetic biology innovations



