UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 8-K

CURRENT REPORT

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

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

ANIXA BIOSCIENCES, INC.

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of incorporation)

001-37492 (Commission File Number) 11-2622630 (IRS Employer Identification No.)

95118

(Zip Code)

3150 Almaden Expressway, Suite 250 San Jose, CA

(Address of principal executive offices)

Registrant's telephone number, including area code: (408) 708-9808

(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 to 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))

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:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, par value \$0.01 per share	ANIX	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.

Item 5.07 Submission of Matters to a Vote of Security Holders.

On March 21, 2024, Anixa Biosciences, Inc. (the "Company") completed its 2024 annual meeting of stockholders (the "Annual Meeting"). The number of shares of stock entitled to vote at the Annual Meeting was 31,711,753 shares of common stock (the "Voting Stock"). The number of shares of Voting Stock present or represented by valid proxy at the Annual Meeting was 18,521,786 shares. At the Annual Meeting, the Company's stockholders (i) re-elected Dr. Amit Kumar, Dr. Arnold Baskies, Emily Gottschalk, and Lewis H. Titterton, Jr. as directors, (ii) approved, on a non-binding, advisory basis, the Company's executive compensation, and (iii) ratified the appointment of Haskell & White LLP as the Company's independent registered public accounting firm for the fiscal year ending October 31, 2024. The following is a tabulation of the voting on the proposals presented at the Annual Meeting:

Proposal No. 1 – Election of directors

Dr. Amit Kumar, Dr. Arnold Baskies, Emily Gottschalk, and Lewis H. Titterton, Jr. were each re-elected to serve until the 2025 annual meeting of stockholders or until their successors are elected and qualified or until their resignation or removal. The voting results were as follows:

Nominee	Shares Voted For	Shares Withheld	Broker Non-Vote
Dr. Amit Kumar	7,894,499	82,654	10,544,633
Dr. Arnold Baskies	7,857,006	120,147	10,544,633
Emily Gottschalk	7,853,085	124,068	10,544,633
Lewis H. Titterton, Jr.	7,718,162	258,991	10,544,633

Proposal No. 2 – Approval, by non-binding advisory vote, of the Company's executive compensation

The Company's executive compensation, by non-binding advisory vote, was approved. The voting results were as follows:

Votes For	Votes Against	Abstentions	Broker Non-Votes
6,010,385	1,843,353	123,415	10,544,633

Proposal No. 3 - Ratification of the appointment of independent registered public accounting firm

The appointment of Haskell & White LLP as the Company's independent registered public accounting firm for the fiscal year ending October 31, 2024 was ratified. The voting results were as follows:

Shares Voted For	Shares Voted Against	Shares Abstaining	Broker Non-Vote	
18,390,227	80,392	51,167	-	

Item 7.01 Regulation FD Disclosure.

Attached as Exhibit 99.1 to this Current Report is the form of presentation of the Company which was used by management at its Annual Meeting. This presentation may be used by the Company in the future at meetings with investors, analysts or others, in whole or in part and possibly with modifications from time to time.

Item 9.01. Financial Statements and Exhibits

(d) Exhibits

The following exhibits are filed with this Current Report on Form 8-K:

Exhibit No.	Description
99.1	Presentation
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.

Dated: March 22, 2024

ANIXA BIOSCIENCES, INC.

By: /s/ Michael J. Catelani

Name: Michael J. Catelani

Title: President, Chief Operating Officer and Chief Financial Officer



Dr. Amit Kumar **Chairman and CEO**

NASDAQ:ANIX

March 21, 2024 Presentation at Annual Shareholder Meeting



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Forward-Looking Statements

Statements that are not historical fact may be considered forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements are not statements of historical facts, but rather reflect Anixa Biosciences' current expectations concerning future events and results. We generally use the words "believes," "expects," "intends," "plans," "anticipates," "likely," "will" and similar expressions to identify forward-looking statements. Such forward-looking statements, including those concerning our expectations, involve risks, uncertainties and other factors, some of which are beyond our control, which may cause our actual results, performance or achievements, or industry results, to be materially different from any future results, performance, or achievements expressed or implied by such forward-looking statements. These risks, uncertainties and factors include, but are not limited to, those factors set forth in "Item 1A – Risk Factors" and other sections of our most recent Annual Report on Form 10-K as well as in our Quarterly Reports on Form 10-Q and Current Reports on Form 8-K. We undertake no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law. You are cautioned not to unduly rely on such forward-looking statements when evaluating the information presented herein.

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Anixa Snapshot

Clinical-stage company developing first-in-class products to treat & prevent cancer



Clinical Programs & Development Partnerships

THERAPEUTIC AREA	MECHANISM OF ACTION	INDICATION	GEOGRAPHIC RIGHTS	STAGE	UPCOMING MILESTONES	PARTNERS
Oncology	Vaccine	Breast Cancer	Global	Phase 1	Additional Phase 1a,b,c data releases	Cleveland Clinic
Oncology	Vaccine	Ovarian Cancer	Global	Pre-clinical	Initiate IND enabling studies	Cleveland Clinic
Oncology	CAR-T Therapeutic	Ovarian Cancer / Other Solid Tumors	Global	Phase 1	Periodic data releases (enrollment based)	CANCER CENTER CON



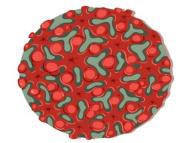
Preventative Cancer Vaccines Have Failed

... except for cancers driven by infectious agents.

Human Papillomavirus (HPV)

Human papillomavirus (HPV) is a common sexually transmitted virus that can cause genital warts and several types of cancer, including cervical, vaginal, vulvar, anal, penile, and oropharyngeal (throat) cancer.

Hepatitis B Virus (HBV)



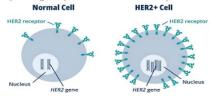
Hepatitis B is caused by the hepatitis B virus (HBV). Hepatitis B is a viral infection that attacks the liver and can cause severe liver damage, liver cancer, and death. It spreads through contact with infected blood, unprotected sex, and from mother to baby during childbirth.

While these vaccines are generally called Cancer vaccines, from a molecular standpoint, they are really vaccines against infections.

Why Have Preventative Cancer Vaccines Failed?

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Cancer vaccines typically target proteins overexpressed on tumors.



Mechanisms exist to limit immune response against self-proteins.

- Proteins overexpressed on cancer cells (Self-Proteins) are also ubiquitously expressed on many healthy tissues
 —Examples : Her-2 Neu, Mesothelin, Muc-1
- It is challenging to overcome Thymic Deletion and other mechanisms, many yet to be discovered
- These mechanisms exist to prevent autoimmune disorders

Autoimmune disorders are created by vaccination.

 With powerful adjuvants, we may be able to create suitable immune responses against selfproteins

If we create immune response against overexpressed self protein, we also create autoimmune disorders against healthy tissues and organs

—OK for therapeutics because we can withdraw drug if side-effects are intolerable

—Not OK for preventative vaccines- because once you induce the immune system, we can't pull it back

RETIRED TISSUE-SPECIFIC PROTEINS HYPOTHESIS

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A New Paradigm for Prophylactic Cancer Vaccines

Proposed by the late Dr. Vincent Tuohy, Cleveland Clinic

Retired Tissue-Specific Proteins for Prophylactic Cancer Vaccines

Retired tissue-specific protein definition:

- Protein that is expressed, in a particular tissue, at certain times in life for a particular function
- After function is no longer necessary, that protein is no longer expressed
- The protein is again expressed in emerging cancer cells

Why is this a good antigen for prophylactic vaccines?

- Vaccination is performed at an age after which that function is no longer needed
- Protein is expressed only on cancer cells and no healthy cells and tissue
- Therefore, we can induce an immune response against cancer but no autoimmune response against healthy tissues or organs

The molecular approach has never been utilized for vaccines

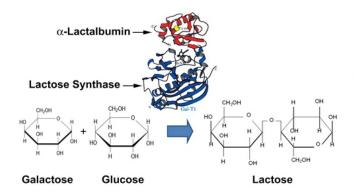
Breast Cancer Vaccine

10

Breast Cancer Vaccine: Retired Tissue Specific Protein

Retired Tissue Specific Protein

Expressed at periods of life, but no longer expressed as we age

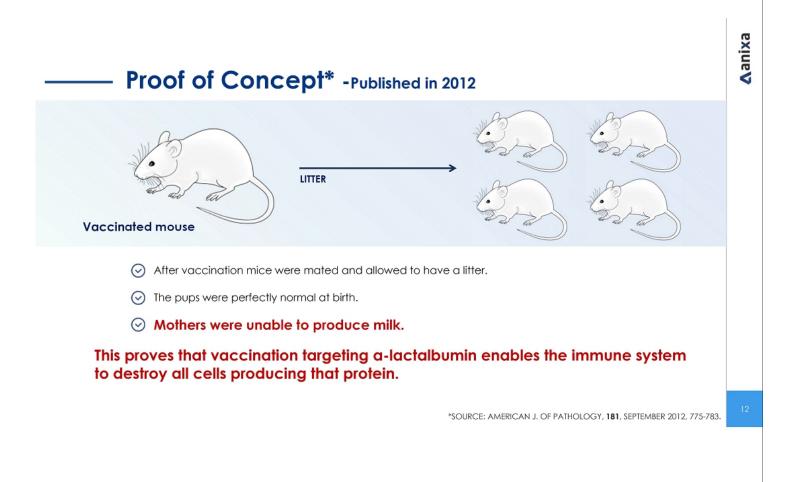


a-LACTALBUMIN

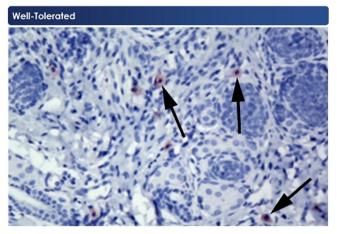
- Expressed **only** in the breast and **only** during lactation
- Expressed in tumor cells, especially Triple Negative Breast Cancer ("TNBC")
- Our vaccine targets this retired protein
 - Once vaccinated, the patient's immune system is ready to destroy cells expressing the protein as they arise, disallowing cancer to gain critical mass

TNBC Overview

- Most aggressive form of breast cancer
- Prevalent cancer in patients with breast cancer gene ("BRCA") mutations

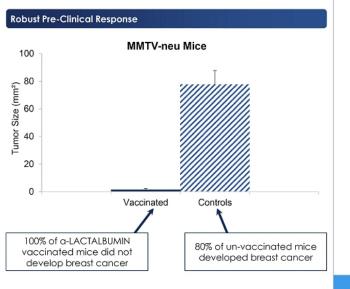


Pre-Clinical Studies: Vaccination Prevents Breast Cancer



Vaccinated mice did not exhibit autoimmune damage, while single Tcell infiltrates were seen in non-lactating breast tissue (arrows)

Data published: Cancers, 2016, 8, 56.



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Phase 1 Trial

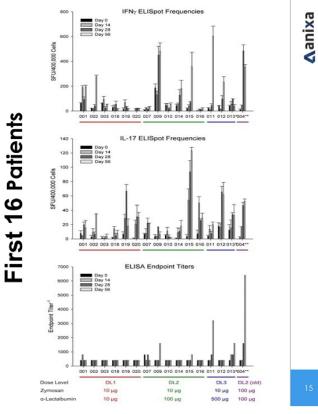
Conducted by Cleveland Clinic, funded by U.S. Department of Defense (DOD)

An open-label Phase 1 dose-escalation trial

Design	Phase 1a (in progress)	Phase 1b (in progress)	Phase 1c (enrollment open)	
Participants will receive three vaccinations, each two weeks apart, and will be closely monitored for side effects and immune response	 18-24 Patients who have been treated for TNBC Safety will be monitored Immune Response will be monitored Maximum Tolerated Dose ("MTD") determined 	 Healthy women w/mutations Chosen to undergo prophylactic mastectomy Vaccinate before surgery and evaluate immune response and resected tissue Unique opportunity to garner supplemental data after studying breast tissue to determine if T cells are surveilling the tissue without any visible cancer tumors 	 Additional cohort combining vaccine with Keytruda Patients treated for TNBC Combine Keytruda w/ vaccine to evaluate if there is synergy 	
Cleveland Clinic				

Positive Clinical Results

- Enrollment of women who have had TNBC and have undergone standard of care, but are at risk of recurrence
- 42% of TNBC survivors will relapse within 5 years
- MTD reached
- Data from all vaccinated women tested to date presented at San Antonio Breast Cancer Symposium in December 2023
- 25 patients dosed through March 2024
- No safety concerns
- Immune responses observed at all dose levels
- All patients had some immune response
- Intensity of responses varied with patients



Breast Cancer Vaccine: A Significant Market Opportunity

- Successive to appropriate clinical trials, a prophylactic (preventative) vaccines may be eventually administered to the total eligible population
- Multi-billion Dollar Market opportunity

U.S. (Total Eligible Population)

- Over 3.8 MM breast cancer survivors in the US¹
- Millions more harbor mutations placing them at high risk
- More than 80 million women are currently 40 or older in the U.S. alone
 - Millions more age into this group annually

Outside U.S. (Potential Future Candidates)

- Tens of millions of women who are breast cancer survivors
- Large numbers of women harbor high risk mutations
- Approximately 1.4 billion women are 40 and older outside the U.S.

If this vaccine works as we hope and expect, every woman in the world may be eligible

1) National Cancer Institute.

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Thoughts About Adaptive Phase 2/3 Trial

- Multiple Sites (10-20)- Academic as well as community (including sites that may enable diverse group of participants)
- Roughly 600 TNBC Survivors (final numbers to be determined)
 —Standard of Care (SOC) + Vaccine
 - -SOC only
- 📀 Randomized but not blinded
- Sefficacy based on improvement in invasive disease

-Disease-free survival above SOC

- Sive-year duration but with interim views
- Could extend size of trial to achieve registrational data



Ovarian Cancer Vaccine

18

Novel Target: ED-AMHR2

Also a retired tissue-specific self-protein

- Extracellular domain of the anti-mullerian hormone receptor 2 (ED-AMHR2) is primarily expressed in the ovaries, but disappears as a woman reaches and advances through menopause
- AMHR2 is expressed again in majority of ovarian cancers, as well as some other gynecological malignancies
- If we properly immunize a woman against this protein, after she has reached menopause, we should be able to prevent the occurrence of ovarian cancer
- Majority of ovarian cancer diagnoses occur after menopause
- NCI-PREVENT Program supporting pre-clinical development through IND submission
- If vaccine works as we hope and expect, once approved, every woman in the world past menopause may be a candidate
- Multi-billon dollar market opportunity
- Pre-clinical data published¹

1) Cancer Prev. Res. 2017, 10(11); 612-624

Additional Thoughts on Vaccines

 We may be able to use the Breast Cancer Vaccine in the neo-adjuvant setting

 Animal data shows that the the vaccine will inhibit growth in 4T1 Tumors
 Could we use biopsy and IHC to verify alphalactalbumin expression before utilization?

Ovarian Cancer Vaccine is in Pre-Clinical Development in a collaboration between Cleveland Clinic and NCI

—NCI PREVENT- evaluating peptide and mRNA versions

—PI is Dr. Robert Shumaker at NCI —PI is Dr. CV Rao at U. of Oklahoma

 Can we discover suitable Retired Tissue-Specific Proteins for other broad cancer indications (Lung, Prostate, Colon)



THERAPEUTIC CAR-T PROGRAM

Ovarian Cancer

21

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CAR-T Technology

Background & opportunity

Chimeric Antigen Receptor T cell

CAR- T has made great inroads in B-Cell cancers

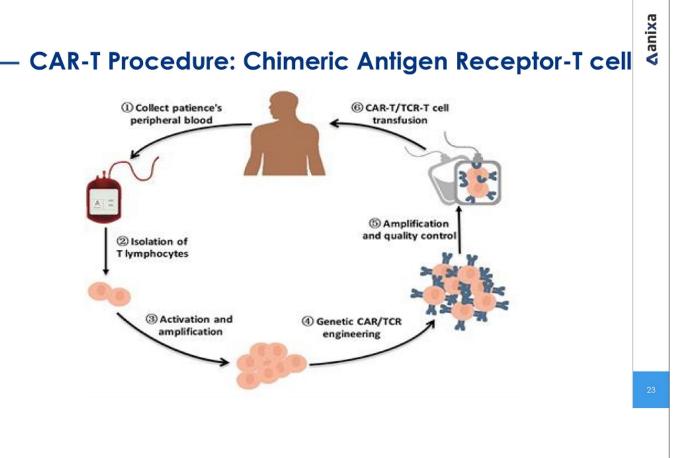
- Durable responses (50-80% of patients)
- Multibillion dollar valuations and big pharma deals
 - Novartis First approved product by FDA
 - Kymriah for Acute Lymphoblastic Leukemia
 (ALL)
 - Second approval for Diffuse large B-cell
 Lymphoma (DLBCL)
 - KITE \$12BB acquisition by GILD
 - JUNO \$9BB acquisition by CELG

Our Opportunity

 Conventional CAR-T has not worked clinically in solid tumors

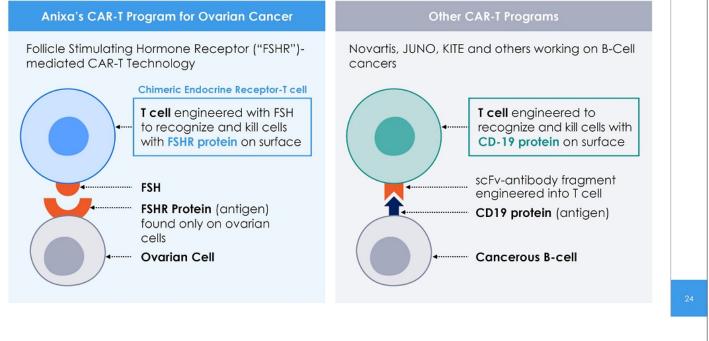
Our Unique Approach

 Anixa has a novel technology for making CAR-T work in multiple solid tumors, beginning with Ovarian Cancer

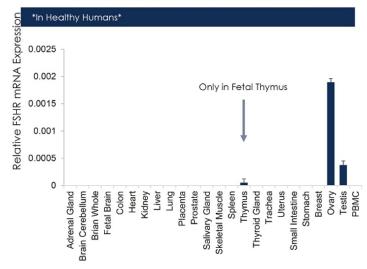


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Anixa's Unique & Targeted CER-T Approach for Solid Tumors



FSHR ONLY Expressed in Ovaries and Testes and Tumor Blood Vessels



Expression of Follicle-Stimulating Hormone Receptor in Tumor Blood Vessels Aurelian Rada, Ph.D., Christophe Pichon, Ph.D., Philippe Camparo, M.D., Marine Antoine, M.D., Yue Molay, M.D., Andrew Cowelard, M.D., Gaelle Fromont, M.D., Wai Thu, Yu Hai, Ph.D., and Nicolae Ghinea, Ph.D. BESTRACT

Ye used immunohistochemical and immunohlotting techniques involving four sepaate FSI-receptor-specific monoclonal antibodies that recognize different FSH reeptor epitopes and in situ hybridization to detect FSH receptor in tissue samples rom patients with a wide range of tumors. Immunoelectron microscopy was used o detect FSH receptor in mouse tumors.

NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

In all 1.500 patients estimition, rain receptor wat expressed by endotricular tents in futures of all gradues, including early 1.17 tamoors. The turnos were located in the prostate, breast, colon, pancrease, urinary bladder, kidney, king, liver, stomach, textis, and ways, lo specimes obtained during surgery performance to remove turnose, the FSH receptor was not expressed in the normal tassens locate Structure through the transmission of the structure collish that expressed FSH receptors were located at the projectory of the turnors, in a stayer that was approximately 10 nm thick this layer entended both into and outside of the turnor. Immunodectron microscopy in micro with an engorith turnors, after perfusions with anti-FSH-receptor antibodies coupled to colloidal gold, showed that the FSH receptor is exposed on the luminal endothetial surface and can bind and internalize circulating figurds.

OWELDISIONS SH receptor is selectively expressed on the surface of the blood vessels of a wide ange of tumors. (Funded by INSER.M.) New York (F, R.Y.; and INSEMU Unitor 353, Willing IFC, P.V. and e-Graden Houppill, Paris (PC-), Tenon Hospital, Paris (MAJ), INSEMU Unite 353-Eq 07, Université Paris-Est, Cetteri (Y.A., MIX,H., NG-), Barajon Hospital, Cleby (A.C.), and Centre Hospitalier Universitaire de Politera, Debises (G.J.) — all in France. Address reprint requests to Dr. Ghines at INSEMU Université Paris-Est, Cetteri (France, er at riolate altreage) servers.

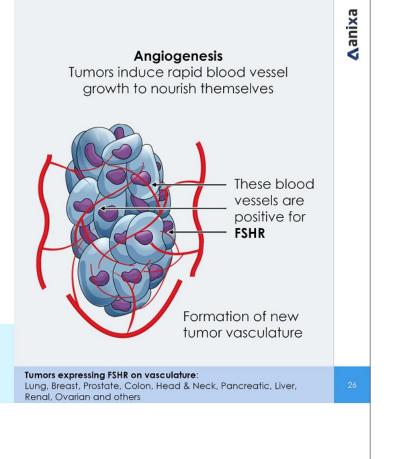
N Engl J Med 2010;363:1621-30. Copylpht © 2010 Mesochusth Medical Society

Our FSHR-Mediated CAR-T Technology

Dual mechanism of action

- Many tumors have blood vessels where FSHR is expressed even though healthy tissue does not show such expression
 - Physiologically, FSHR may be helpful in enabling tumors to create vasculature
 - Elegant target: outside of the tumor margin, FSHR on blood vessels disappears
- Anti-angiogenesis drugs are a multi-billiondollar class of drugs, with Avastin the leader with 2021 sales of \$3 billion

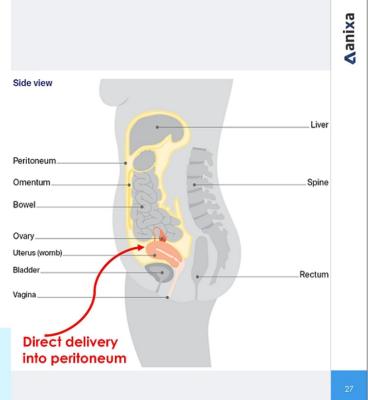
Our FSHR targeted CAR-T may destroy tumor vasculature <u>and</u> starve or shrink the tumor, disrupting FSH from both the inside and outside



Intraperitoneal Delivery (IP) Is Another Key Advantage

- Most, if not all, ovarian cancer lesions remain within the peritoneal cavity and ascites
- By delivering through an IP catheter, the engineered T cells will largely remain in the peritoneal cavity
- Very few, if any, engineered T cells escape into body
 - o Minimizes side effects like CRS
 - Perhaps will enable us to go to much higher concentrations than available with IV administration

We will also test IV delivery, but to date all patients have been treated via IP delivery



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The First Potential Anti-Angiogenic CAR-T Therapy

Exclusive worldwide license from The Wistar Institute

We believe our CER-T approach will work in solid tumors, especially ovarian cancer, where others have failed 1. FSHR is a unique target	Current Phase 1 Trial at Moffitt Cancer Center Treated Three Patients at Subtherapeutic Dose		
 FSH is a natural ligand (not synthetic) Our approach may provide anti-angiogenic synergy, enabling a dual mechanism of action 	 Inected mileer failents at submerapeolic bose (1 x 10⁵ Cells/Kg)- Cohort 1 First patient treated at 3x dose (Cohort 2) Excellent Safety Profile 		
 Intraperitoneal delivery may enable better trafficking to the tumor and fewer side effects 	 Some anecdotal indicators of efficacy: Tumor size was variable and there was indication of cell infiltration into tumor Latest scan showed tumor necrosis 		
We will increase cell concentration by multiples of three in successive cohorts We will also lympho-delete in a future cohort			

We will also evaluate IV delivery



Capital Efficient

Low-cost business model

- Develop programs with partners
 - ✓ Leverage existing infrastructure of partner
 - ✓ Maintain low overhead and cash burn
 - ✓ Allows for multiple orthogonal projects
- Potentially out-license programs to pharma for late-stage clinical development and commercialization
- Burning approximately \$6M/year





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Value-Creating Near-Term Clinical Catalysts

Multiple catalysts over the next 12 months across our clinical pipeline

Program	Phase	H1 2024	H2 2024
Oncology			
Breast Cancer Vaccine	Phase 1a	Additional Phase 1a data release	Final Phase 1a data release
Breast Cancer Vaccine	Phase 1b	Preliminary Phase 1b data release	Additional Phase 1b data release
Breast Cancer Vaccine	Phase 1c	Preliminary Phase 1c data release	Additional Phase 1c data release
Ovarian Cancer CAR-T	Phase 1	Periodic data releases subject to patient enrollment	

Many other potential catalysts as well





Thank you

CONTACT INFORMATION:

Amit Kumar, Ph.D. Chairman & CEO <u>ak@anixa.com</u>

Mike Catelani President, COO & CFO mcatelani@anixa.com



