



NASDAQ:ANIX

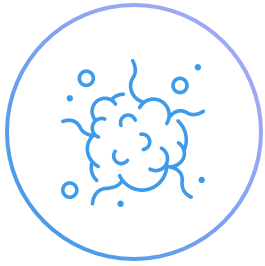
August 2025

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.

Anixa Snapshot

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



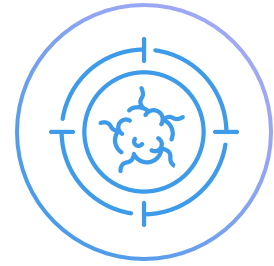
**Robust
Pipeline**



**Strong Clinical
Data**



**Key
Partnerships**



**Significant TAM
Opportunity**



**Strong Balance
Sheet**



**Clean Capital
Table**



**Strong Consistent
Insider Buying**



**Capital Efficient
Business Model**

Capital Efficient Business Model

NASDAQ:ANIX

\$16M Cash and short-term investments
as of April 30, 2025

~\$5-7M Approximate annual cash
burn since 2017

32M Common shares outstanding as of
April 30, 2025



No debt



No warrants, no
preferred stock

- **Develop programs with partners**
 - ✓ **Leverage existing infrastructure of partner**
 - ✓ **Maintain low overhead and cash burn**
 - ✓ **Allows for multiple orthogonal projects**
- **Out-license or sell programs to pharma for late-stage clinical development and commercialization**

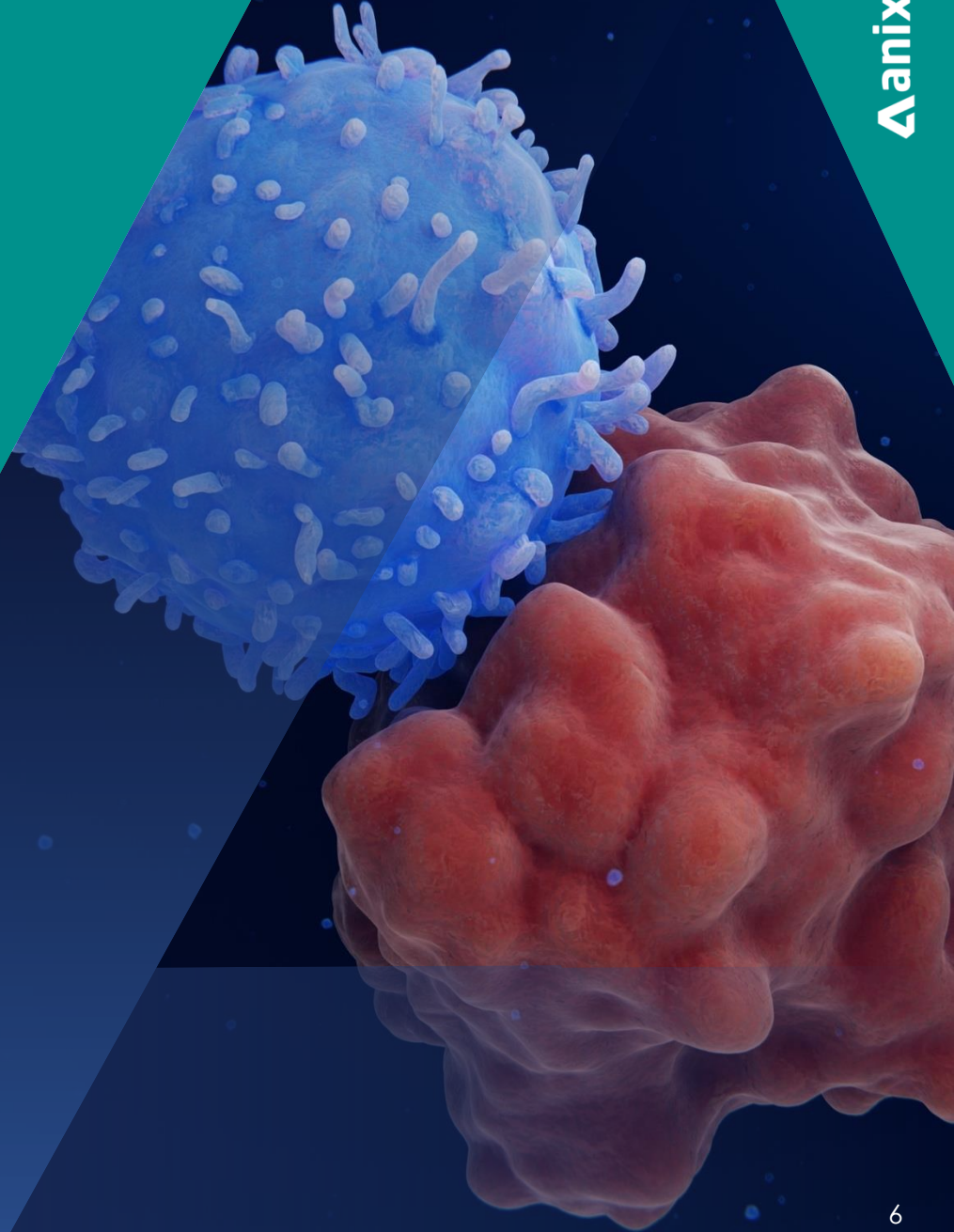
Total Burn Last Fiscal Year was \$7 Million

Clinical Programs & Development Partnerships

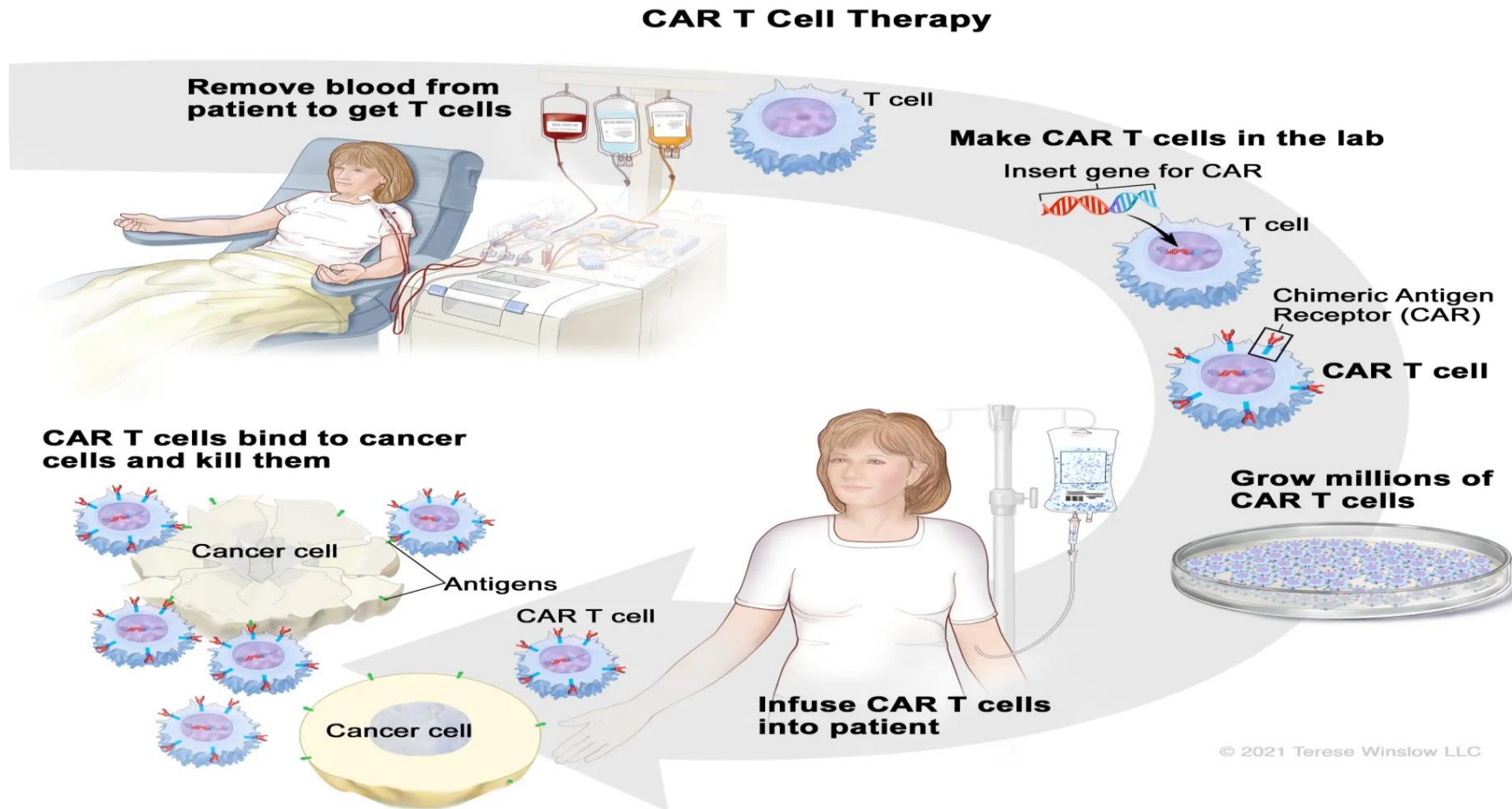
THERAPEUTIC AREA	MECHANISM OF ACTION	INDICATION	GEOGRAPHIC RIGHTS	STAGE	UPCOMING MILESTONES	PARTNERS
Oncology	CAR-T Therapeutic	Ovarian Cancer / Other Solid Tumors	Global	<u>Phase 1</u>	Periodic data releases (enrollment based)	 
Oncology	Vaccine Therapeutic	Breast Cancer	Global	<u>Phase 1</u>	Additional Phase 1a,b,c data releases	 
Oncology	Vaccine	Ovarian Cancer	Global	Pre-clinical	Initiate IND enabling studies	 
Oncology	Vaccine	Lung, Colon, Prostate	Global	R&D	Pre-clinical Data	

CAR-T Program

Ovarian Cancer Therapy



CAR-T Procedure- Chimeric Antigen Receptor T cell



In clinical trial, we are treating terminally ill patients who have failed 2-6 approved therapies

CAR-T Technology

Background & opportunity

Chimeric Antigen Receptor T cell

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

- High Overall Response Rates and Durable responses (50-80% of patients)
- Multi-billion-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

- CAR-T in solid tumors has failed

Our Unique Approach

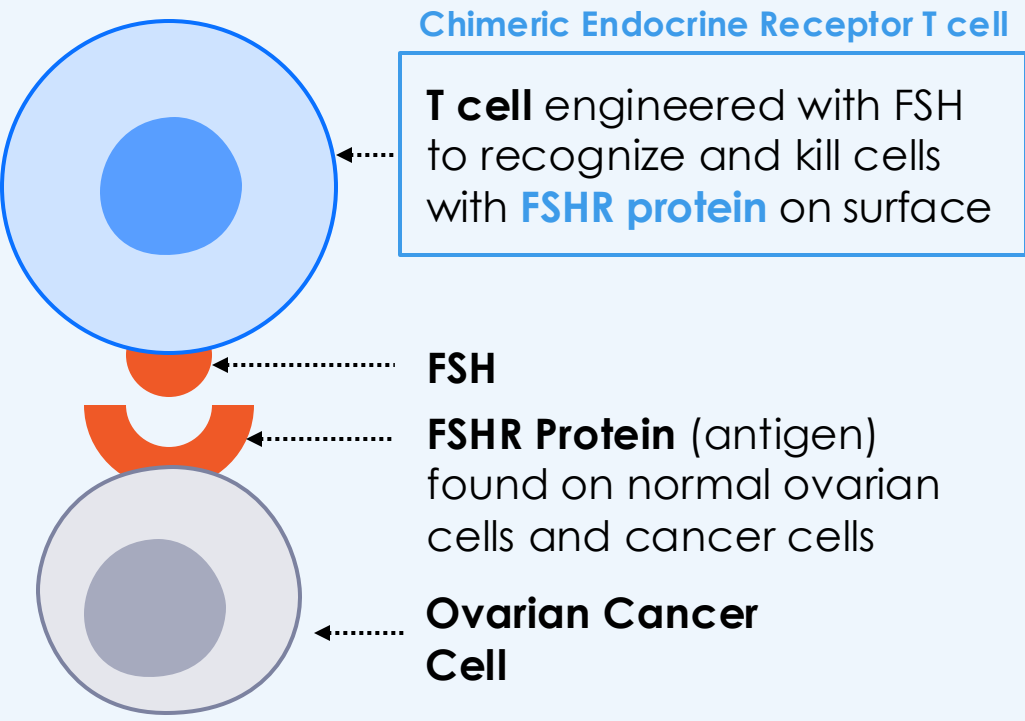
- Anixa's novel tech has three unique attributes:
- Unique target antigen that is primarily found on ovaries in women
- Anti-angiogenesis effect of our T cells
- Intraperitoneal delivery

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

Exclusive worldwide license from The Wistar Institute

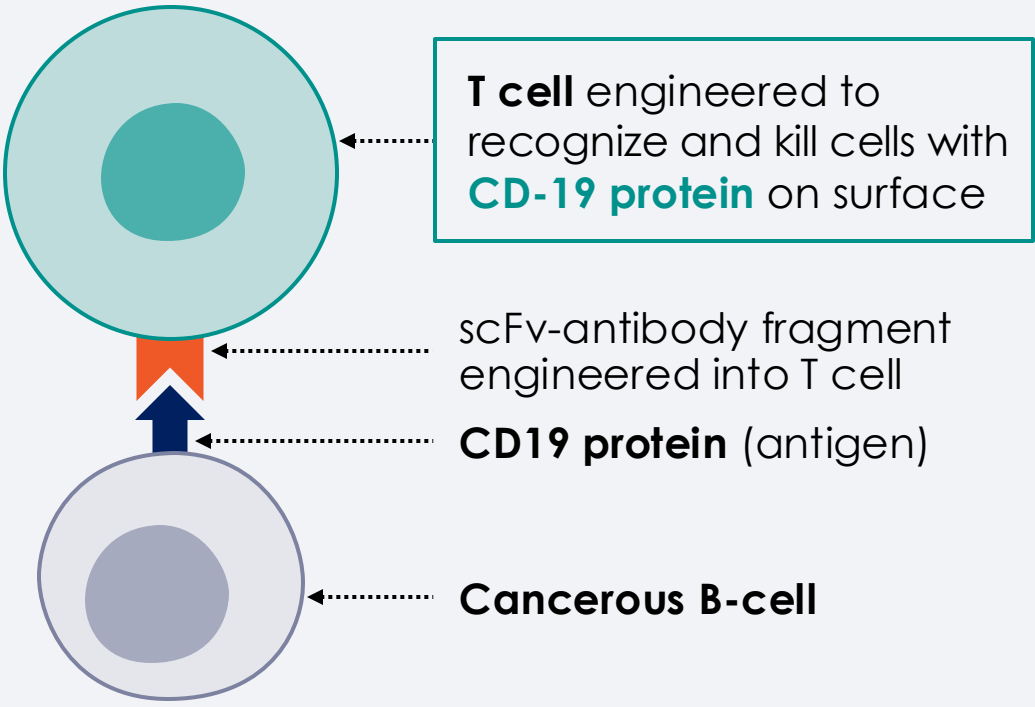
Anixa's CAR-T Program for Ovarian Cancer

Follicle Stimulating Hormone Receptor ("FSHR")-mediated CAR-T Technology



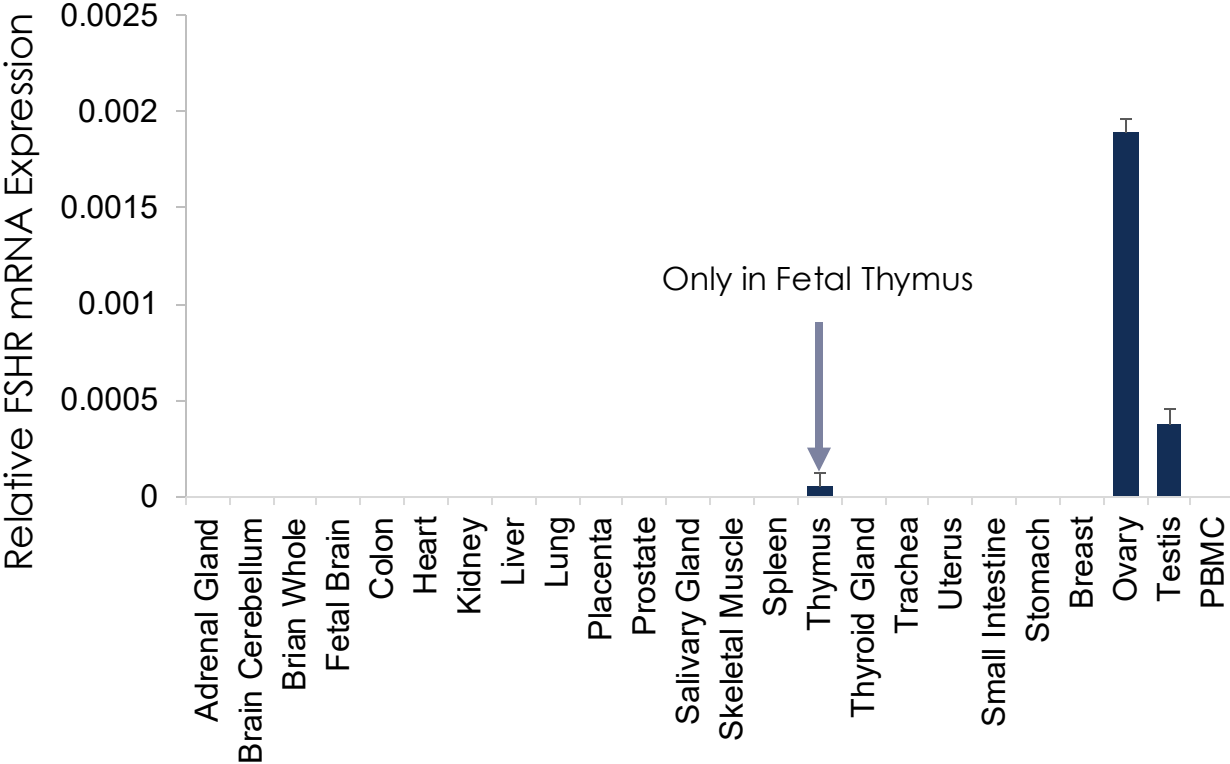
Other CAR-T Programs

Novartis, JUNO, KITE and others working on B-Cell cancers



FSHR ONLY Expressed in Ovaries, Testes and Tumor Blood Vessels

In Healthy Humans



The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Expression of Follicle-Stimulating Hormone Receptor in Tumor Blood Vessels

Aurelian Radu, Ph.D., Christophe Pichon, Ph.D., Philippe Camparo, M.D.,
Martine Antoine, M.D., Yves Allory, M.D., Anne Couvelard, M.D.,
Gaëlle Fromont, M.D., Mai Thu Vu Hai, Ph.D.,
and Nicolae Ghinea, Ph.D.

ABSTRACT

BACKGROUND

In adult humans, the follicle-stimulating hormone (FSH) receptor is expressed only in the **granulosa cells of the ovary and the Sertoli cells of the testis**. It is minimally expressed by the endothelial cells of gonadal blood vessels.

METHODS

We used immunohistochemical and immunoblotting techniques involving four separate FSH-receptor-specific monoclonal antibodies that recognize different FSH receptor epitopes and in situ hybridization to detect FSH receptor in tissue samples from patients with a wide range of tumors. Immunoelectron microscopy was used to detect FSH receptor in mouse tumors.

RESULTS

In all 1336 patients examined, FSH receptor was expressed by endothelial cells in tumors of all grades, including early T1 tumors. The tumors were located in the prostate, breast, colon, pancreas, urinary bladder, kidney, lung, liver, stomach, testis, and ovary. In specimens obtained during surgery performed to remove tumors, the FSH receptor was not expressed in the normal tissues located more than 10 mm from the tumors. The tumor lymphatic vessels did not express FSH receptor. The endothelial cells that expressed FSH receptor were located at the periphery of the tumors in a layer that was approximately 10 mm thick; this layer extended both into and outside of the tumor. Immunoelectron microscopy in mice with xenograft tumors, after perfusion with anti-FSH-receptor antibodies coupled to colloidal gold, showed that the FSH receptor is exposed on the luminal endothelial surface and can bind and internalize circulating ligands.

CONCLUSIONS

FSH receptor is selectively expressed on the surface of the blood vessels of a wide range of tumors. (Funded by INSERM.)

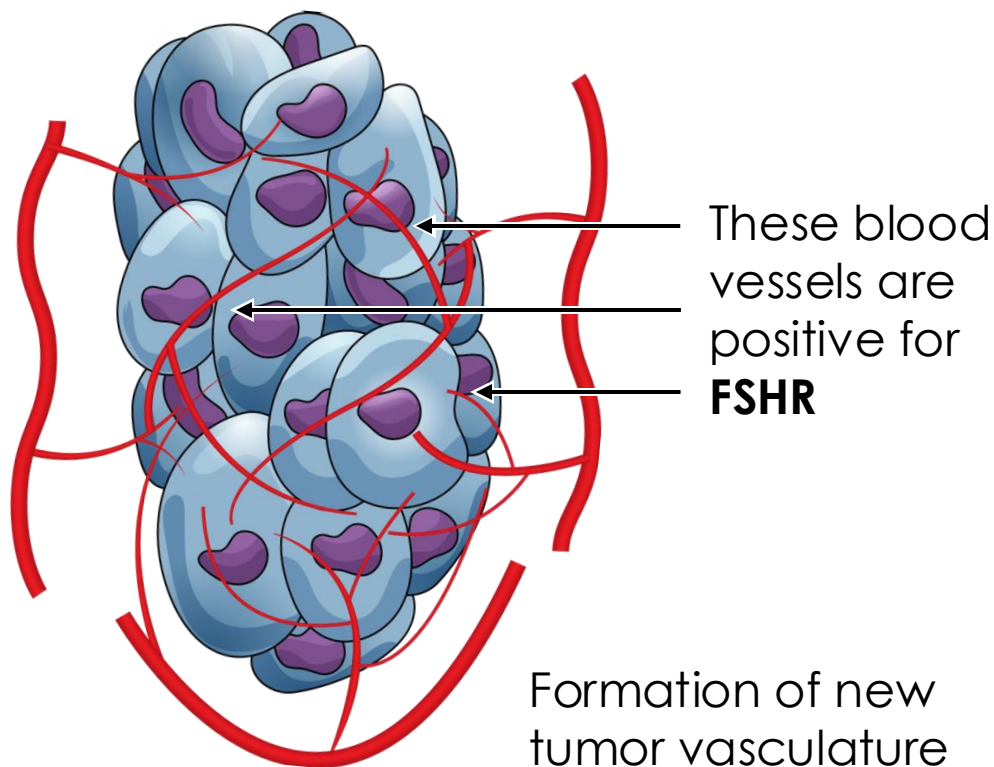
From Mount Sinai School of Medicine, New York (A.R.); and INSERM Unité 753, Villejuif (C.P.), Val-de-Grâce Hospital, Paris (P.C.), Tenon Hospital, Paris (M.A.), INSERM Unité 955-Eq 07, Université Paris-Est, Créteil (Y.A., M.T.V.H., N.G.), Beaujon Hospital, Clichy (A.C.), and Centre Hospitalier Universitaire de Poitiers, Poitiers (G.F.) — all in France. Address reprint requests to Dr. Ghinea at INSERM Unité 955-Eq 07, 8 rue du Général Sarraill, Université Paris-Est, Créteil, France, or at nicolae.ghinea@inserm.fr.

N Engl J Med 2010;363:1621-30.
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Our FSHR-Mediated CAR-T Technology- Dual Mechanism of Action

Angiogenesis

Tumors induce rapid blood vessel growth to nourish themselves



- Many tumors have blood vessels where FSHR is expressed even though healthy tissue does not show such expression
- Anti-angiogenesis drugs are a multi-billion-dollar class of drugs, with Avastin the leader with 2021 sales of \$3 billion
- Enables Dual Mechanism of Action

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

Combination therapy utilizes dual mechanisms of action. Our CAR-T operates a dual mechanism with a single agent

Tumors expressing FSHR on vasculature:

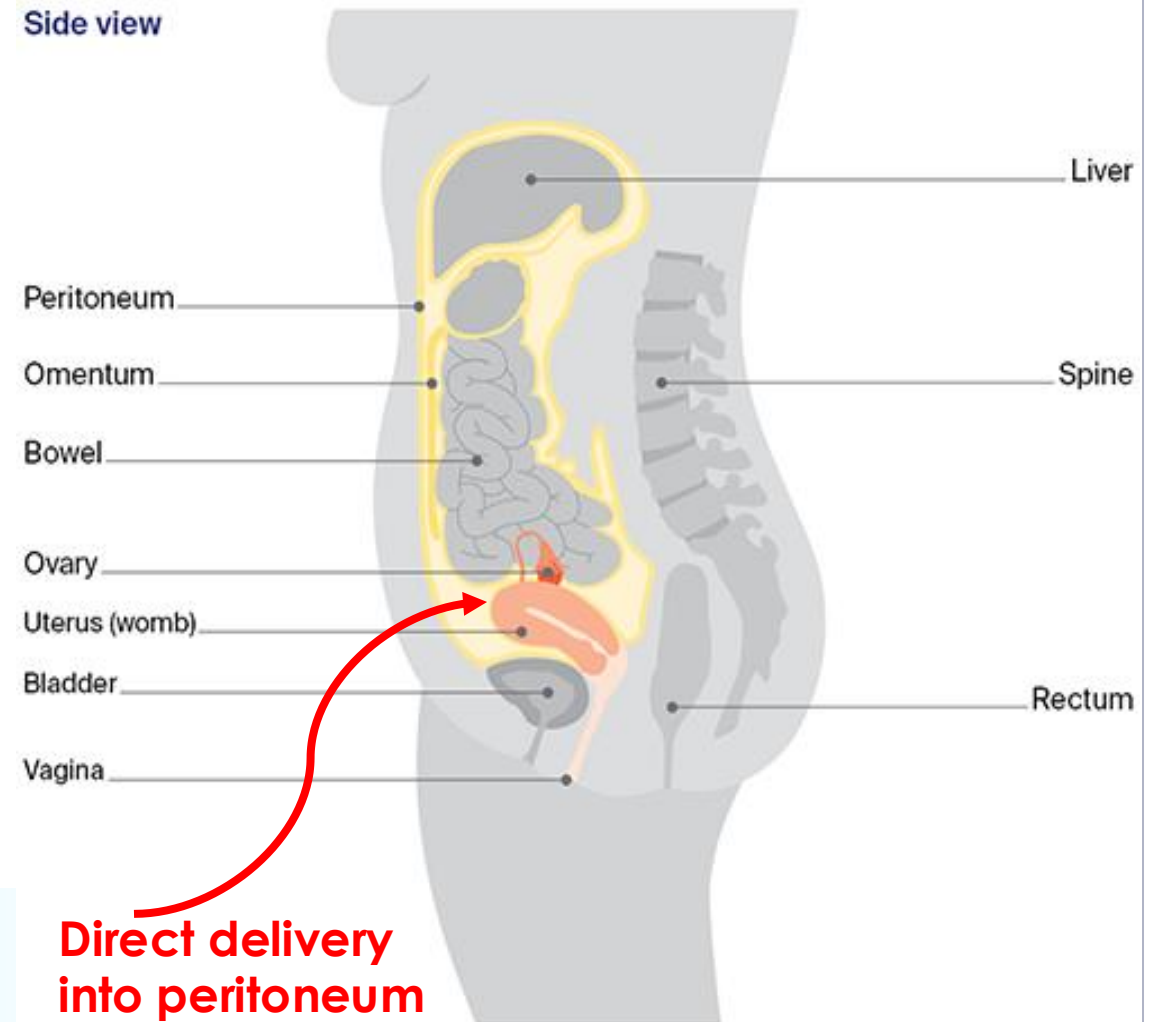
Lung, Breast, Prostate, Colon, Head & Neck, Pancreatic, Liver, Renal, Ovarian and others

Intraperitoneal Delivery (IP) Is Another Key Advantage

- Most, if not all, ovarian cancer lesions remain within the peritoneal cavity
- 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 blood stream
 - Minimizes side effects like CRS
 - Better trafficking to tumor lesions
 - May 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

Side view



Dose-escalation first-in-human clinical trial in recurrent/chemoresistant ovarian Cancer

- PI: R. Wenham, MD Chair, Gynecologic Oncology Program Moffitt Cancer Center
- I.P. vs. I.V.→ Comparative safety and effectiveness

Table 1. Dose-escalation scheme.

Cohort	Dose Level	Cyclophosphamide dose	FSHCER T-cell Dose	Number of Patients
1	1	None	1×10^5 cells/kg	3-6 patients
2	2	None	3×10^5 cells/kg	3-6 patients
3	3	None	1×10^6 cells/kg	3-6 patients
4	4	None	3×10^6 cells/kg	3-6 patients
6	5	None	1×10^7 cells/kg	3-6 patients
5	3	Cyclophosphamide 500 mg/m^2 and fludarabine (30 mg/m^2) $\times$ 3 days	1×10^6 cells/kg	3-6 patients
5b	4	Cyclophosphamide 500 mg/m^2 and fludarabine (30 mg/m^2) $\times$ 3 days	3×10^6 cells/kg	3-6 patients
5c	5	Cyclophosphamide 500 mg/m^2 and fludarabine (30 mg/m^2) $\times$ 3 days	1×10^7 cells/kg	3-6 patients

Current dosage ←

Clinical Results to Date: Excellent Safety Profile and Preliminary Findings of Clinical Activity

- **Current Status- August 2025**
 - 11 patients treated to date, 3 in each of the first 3 dose cohorts, and 2 in the 4th dose cohort (Conventional 3+3 Phase 1 oncology trial design)
 - 10th and 11th patients treated received 3×10^6 CAR + T cells/kg
- **Safety**
 - No dose limiting toxicities (DLT), CRS (cytokine release syndrome) or ICANS (immune effector cell-associated neurotoxicity syndrome)
- **Clinical Activity**
 - One patient alive 27 months since treatment- received 2 CAR T doses, 2nd dose delivered approximately 18 months after 1st dose*
 - One patient alive 13+ months since treatment
 - Several others are living and have surpassed the median overall survival of 3-4 months or showing decreases in the CA 125 biomarker

*FDA has approved a second CAR T dose if warranted for patients in trial

The preliminary results on these terminally ill patients is very promising and has exceeded our expectations for the low doses

Vaccine Program

Breast Cancer

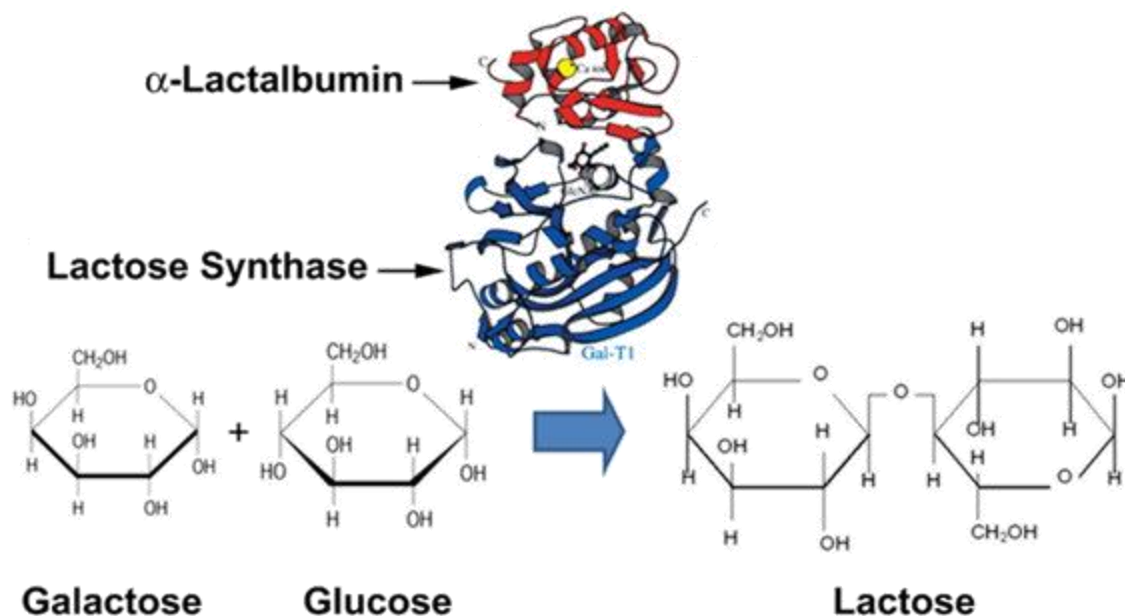


Breast Cancer Vaccine: Retired Tissue-Specific Protein

Exclusive worldwide license from Cleveland Clinic

Retired Tissue-Specific Protein

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



α-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

Proof of Concept* -Published in 2012

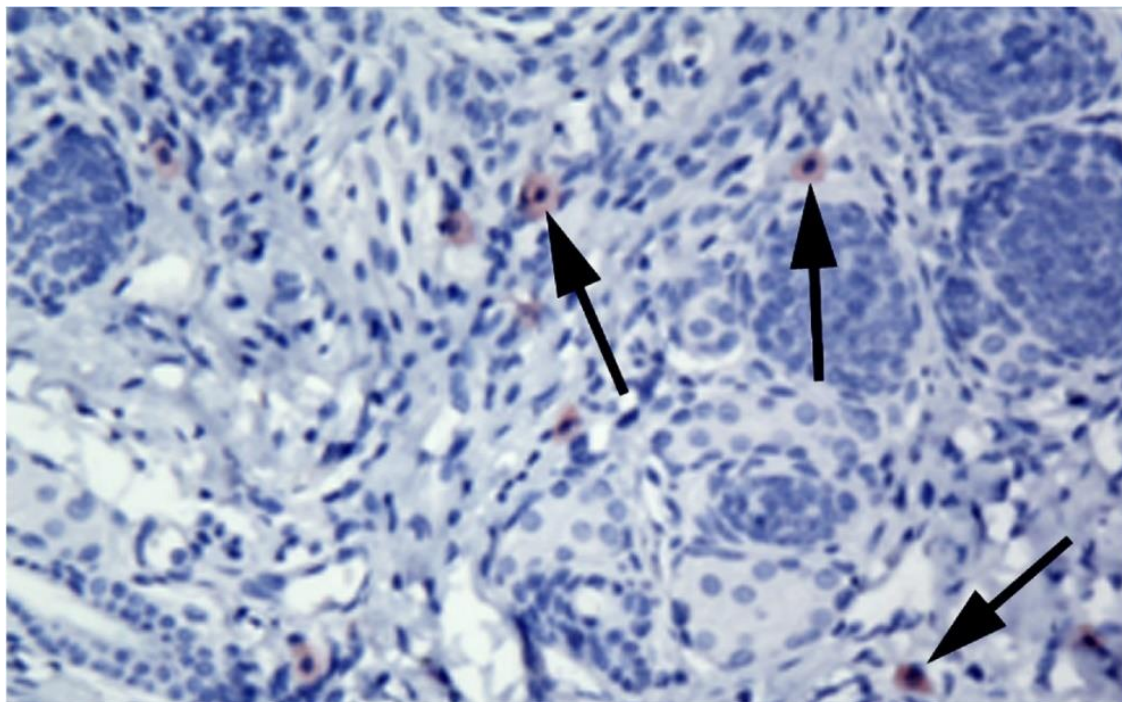


- ✓ After vaccination mice were mated and allowed to have a litter.
- ✓ The pups were perfectly normal at birth.
- ✓ **Mothers were unable to produce milk.**

This proves that vaccination targeting α -lactalbumin enables the immune system to destroy all cells producing that protein.

Pre-Clinical Studies: Vaccination Prevents Breast Cancer

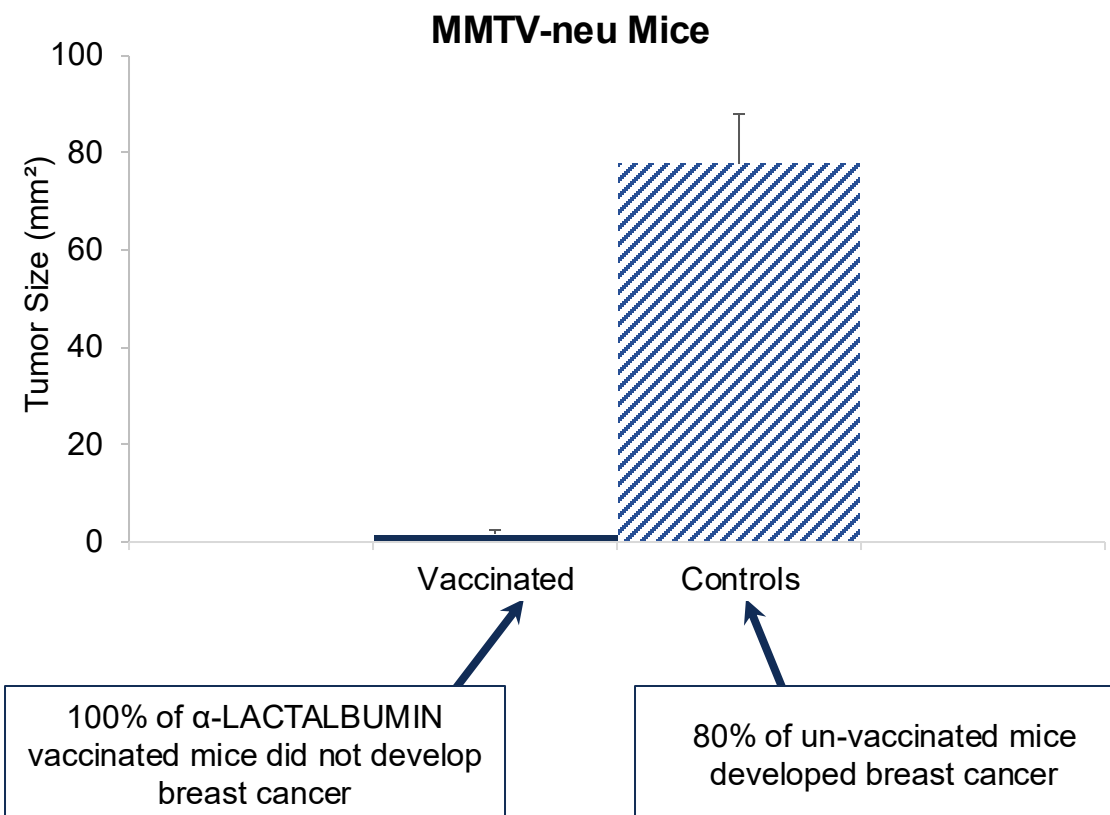
Well-Tolerated



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

Data published: Cancers, 2016, 8, 56.

Robust Pre-Clinical Response



Phase 1 Trial

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

An open-label Phase 1 dose-escalation trial

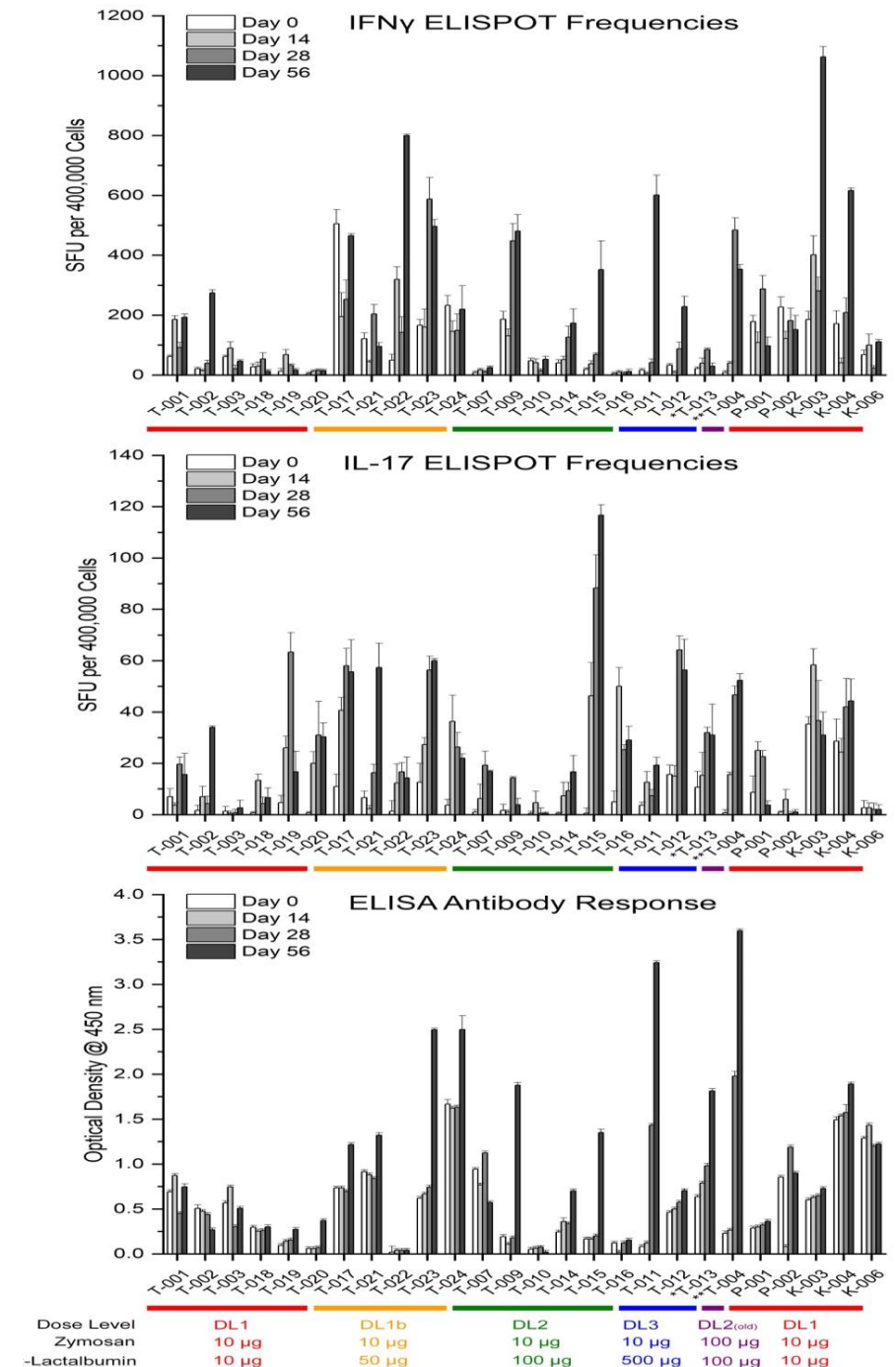
Design	Cohort 1a (Recurrence Group)	Cohort 1b (Prevention Group)	Cohort 1c (Treatment Group)
Participants will receive three vaccinations, each two weeks apart, and will be closely monitored for side effects and immune response	24-36 Patients who have been treated for TNBC - Safety will be monitored - 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



Positive Phase 1 Clinical Results

- 35 patients dosed through June 2025
 - TNBC patients who have undergone standard of care, but are at risk of recurrence (40-80% recur in 5 years)— [cohort 1a](#)
 - Genetic risk patients choosing prophylactic mastectomies— [cohort 1b](#)
 - Patients with residual disease taking Keytruda— [cohort 1c](#)
- Key Findings Presented on November 8, 2024 at Society of Immunotherapy of Cancer (SITC)
 - MTD reached
 - No safety concerns
 - Immune responses observed at all dose levels
 - 70% had protocol specified immune response
 - Intensity of other responses varied
 - Keytruda Plus Vaccine exhibited no additional adverse side effects, enabling combination use
- Phase 1 Status
 - Enrollment complete
 - Final Patient Visits will be in August 2025

First 26 Patients



Phase 2 Breast Cancer Vaccine Trial

Near Term- Therapeutic Approach

Phase 2 trial in neo-adjuvant setting – before surgery

- Faster evaluation of efficacy
- Multiple types of Breast Cancer
- Faster data, enabling earlier alliance with big Pharma

Two Arms

- Standard of Care + Vaccine
- Standard of Care only (chemotherapy and/or immunotherapy, such as Keytruda)

Breast Cancer Vaccine Development Plan and Market Opportunity

Clinical Trials and Launches will occur in stages

- **Neo-Adjuvant Therapeutic treatment**
- **Adjuvant-therapeutic treatment**
- **Recurrence Prevention**
- **Prophylactic Vaccination-**
 - **Cancer free individuals for primary prevention**

Market Opportunity

- 2023- \$38.35 billion¹
- 2030- \$89.67 billion, projected CAGR of 12.9%¹

Market Opportunity

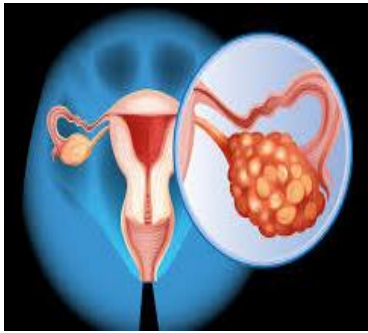
- Over 3.8 MM breast cancer survivors in the U.S.²
 - Tens of millions outside of U.S.
- Millions harbor mutations creating high risk
- More than 80 million women are currently 40 or older in the U.S.
 - 1.4 billion outside the U.S.
 - Millions more age into this group annually

Pre-Clinical Pipeline Ovarian, Lung, Prostate, Colon

Collaboration with Cleveland Clinic and the National Cancer Institute

Driven by current promising data from Breast Cancer Vaccine Clinical Trial

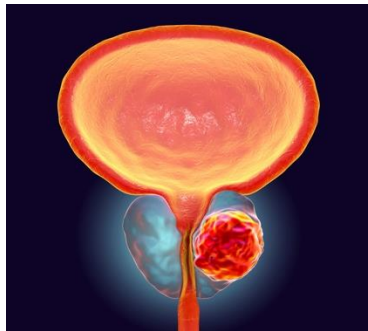
Maintain our Lead in Prophylactic Cancer Vaccine Development



Ovarian



Lung



Prostate



Colon

Development of Additional Cancer Vaccines

- Bioinformatic analysis utilizing advanced AI and supercomputing capabilities
- Pre-clinical studies to verify and validate antigen targets
- Animal studies to establish proof of concept
- Clinical Development



Thank you

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