

OTCQB:LADX CORPORATE OVERVIEW July 2023 Non-Confidential

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Management and Board



Stephen Snowdy, PhD CEO

- Recently joined LadRx
- PhD Neurobiology University of North Carolina
- Full-cycle experience: napkin drawings to global product launch
- 20 years of experience in medical executive management
 - Venture capital
 - Medical devices
 - Pharma
 - IPO
 - Public company management



Gilad Gordon, MD R&D/Regulatory Consultant

- Oncology development expert
- 30 years experience developing cancer treatments
- Directly responsible for 50
 INDs, hundreds of clinical trials



John Caloz CFO

- 30+ years of CFO experience in life sciences sector
- Occulogix, IRIS Int'l, Synarc, Phoenix Int'l Life Sciences

Board of Directors

• Jennifer Simpson, PhD

LadRx Chair of the Board. CEO of Panbela Therapeutics. Former CEO of Delcath, Oncology Lead at Imclone, Product Director Oncology Marketing at Ortho Biotech

• Joel Caldwell

Chair of Audit Committee. 30 years of experience in tax, finance, and auditing.

Cary J. Claiborne

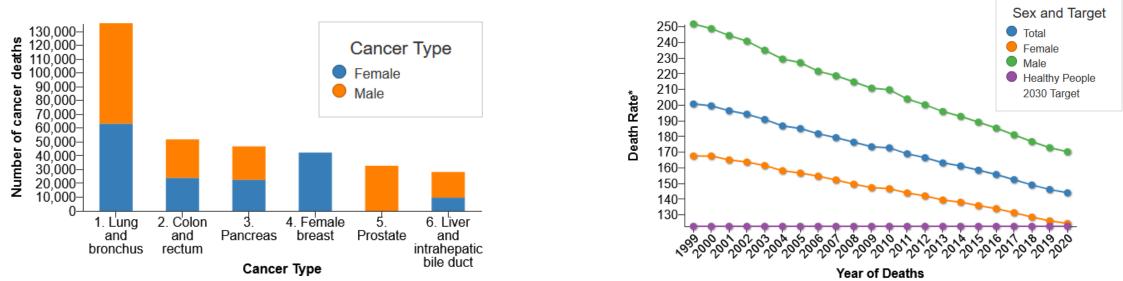
Chair of the Compensation Committee. CEO of Adial Pharmaceuticals Inc. Former CEO of Prosperity Capital Management, LLC.



Despite Progress, Cancer is a Massive Burden

In 2019, cancer claimed over 10 million lives worldwide¹

Leading attributable causes (approx. half of cancers are attributable) are smoking, alcohol use, and high BMI¹



Cancer is the second leading cause of death in the US, behind heart disease²

Graphs Adapted from Center for Disease Control, "An Update on Cancer in the United States"

- 1. "The Global Burden of Cancer...", The Lancet. August 20, 2022. 400:10352. 563-591
- 2. Center for Disease Control, "An Update on Cancer in the United States"

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Investment Highlights

LadRx has developed elegant tumor targeting and release molecules called LADR that are based on small molecular entities (no complex antibodies or nanoparticles) allowing for higher dosing and lower off-target tox



- > First LADR drug Aldoxorubicin was licensed to Immunity Bio and is in human trial for pancreatic cancer
- Next-gen LADR-based drugs are nearing readiness for IND
- Small and virtual to minimize cash use
- > Strong, broad, and global patent portfolio



LADR=Linker-Activated Drug Release

LADR-based drugs take advantage of circulating albumin as trojan horse:

- Major source of amino acids for tumors*
- Tumors use as carrier for metabolites, hormones, nutrients*
- Undergoes macropinocytosis*
- Accumulates in tumors due to EPR*
- Long half life*

LADR:

Ultra High Potency Drug Payload

- Payloads are effective in the nanomolar range
- Similar to those used for approved ADCs (auristatins and maytansinoids)

Cleavable Linker

- Novel linker keeps the highly potent drug payload inactive until the conjugate reaches the tumor
- The linker is then cleaved when exposed to lower pH in tumor and intracellular environments

Targeting

- Ensures rapid and selective binding to circulating serum albumin
- Serum albumin transports the LADR[™] drug to the tumor

* Kratz, F. Albumin as a drug carrier. J Cont Rel (2008) 132:171-183



Aldoxorubicin: 1st Gen LADR-Based Drug Has Proven Higher Dosing with Improved Safety in Human Trials Compared to Native Doxorubicin

Doxorubicin maximum dosing is 75 mg/m², limited mostly by cardiotoxicity¹ When attached to LADR backbone, doxorubicin has been dosed in humans at 250 equiv mg/m² (3.3x higher), with lower toxicity, including lower cardiotoxicity²

- LADR allows for 3X higher dosing or more of doxorubicin
- Aldoxorubicin crosses the Blood-Brain Barrier
- Tumor targeting and release with the simplicity of a small molecule
- In the case of next-gen LADRs 7-10, maximum doses are ~10 higher than that of non-LADR versions

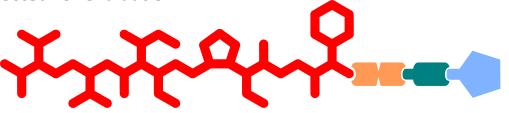
¹accessdata.fda.gov

²Gong, J, Hendifar, A. et al. Aldoxorubicin: A tumor-targeted doxorubicin conjugate for sarcomas. Drug Dev Des Ther (2018) 12:777-786



Next-Gen LADRs: LADR7, 8, 9, 10

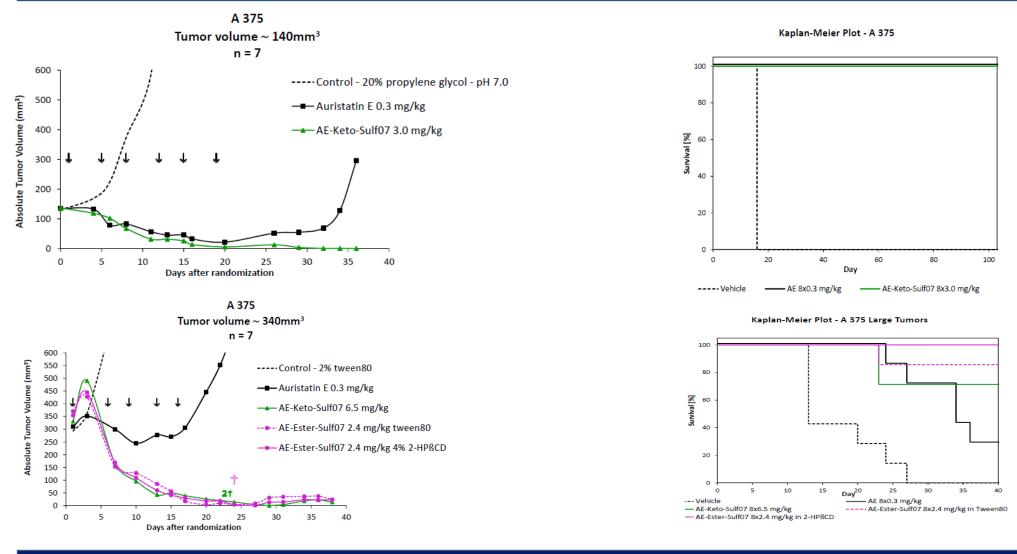
- High-throughput screening yielded four compounds selected for evaluation:
 - LADR 7: Auristatin-E with Ketone Linker
 - LADR 8: Auristatin-E with Ester Linker
 - LADR 9: Maytansine with Ketone Linker
 - LADR 10: Maytansine with Ester Linker



- Auristatins and Maytansinoids are highly potent microtubulin inhibitors with IC50 values in the low nanomolar range. They are too toxic to use as untargeted drugs with systemic exposure.
- Auristatin-E and Maytansine are currently approved in the form of ADCs as Adcetris (\$700m sales in 2021, SeaGen) and Kadcyla (\$2b sales in 2021, Genentech)
 - Adcetris: Hodgkin Lymphoma 3rd line+ or failed ASCT, Systemic Anaplastic Large Cell Lymphoma 2nd line+
 - Kadcyla: HER2 Positive MBC 2nd Line+
 - LADR system capable of delivery many times as much chemotoxin compared to antibodies

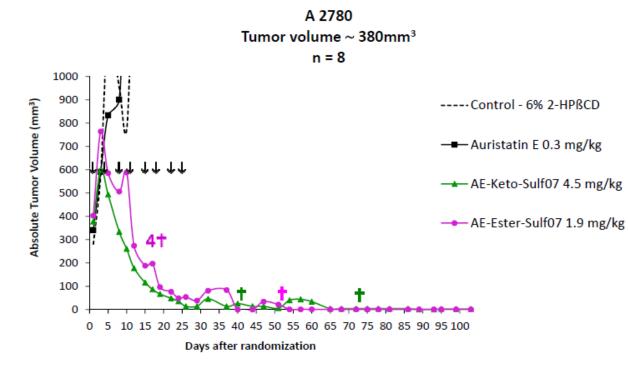


LADRs 7 and 8 are powerful anti-cancer drugs in multiple PDX/CDX cancer models: Melanoma

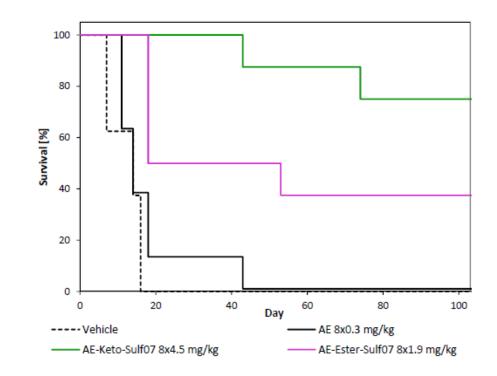




LADRs 7 and 8 are powerful anti-cancer drugs in multiple PDX/CDX cancer models: Ovarian

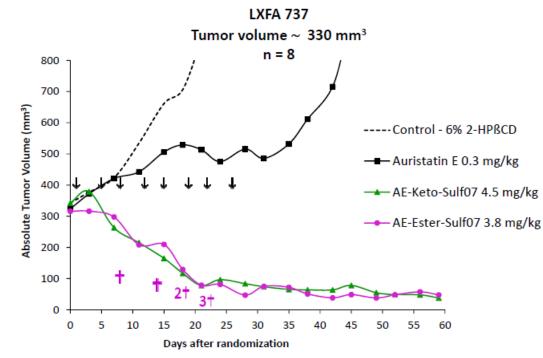


Kaplan-Meier Plot - A2780 - Large Tumors

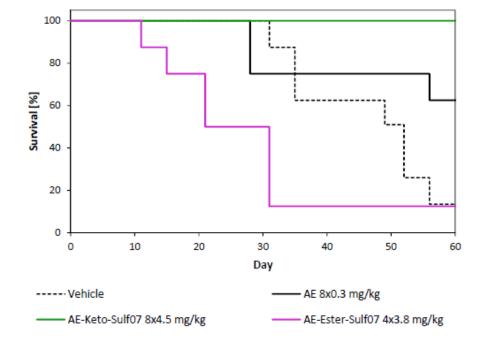




LADRs 7 and 8 are powerful anti-cancer drugs in multiple PDX/CDX cancer models: Non-Small Cell Lung Cancer



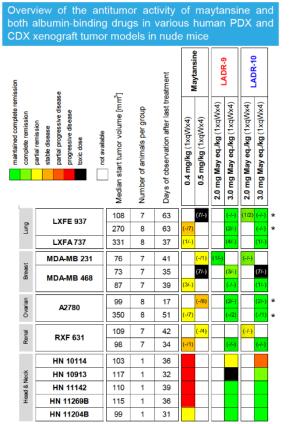
Kaplan-Meier Plot - LXFA 737 Large Tumors





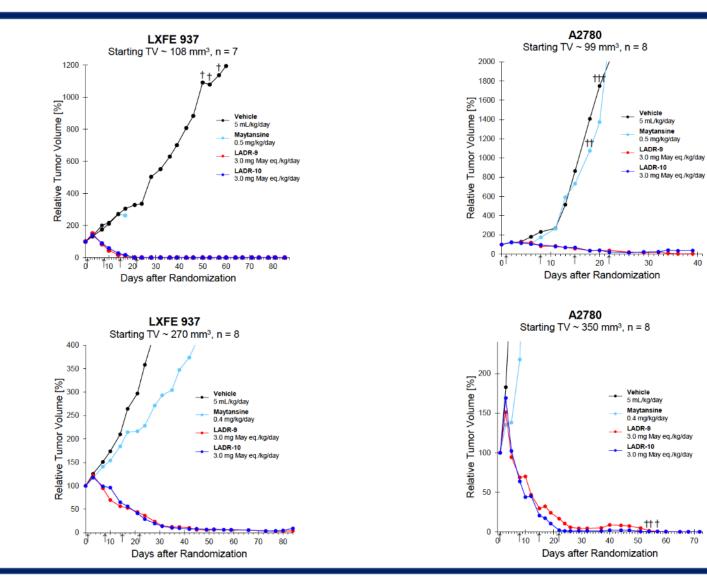


... As are LADRs 9 and 10



The experiments were evaluated based on the T/C values (by LOCF; MCR <5 %, CR 5-10 %, PR >10-50 %, SD >50-75 %,>75-125 % PP, >125 % PD). The compounds were administered i.v. in a solution of 20 % propylene glycol in 10 mM sodium phosphate buffer (pH 7.0). The pattern fill (dots) indicates a regrowth of tumors towards the end of the experiment. In parentheses, the number of deaths related to toxicity and tumor growth, respectively, are show. Teanots the experiments how in in deatil.

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All Four LADR Candidates Meet Initial Development Criteria

	Auristatin LADR™s (LADR-7 and LADR-8)	Maytansinoid LADR™s (LADR- 9 and LADR-10)
Selective Binding to Albumin and Stable in Plasma	\checkmark	\checkmark
Payload Releases at pH 4	\checkmark	\checkmark
Robust Anti-Tumor Activity in Multiple Tumor Types	\checkmark	\checkmark
Durable Responses Averaged 60–90 Days	\checkmark	\checkmark
Demonstrated Superiority Over Control Group With Parent Compounds	\checkmark	\checkmark
Highly Effective Even in Large Tumor Models	\checkmark	\checkmark
Initial Toxicology Results do not Preclude Continued Development	\checkmark	\checkmark



Next-gen LADR Progress Towards IND

- ✓ Stability in plasma (mouse, rat, dog, monkey, human)
- ✓ pH-dependent release
- ✓ Rat and mouse MTD
- ✓ In-vitro efficacy
- ✓ In-vivo efficacy (small and large tumor PDX and CDX)
- ✓ Non-GLP rodent tox
- ✓ CMC

GLP Mfg Run

GLP rodent tox

Time to IND 12-18 months from project funding



In June 2023, LadRx entered an agreement with Xoma, Inc. in which economic rights to arimoclomol and aldoxorubicin were transferred to Xoma, Inc.

In exchange for the economic rights to arimoclomol and aldoxorubicin, LadRx received or will receive:

\$5M gross proceeds upon closing
\$1M upon acceptance by FDA of arimoclomol NDA (possibly Q4_2023)
\$1M upon first commercial sale of arimoclomol (possibly FY2024)
\$4M upon NDA approval by FDA of aldoxorubicin

Xoma will be responsible for future licensing and milestone obligations owed by LadRx Related to arimoclomol and aldoxorubicin



Summary

LadRx has developed an efficient delivery platform for chemotherapeutic agents that takes advantage of the concentration of albumin in solid tumors. Being small molecules, the agents are easier/cheaper to manufacture than macromolecules, confer solubility, and cross the blood-brain barrier.

LadRx has also developed highly potent chemotherapeutic agents to couple with its LADR delivery platform, and demonstrated high potency and safety in multiple in-vitro and in-vivo cancer models

The first-gen LADR asset, Aldoxorubicin, has demonstrated proof-of-concept of the LADR platform in humans; this LADR form of doxorubicin is delivered to human subjects at 3X the dosing used for native doxorubicin, with decreased toxicity

The next-gen LADR product LADR-7 is close to readiness for IND

