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 Repor	rt (Date of earliest event reported) Jui	ne 25, 2024	
	THERAPEUT ct name of registrant as specified in its charte		
Delaware (State or other jurisdiction of incorporation)	001-38537 (Commission File Number)	ssion (IRS Employer	
490 Arsenal Way, Suite 210 Watertown, MA (Address of principal executive offices)	02472 (Zip Code)	
,	(339) 666-3320 (Registrant's telephone number, including area code)		
Check the appropriate box below if the Form 8-K filin following provisions (see General Instruction A.2.):	g is intended to simultaneously satisfy the filing	obligation of the registrant under any of the	
☐ Written communications pursuant to Rule 425 u	nder the Securities Act (17 CFR 230.425)		
☐ Soliciting material pursuant to Rule 14a-12 under	er the Exchange Act (17 CFR 240.14a-12)		
☐ Pre-commencement communications pursuant to	Rule 14d-2(b) under the Exchange Act (17 CF)	R 240.14d-2(b))	
☐ Pre-commencement communications pursuant to	Rule 13e-4(c) under the Exchange Act (17 CFI	R 240.13e-4(c))	
Securities registered pursuant to Section 12(b) of the A	Act:		
Title of each class	Trading Symbol	Name of each exchange on which registered	
Common Stock, par value \$0.0001 per share	TECX	Nasdaq Global Market	
Indicate by check mark whether the registrant is an em		of the Securities Act of 1933 (§230.405 of this	

Emerging growth company \square

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.

Tectonic Therapeutic, Inc. (the "Company") has updated its corporate presentation for use in meetings with investors, analysts and others. A copy of the updated corporate presentation is furnished as Exhibit 99.1 to this Current Report on Form 8-K. Investors may access the presentation by visiting the "Events & Presentations" section of the Company's investor website at https://investors.tectonictx.com.

The information furnished under this Item 7.01, including Exhibit 99.1, shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934 (the "Exchange Act") or subject to the liabilities of that section, nor shall it be deemed to be incorporated by reference into any of the Company's filings with the Securities and Exchange Commission, regardless of any general incorporation language in such a filing.

Item 8.01 Other Events.

Proposed TX000045 ("TX45") Phase 2 Trial Design

As previously disclosed, the Company plans to initiate its Phase 2 randomized, placebo-controlled, double-blind proof-of-concept clinical trial to evaluate TX45 in patients with Group 2 Pulmonary Hypertension ("PH") in the setting of Heart Failure with Preserved Ejection Fraction ("HFpEF") in the second half of 2024.

The Phase 2 clinical trial is expected to be conducted globally, including at clinical trial sites in the United States, Europe, Eastern Europe and Australia. This trial is designed to enrich for patients with an increased pulmonary vascular resistance of greater than 3 on baseline right heart catheterization with the goal of evaluating efficacy in both Combined pre-and post-capillary Pulmonary Hypertension as well as the whole Group 2 PH population with HFpEF. The Company currently expects that approximately 180 subjects will enter the trial. Each subject will be randomized to one of two treatment arms or a placebo arm. The treatment period will last for 24 weeks and there will be a follow-up evaluation 8 weeks after the last dose.

Forward-Looking Statements

Statements contained in this Current Report on Form 8-K regarding matters that are not historical facts are "forward looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. The Company may, in some cases, use terms such as "predicts," "believes," "potential," "proposed," "continue," "designed," "estimates," "anticipates," "expects," "plans," "intends," "may," "could," "might," "will," "should" or other words or expressions referencing future events, conditions or circumstances that convey uncertainty of future events or outcomes to identify these forward-looking statements. Such forward-looking statements include but are not limited to, expectations regarding the initiation, design, protocol and timing of the Company's proposed Phase 2 clinical trial of Group 2 PH in the setting of HFpEF. Because such statements are subject to risks and uncertainties, actual results may differ materially from those expressed or implied by such forward-looking statements. Factors that contribute to the uncertain nature of the forward-looking statements include potential unforeseen events during clinical trials could cause delays or other adverse consequences; risks relating to the regulatory approval process; success in preclinical testing and earlier clinical trials does not ensure that later clinical trials will generate the same results or otherwise provide adequate data to demonstrate the efficacy and safety of a product candidate; the Company's product candidates may cause serious adverse side effects; the Company's reliance on third parties, including for the manufacture of materials for its research programs, preclinical and clinical studies; the ability of the Company's need for additional funding, which may not be available; the impact of macroeconomic conditions, including the conflict in Ukraine and the conflict in the Middle East, heightened inflation and uncertain credit and financial markets, on the Company's business, clinical trials and financial position; changes in the regulatory environment; the uncertainties and timing of the regulatory approval process; and unexpected litigation or other disputes. Other factors that may cause the Company's actual results to differ from those expressed or implied in the forward-looking statements in this press release are identified under the heading "Risk Factors" in the final prospectus on Form 424(b)(3) filed by the Company with the SEC on May 3, 2024, and in other filings that the Company makes and will make with the SEC in the future. All forward-looking statements contained in this press release speak only as of the date on which they were made and are based on management's assumptions and estimates as of such date. The Company undertakes no obligation to update any forward-looking statements, whether as a result of the receipt of new information, the occurrence of future events or otherwise, except as required by law.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits

Exhibit No. Description

99.1 <u>Corporate Presentation dated June 2024.</u>

104 Cover Page Interactive Data File (formatted as Inline XBRL).

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.

Date: June 25, 2024

TECTONIC THERAPEUTIC, INC.

By: /s/ Daniel Lochner

Daniel Lochner Chief Financial Officer

Transforming and Innovating the Discovery and Development of Novel, Class Leading GPCR-Targeted Therapies

June 2024



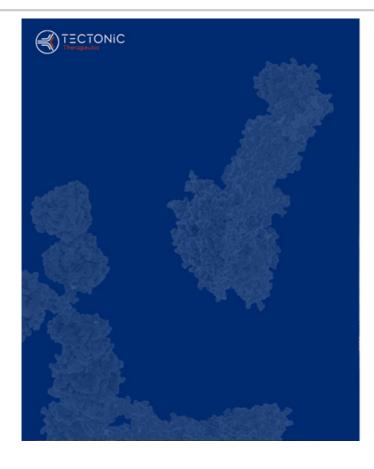
DISCLAIMER

Statements contained in this presentation regarding matters that are not historical facts are "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995, as amended. Words such as "anticipates," "believes," "expects," "intends," "plans," "potential," "projects," "would" and "future" or similar expressions are intended to identify forward-looking statements. Each of these forward-looking statements involves substantial risks and uncertainties that could cause actual results to differ significantly from those expressed or implied by such forward-looking statements. Forward-looking statements contained in this presentation include, but are not limited to, statements regarding: the design, objectives, initiation, timing, progress and results of current and future preclinical studies and clinical trials of our product candidates, including the ongoing Phase 1a/b clinical trial for TX45, in Group 2 Pulmonary Hypertension and initiation of proposed Phase 2 clinical trial; candidate selection for our second program in HHT; the expected timing of program updates and data disclosures; the timing of filing INDs and other regulatory documents; the timing and likelihood of seeking regulatory approval for our product candidates including TX45; the competitive landscape for our product candidates; our ability to identify and develop additional product candidates; and our estimates regarding expenses, future revenue, capital requirements, cash runway and needs for additional financing.

These forward-looking statements reflect our current beliefs and expectations. Many factors may cause differences between current expectations and actual results, including the early stage of our development efforts; success in preclinical testing and earlier clinical trials does not ensure that later clinical trials will generate the same results or otherwise provide adequate data to demonstrate the efficacy and safety of a product candidates; clinical site activation rates or clinical trial enrollment rates that are lower than expected; changes in expected or existing competition; changes in the regulatory environment; the uncertainties and timing of the regulatory approval process; the impact of macroeconomic conditions, including the conflict in Ukraine and the conflict in the Middle East, heightened inflation and uncertain credit and financial markets, on our business, clinical trials and financial position; and unexpected litigation or other disputes. These and other risks are described more fully in our filings with the Securities and Exchange Commission ("SEC"), including the risks detailed in the prospectus filed with the SEC pursuant to Rule 424(b)(3) on May 3, 2024, and other documents we subsequently filed with or furnished to the SEC. All forward-looking statements contained in this presentation speak only as of the date on which they were made. Except as required by law, we assume no obligation to update any forward-looking statements contained herein to reflect any change in expectations, even as new information becomes available.

This presentation also contains estimates and other statistical data made by independent parties and by us relating to market size and growth and other data about our industry. This data involves a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates. Neither we nor any other person makes any representation as to the accuracy or completeness of such data or undertakes any obligation to update such data after the date of this presentation. In addition, projections, assumptions and estimates of our future performance and the future performance of the markets in which we operate are necessarily subject to a high degree of uncertainty and risk.





Agenda

- I. Company Overview
- II. GEODe™ Platform
- III. TX45 Relaxin in Group 2 Pulmonary Hypertension
 - i. Overview of Target and Indication
 - ii. Patient Journey
 - iii. Clinical Data
 - iv. Preclinical Data
 - v. Clinical Program
- IV. HHT Program
- V. Summary

Tectonic Therapeutic – Transforming the Discovery of Novel GPCR-Targeted Therapies, Innovating in Their Development

Validated GEODe™ Platform

- Validated platform to discover and optimize biologics that target GPCRs
- Prioritizing high value GPCR targets, where small molecules are not the right modality

Phase 1 Best-In-Class Relaxin Agonist for PH, First-In-Class HHT Program

- First two assets address indications with no approved therapy
 - 1. RXFP1 agonist potential therapy for Group 2 PH1 in HFpEF2
 - >600,000 Patients in US alone (>20 times PAH)
 - Initial Phase 1a PK/PD data demonstrated activity and favorable PK with potential for monthly dosing; full data mid-2024
 - Phase 1b hemodynamic proof of concept expected in 2025, randomized Phase 2 data expected in 2026
 - GPCR antagonist antibody addressing hereditary hemorrhagic telangiectasia (HHT)

Team with a Track Record of "Firsts" • Team with extensive track record of drug discovery and development success, resulting in 20 "first" approvals across multiple therapeutic areas

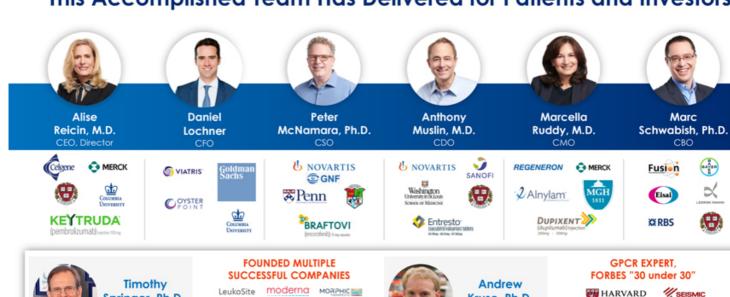
Reverse Merger Closed June 2024

- Well capitalized by a syndicate of leading institutional funds
- \$181M³ post close expected to provide runway into mid-2027

Pulmonary Hypertension: ²Heart Fallure with Preserved Ejection Fraction; ²At transaction close (6/20/24), cash, cash equivalents and investments of approximately \$181 million, before payment of fintransaction related expenses, is expected to fund current operational plans into mid-2027



This Accomplished Team Has Delivered for Patients and Investors





SEISMIC Scholar Rock.

2022 Lasker Award



Kruse, Ph.D. Co-Founder

FORBES "30 under 30"



Multiple Awards and Fellowships



Marc

Fusion

Eisai

XX RBS

4

Team Track Record: >20 1st Approvals with >\$50B In Annual Sales

1st approvals and indication expansions shown below





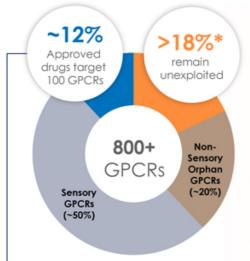








Biologics Offer Advantages Over Small Molecules in Targeting GPCRs in Multiple Settings



- When difficult to drug with small molecules
 Biologic captures complexity of ligand / receptor engagement
- If target site similar to domains of different proteins
 Biologic minimizes off target binding to improve safety / tolerability
- If use case requires tissue /compartment targeting
 Engineer biologic to target or exclude compartment as needed
- When multi-modal action needed

 Bispecific approach enables dual target engagement
- >>470 Approved drugs (~33% of all)
- >>\$180B in annual sales
- > Predominantly small molecules
- >Only 3 are antibodies

(*) Hauser, A.S. et al., Cell. 2018 Jan 11; 172(1-2); 41–54.e19.

* 18% = 100% - 12% (approved drug targets) – 50% (sensory) – 20% (non-sensory, orphan)



Our Unique Pipeline Opportunities are Enabled by Biologic Targeting of GPCRs



GROUP 2 PULMONARY HYPERTENSION (Group 2 PH)

Potential Best-in-Class

RXFP1 Agonist1

Supporting clinical data

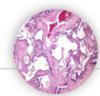


HEREDITARY HEMORRHAGIC TELANGIECTASIA (HHT)

First in Class & Indication

GPCR Antagonist² (anti-angiogenic)

Target pathway linked to disease genetics



FIBROSIS

Bi-specific Approach

GPCR Modulator² (anti-fibrotic)

Supporting clinical data for one component of bispecific

Scale of POC studies: ~50-200 patients per indication 3-6 months treatment

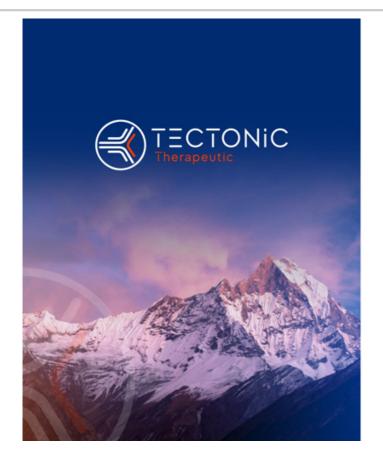
- 1. Fusion protein lead molecule in-licensed from Harvard U., optimized using GEODe platform
- 2. GPCR targeted therapeutics discovered internally using GEODe platform



Pipeline of GPCR-Targeted Biologics with Multiple Potential Value Infection Points Ahea Development programs include first-in-indication opportunities*

Program	Preclinical	Phase 1	Phase 2	Phase 3	Indication
RXFP1 Agonist (TX45 – Fc-relaxin)		Phase 1a (ongoing) PK/PD data mid-2024 Phase 1b (ongoing) Hemodynamic data 2025	Initiation Planned 2H 2024 Randomized Phase 2 Data 2026	>	*Group 2 PH ⁽¹⁾ in Patients with Heat Failure with Preserved Ejection Fraction (HFpEF)
GPCR Antagonist	Development Candidate Selection	Initiation Planned Q4'25/Q1'26			* Hereditary Hemorrhagic Telangiectasia (Osler Weber Reno Syndrome)
Bi-functional GPCR Modulator	Discovery				Fibrosis
GPCR Modulators	Discovery				Multiple Indications

⁽¹⁾ Pulmonary Hypertension



GEODe™ PLATFORM

Proprietary, validated platform, enables reproducible discovery and optimization of GPCR targeted biologics

Solving Key Challenges in GPCR Targeted Biologics Discovery

Challenges

RETAIN

endogenous GPCR structure to enable screening against relevant form of receptor

PURIFY

target in sufficient quantities to power screening campaign

INDUCE

immune response to human GPCR in animals if immunization strategy is pursued

STABILIZE

receptor in active conformation to enable agonist discovery

GEODe™ Platform Features Designed for Success

1.

Receptor Engineering, and Purification Technology delivers abundant receptor reagent in native conformation

^

In-vitro Yeast Display Libraries

provide high-diversity, without immune editing

3.

Protein Engineering

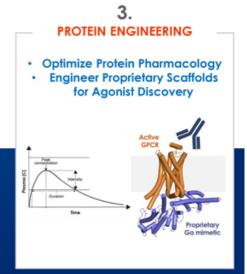
Optimize protein pharmacology Engineer antigen formats to enable screening for agonists or antagonists as needed



Proprietary GEODe™ platform spans three enabling technologies to identify and optimize potent GPCR targeted biologics

1. **EXPRESSION AND PURIFICATION TECHNOLOGY Produce Sufficient Quantities** and Stabilize Them in the **Correct Conformation** Native ECD

2. **IN-VITRO YEAST DISPLAY LIBRARIES Efficiently Screen Diverse Antibody Libraries** Against GPCRs



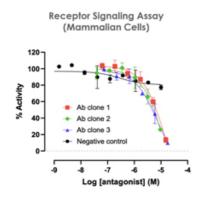
Large toolbox of biochemical methods, engineering tools, and assays



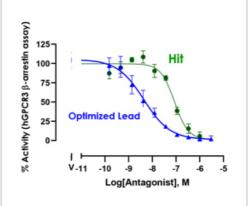


GEODe™ Platform Discovery Capabilities Deliver Selective, Ligand Competitive Orthosteric Antagonists

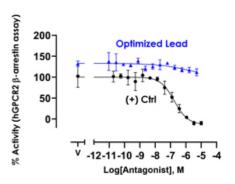
PURIFIED ANTIBODIES ARE FUNCTIONAL ANTAGONISTS*



OPTIMIZATION IMPROVES ORIGINAL POTENCY BY ~20X



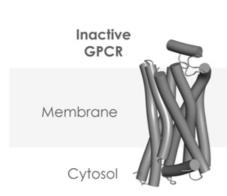
SELECTIVE (NO EFFECT ON OFF-TARGET GPCR)



^{*}Latest generation proprietary libraries delivering initial hits with >10X potency



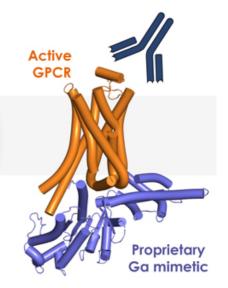
Our Proprietary Antigen Formats Enable Screening for Biologics with Agonist Activity





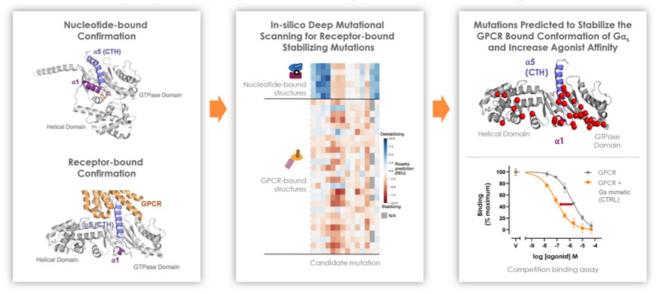
Proprietary Ga Mimetics

Designs Driven by Machine Learning and Energy Prediction Algorithms





Design of Our Proprietary $G\alpha$ Mimetics Is Driven by the Latest in Machine Learning and Energy Prediction Algorithms



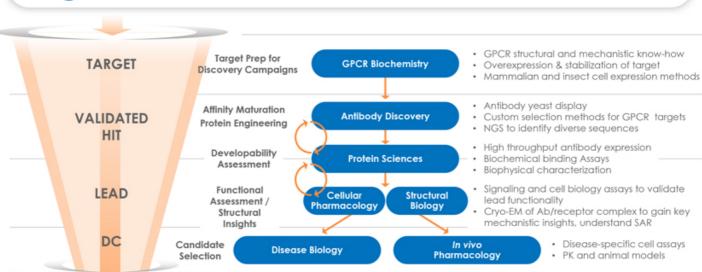
Ongoing enhancement of our ability to screen for biologics with agonist activity



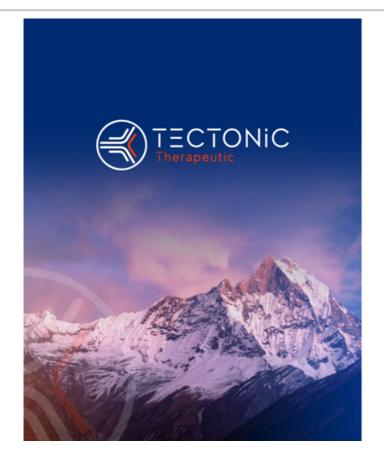
End-to-end Capabilities in Place at Tectonic for Continued Discovery of Optimal DCs



Suite of Ab Discovery, Optimization and Characterization Capabilities



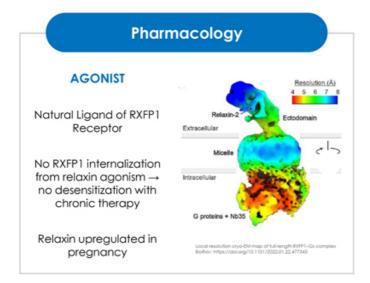




TX45: Fc-RELAXIN FUSION PROTEIN

RXFP1 agonist with differentiated profile

Hemodynamic and Anti-fibrotic Properties of Relaxin Demonstrated by its Role in Pregnancy







The First Recombinant Relaxin (serelaxin) Demonstrated Safety and Benefit in Acute Heart Failure (AHF) in Trials of >11,000 Patient

-Note: trials only included a two-day relaxin infusion

Study (WHF Day 5)	Relative Risk [95% CI]	N(drug)	N(pbo)
Pre-RELAX AHF	0.56 [0.22 – 1.45]	42	61
RELAX-AHF	0.54 [0.37 – 0.78]	581	580
RELAX-AHF-2		3274	3271
RELAX-AHF-EU	0.71 [0.52 – 0.98]	1756	894
RELAX-AHF-ASIA	0.42 [0.21 – 0.84]	437	433
Meta Analysis	0.77 [0.67 - 0.89] p = 0.0002	6090*	5239

PK limitations of relaxin a major hurdle to its development for chronic diseases

Our GEODe Protein Engineering capabilities address this challenge

heart failure (WHF) – fixed-effect (FE) meta-analysis; serelaxin 30 µg/kg/day vs. placebo,. Cl,

- · One of two pivotal studies included in meta-analysis, RELAX-AHF-2, failed to achieve the co-primary endpoints, and we believe that two factors contributed to this outcome
 - It was ambitious to expect that a two-day infusion of serelaxin, with its short half-life and mechanism of action, would demonstrate clinical benefit at day 5 and, more puzzlingly at 6 months
 - Operational challenges with patient enrollment may also have had an impact

"Teerlink J.R. et al. Eur. J. Heart Fail. 2019; 22: 315-329; patients from RELAX-AHF-JP (N=30 total) not listed in table

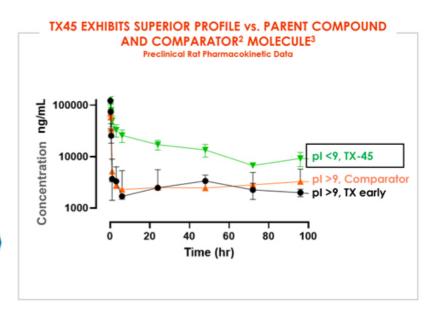


TX45 is Engineered to Solve a Critical PK Problem **Observed with Other Relaxin Molecules**

Relaxin has very short in vivo half-life Fc-fusion needed to improve PK Relaxin Fc-fusions have steep decline in exposure after dosing (>90%) because of glycocalyx binding due to high pl1 Engineering TX45 to reduce net positive

charge (and lower pl) prevents rapid

clearance

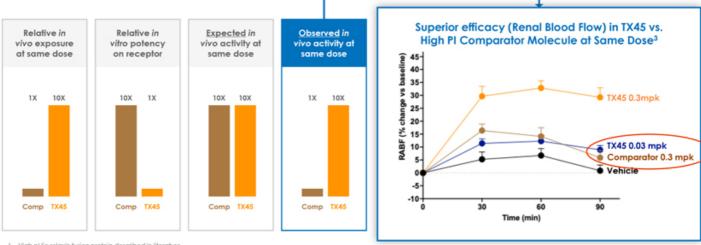


- Isoelectric Point
 High pl Fc-relaxin fusion protein described in literature
 Source: Tectonic internal data



TX45 Reflects Significant Protein Engineering to Optimize Its Pharmacology

TX45 results in ~10x greater in vivo potency over comparator molecule than predicted based on PK and in vitro activity2 – potentially from reduced trapping of drug in glycocalyx, resulting in increased free drug available to activate RXFP1 in tissues



- 1. High pt Fc-relaxin fusion protein described in literature
- 2. ~0.03 mpk of TX45 has similar efficacy as 0.3 mpk of Comparator



TX45 - Optimized RXFP1 Agonist for Group 2 PH in HFpEF

- ✓ Potential Best-in-Class Relaxin **Agonist with Optimized PK**
- Protein engineering has extended pharmacologic half-life to support monthly dosing
- √ High Unmet Need in Group 2 PH with HFpEF1
- No approved therapy
- >600,000 patients in US
- High 5-year high mortality
- ✓ Mechanism may be Ideal to **Address Group 2 PH**
- Pulmonary + systemic vasodilation, cardiac relaxation
- Reversal of fibrosis in pulmonary vasculature and heart
- Anti-inflammatory
- √ Supporting Clinical and Preclinical Data
- Hemodynamic benefit in studies of serelaxin in AHF
- Clear benefit observed with TX45 in rodent PH and CHF models
- √ Streamlined Development Strategy
- No outcome study needed
- Enrichment strategy for CpcPH where there is greatest unmet need
- Enables potential early launch relative to congestive heart failure
- ✓ Potential to Expand Indications
- Other PH Groups, Heart failure, renal disease



Pulmonary Hypertension Consists of 5 Distinct Diseases

Group 2 PH is of Greatest Interest for TX45's Initial Indication

Group 1 ("PAH") $(\sim 25,000^{1})$

- · Idiopathic
- Hereditary
- Connective tissue disease-associated
- · Congenital heart disease-associated
- Drug-induced

Group 2 $(>600,000^1)$

- · Due to left heart disease (HFpEF, HFrEF) or valvular heart disease
- · CAD, HTN, T2DM2, high cholesterol are risk factors
- Two Subtypes: CpcPH / IpcPH

Group 3

- Due to lung disease or hypoxia
- May be due to COPD, interstitial lung disease (i.e., IPF) or obstructive sleep apnea

Group 4 ("CTEPH")

· Chronic thromboembolic pulmonary hypertension -i.e., as a consequence of blood clots

Group 5 (Misc.)

 Miscellaneous group with causes unclear or multiple underlying factors



US Prevalence
 CAD: Coronary Artery Disease, HTN: Hypertension, T2DM: Type 2 Diabetes Mellitus Nat. Pul. Hypertension Unit, Ireland

TX45

Our Focus is on the Group 2 PH Subset of Heart Failure with Preserved EF (HFpEF)

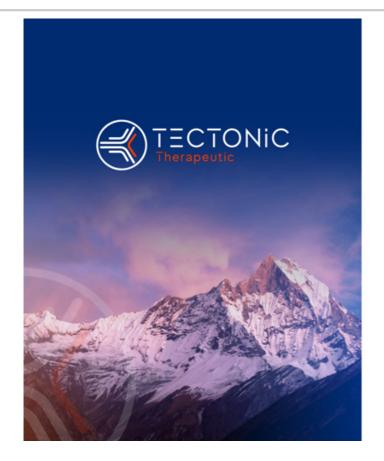
Clinical Program Designed to Enable Evaluation of Efficacy in Overall Population and CpCPH

US prevalence numbers. Estimates based on data from
 Kapelios, C. et al., Cardiac Failure Review 2023;9:e14
 Sera F. et al. Heart 2023;109:626–633

IpcPH (Isolated, post capillary PH) Heart Increased Left Ventricle Filling Pressures **HFpEF** Normal -**★**HFpEF (Several million pts.)1,2 Increased Pulmonary Venous Pressures Passive Pressure Backflow Group 2 PH Pulmonary Hypertension (>600K)3 IpcPH (>500K) CpcPH (>100K) CpcPH (Combined, pre- and post capillary PH) Chronic PH and/or Other Drivers Pulmonary Vasculature Permanent Vascular Changes, e.g. Pulmonary Artery Remodeling Increased Vascular Resistance PAH-like Normal

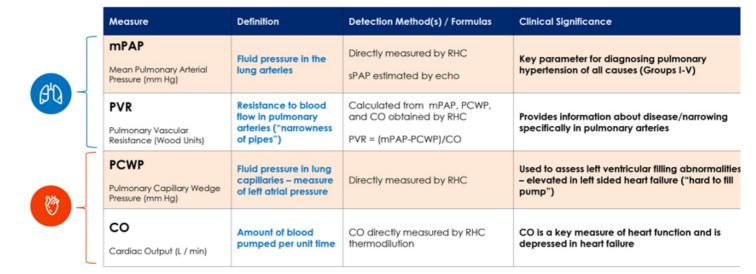
Right Heart Failure





Group 2 PH: Patient Journey

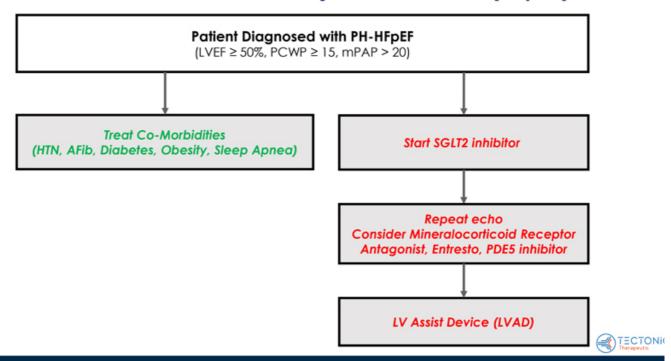
Key Hemodynamic Measures in Pulmonary Hypertension



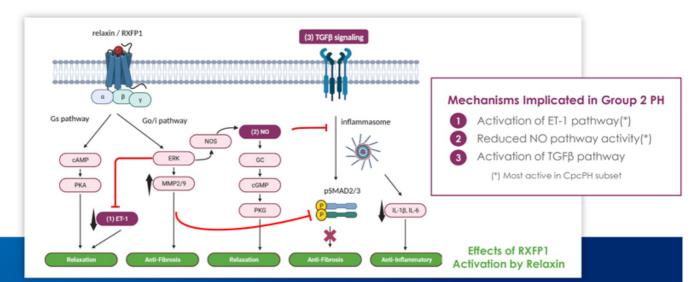




Treatment of Pulmonary Hypertension (PH) in the Setting of Heart Failure with Preserved Ejection Fraction (HFpEF)



Relaxin Multimodal MOA Addresses Pathways Implicated in Group 2 PH Pathophysiology



- ✓ Pulmonary and systemic arterial vasodilation
- ✓ Favorable remodeling: anti-fibrotic effect in heart and pulmonary vasculature
- ✓ Anti-inflammatory



Relaxation and Anti-Fibrotic Effects of Relaxin Have Potential for Disease Modification in Group 2 PH

- · Heart, and vascular dysfunction contribute to disease pathology
- · Renal dysfunction also present in many of these patients

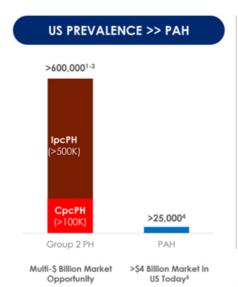
CHARACTERISTICS OF GROUP 2 PH	ІрсРН	СрсРН	ANTICIPATED RELAXIN EFFECTS
Pulmonary artery narrowing, thickening, stiffening, fibrotic remodeling		✓	Pulmonary Vasodilation Anti-inflammatory, anti-fibrotic
Right Ventricular Dysfunction	✓	✓	Right ventricular remodeling
Thickening and stiffening of Left Ventricle	✓	✓	Peripheral vasodilation, cardiac relaxation, left ventricular remodeling
Compromised kidney function	✓	✓	Improvement in kidney function

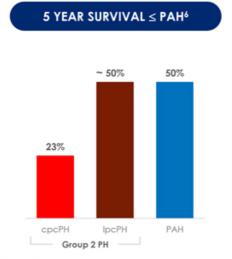
Reducing pulmonary pressures and improvement of left heart function are both key to providing efficacy



Group 2 PH vs. PAH

- Significant opportunity for a first-in-indication therapy
- Highly motivated physicians and patients





NO THERAPEUTIC OPTIONS

No approved therapies

Limited pipeline

PAH Drugs have not demonstrated convincing efficacy in Group 2 PH with the exception of PDE5i in CpcPH

Multiple drugs/ mechanisms approved

ET1R antagonists PDE5 inhibitors GC stimulators Prostacyclins ACTRII-Trap

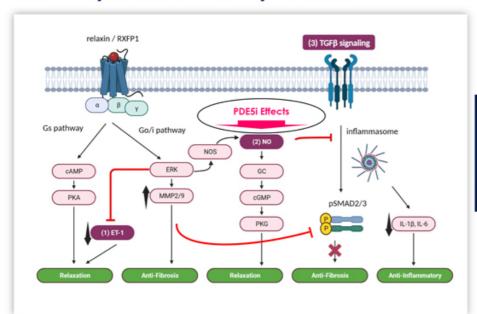
Group 2 PH

PAH

TECTONIC

- US prevalence numbers. Estimates based on data from Kapellos, C., et al., Cardiac Fallure Review 2023;9:e14
 Sera F., et al., Heart 2023;109:626-633
 www.p.chinilifative.com
 GlobalData
 Caravita S., et al., https://doi.org/10.1371/journal.pone.0199164; Gall H., et al The Journal of Heart and Lung Transplantation, Vol 36, No 9, September 2017; estimates from synthesis of different studies

PDE5 Inhibitors Affect Only One of Several Pathways Addressed by Relaxin



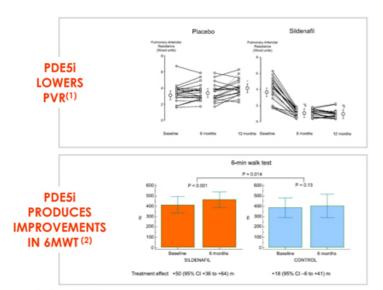
TX45 anticipated to be effective in both Cpc-PH and Ipc-PH because it targets additional anti-fibrotic and anti-inflammatory mechanisms on top of activation of the NO pathway

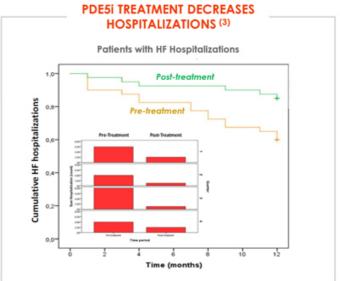
Guazzi et al. 2011 Belyavskiy et al. 2020 Kramer et al. 2019



PDE5 Inhibitors Show Significant Benefit in CpcPH and HFpEF Despite Limited Mechanism of Action Compared with Relaxin

Expected to Increase POS of Relaxin in HFpEF and CpcPH





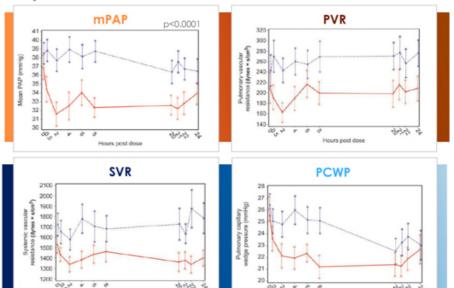
- Guazzi et al. 2011 Belyavskiy et al. 2020 Kramer et al. 2019



Relaxin Improves Hemodynamics in Heart Failure

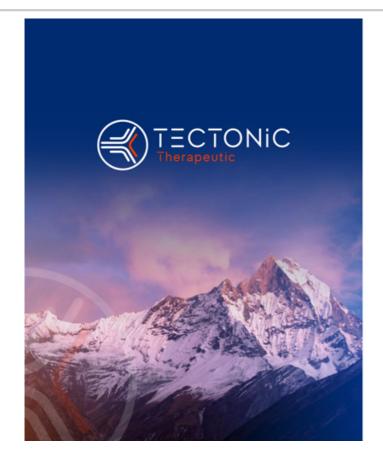
Balanced pulmonary and peripheral vasodilation, and improved heart function (decreased PCWP) relevant to Group 2 PH

- Panels: serelaxin infusion for 20hrs in Acute Heart Failure patients with elevated pulmonary artery pressure (PAP) rapidly lowered mPAP, pulmonary vascular resistance (PVR), systemic vascular resistance (SVR), pulmonary capillary wedge pressure (PCWP)***
- Not shown: serelaxin also improved right atrial pressures (RAP), and renal function*
- In a similar study in patients with chronic CHF, a reduction in PCWP and an increase in cardiac output was demonstrated**



"Ponikowski P. et al. Eur. Heart J. 2014, **Dschietzig T. et, Al, Ann NY Acad Sci 2009 "Diuretics were allowed after the first 8 hours



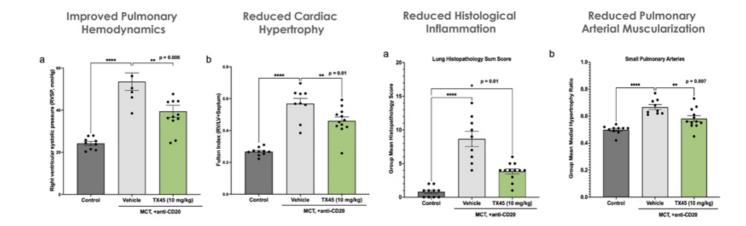


TX45 and Other Relaxin Preclinical Data

Preclinical validation Anti-fibrotic effects of relaxin observable across broad range of studies

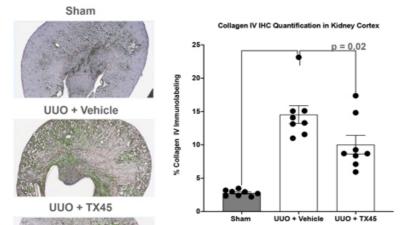
TX45 Efficacy in Monocrotaline-Induced Model of Pulmonary Hypertension in Rats

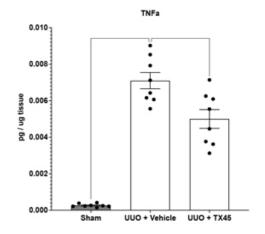
TX45 Significantly Reduces Right Ventricular Systolic Pressure, Fulton's Index and Muscularization of Small Pulmonary Arteries in Tx Model of PH





TX45 Significantly Reduces Collagen and TNFa levels in Mouse UUO Model of Renal Fibrosis

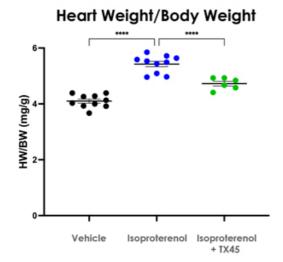


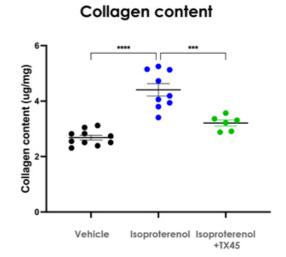




^{*} Dotted red line defines the cortex region

TX45 Reduces Cardiac Hypertrophy and Fibrosis in the Mouse Isoproterenol Induction Model





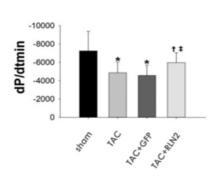


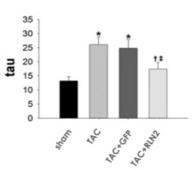
Relaxin Prevents Diastolic Dysfunction in a Model of HFpEF and Reverse Cardiac Fibrosis

Relaxin Prevents TAC (transverse aortic constriction) -Induced Cardiac Diastolic Dysfunction in Rats & Reverses Diabetes-Induced Cardiac Fibrosis and Diastolic Dysfunction in mRen-2 Rats.

Human relaxin-2 Improves Diastolic Dysfunction

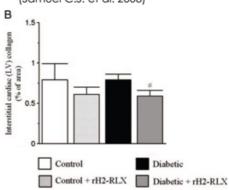
gene therapy administered with 28 days follow-up (Shuai X.X. et al. 2016)





Human relaxin-2 reverses cardiac fibrosis

2 wk infusion in STZ-treated diabetic/HTN mRen-2 rats (Samuel C.S. et al. 2008)



* GFP = green fluorescent protein (adenovirus used as negative control)



TX45

Additional Anti-Fibrotic Effects of Relaxin Demonstrated in Preclinical Animal Models of Heart Failure

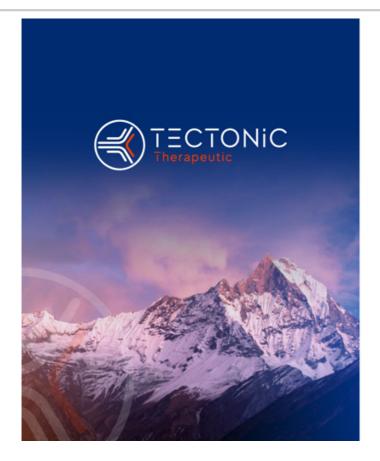
In other rodent models of heart failure, Relaxin has been shown to also:

- ✓ Inhibit TGFβ or ANG-II induced collagen synthesis in cardiac fibroblasts¹
- ✓ Prevent interstitial and perivascular fibrosis, with effect superior to enalapril²
- ✓ Prevent diastolic dysfunction³
- √ Prevent and Reverse cardiac hypertrophy³
- ✓ Reverse cardiac inflammatory gene expression⁴

Findings consistent across models and studies published by different investigators

- 1. Relaxin knockout model of cardiac fibrosis (mouse) Samuel C.S. et al. 2004
- 2. Isoproterenol infusion model of heart failure (mouse) Samuel C.S. et al. 2014
- 3. Transverse aortic constriction model of HFpEF (rat) Shuai X.X. et al. 2016, Lapinskas T. et al. 2020
- 4. Aging-induced cardiac inflammation (rat)- Martin B. et al. 2018





TX45 Clinical Program and Preliminary Phase 1 Data

TX45

TECTONIC Therapeutic

TX45 Development Program Overview

Planned readouts in mid-2024, 2025, 2026





TX45 Single Ascending Dose Study: Summary of preliminary data¹

- Well tolerated with minimal adverse events, no drug-related SAEs
- Pharmacokinetics
 - Low intersubject variability in serum concentrations (≤ 20%)
 - No evidence of immune mediated clearance
- Pharmacodynamics from 0.3 mg/kg cohort (lowest dose)
 - 30% increase in renal plasma flow on Day 2 post dose persisting at least until Day 8 post dose
 - Magnitude of effect consistent with serelaxin's effect
 - Meets "go criteria"

TX45 SAD Dose Escalation Plan



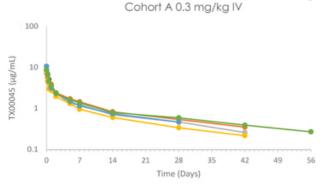
RPF= Renal Plasma Flow *Cohorts F and G are option



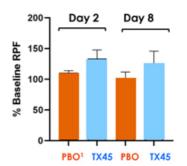
1. As of Jan 18, 2024

Phase 1a Study: Preliminary Single Dose TX45 Pharmacokinetic/Pharmacodynamic Data (lowest dose)

TX45 Serum Concentrations from Phase 1a Subjects



Renal Plasma Flow in Phase 1a Subjects TX45 Dosed on Day 1 - Cohort A 0.3 mg/kg IV



Based on Preliminary Data, We Anticipate Potentially Monthly Dosing at Optimal SC Dose

1. Placebo



Preclinical PK/PD from Acute RBF Model Informs Target Plasma Concentration Levels at Trough for Therapeutic Effect

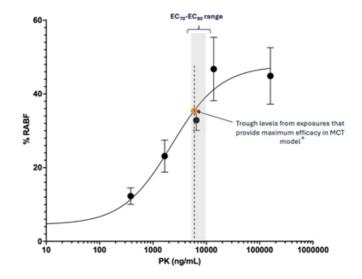
RBF Model

Used to assess pharmacodynamic response to TX45 administration based on acute vasodilatory effects of relaxin, as measured by increased rat renal blood flow (RBF)

MCT Model

Used to assess the therapeutic anti inflammatory/anti-proliferative efficacy of TX45 in a rat model of pulmonary hypertension

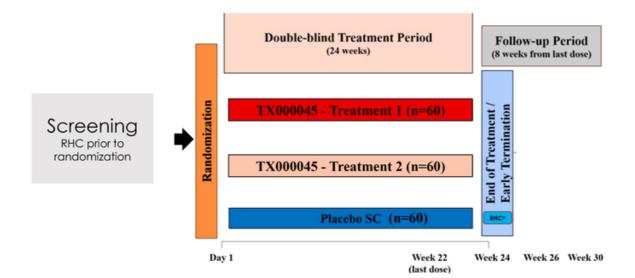
The trough levels required for maximal efficacy in the MCT model fall between the EC_{70} and EC_{80} response in the RBF model



^{*} The exposure in humans that falls between the EC70-80 are expected to be 3-fold lower than in rats given the greater potency of TX45 on human RXFP1 compared to rat RXFP1



Summary of Projected TX45 Phase 2 Study Design



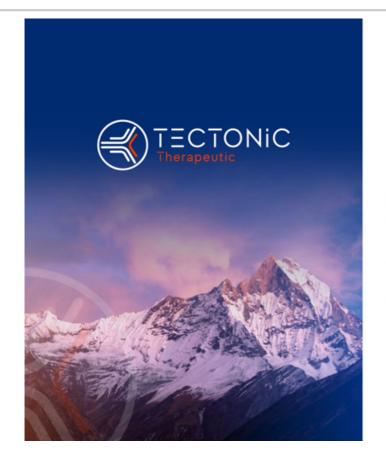


Significant Pharma Interest in Relaxin Tectonic has Potential Best-in-Class Molecule

Company	Format	Formulation	Expected Dosing Frequency	Population	Timing
TECTONIC Therapeutic	FC-FUSION Engineered for optimal PK, biodistribution, high [C] formulation	SubQ High [C] achievable	Q4 Weeks	Group 2 PH / HFpEF (enriched for CpcPH)	Data in 2026
AstraZeneca 🕏	Fc-Fusion	SubQ	Q2 Weeks*	Group 2 PH / HFpEF and HFrEF	Start: Q1 2023 1° completion: Q2 2025
AstraZeneca 2	Small Molecule	PO	QD*	CHF	Start: Q2 2024 1° completion: Q4 2025
Lilly	h-Albumin-mAb- Fusion	SubQ Injection site reactions	Q Weekly*	HFpEF	Start: Q1 2023 1° completion: Q4 2025

^{*} Based on dosing frequency in Phase 2 studies listed in clinical trials database



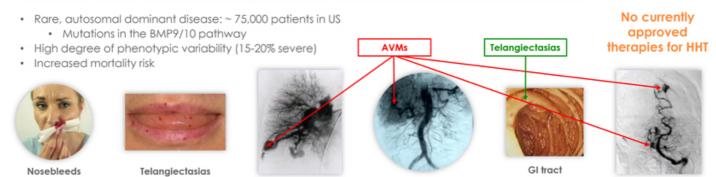


HHT Program

First-in- indication opportunity for 2nd most common genetic bleeding disorder

Hereditary Hemorrhagic Telangiectasia (HHT)

Autosomal Dominant Disease that Causes Abnormal Blood Vessel Formation



FREQUENCY OF ABNORMAL

- >95% Nose (epistaxis)
- >90% Skin (Telangiectasia)
- 50% Lungs (pulmonary AVMs*)
- 50% Liver (hepatic AVMs)
- · 20% Gastrointestinal tract
- 10% Brain (cerebral AVMs)

INCREASED FREQUENCY OF THE FOLLOWING

Lung

- Iron and transfusion dependent anemia (10-30% of patients)
- High output CHF 2nd to Liver AVM → liver transplant
- Stroke
- Brain abscesses and other deep tissue abscesses
- Venous thromboemboli (VTE)
- · Pulmonary Hypertension
- Migraines

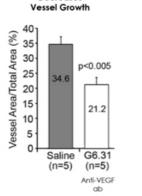


Brain

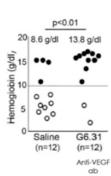
Anti VEGF: Mouse HHT Model Predictive of Efficacy in Patients

ANTI-VEGF mAb SUPPRESSES AVM FORMATION, VISCERAL HEMORRHAGE IN HHT MODEL

ALK-1 Conditional Knock-Out Wound-induced vascular response



Decreases

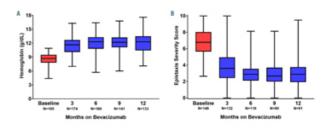


Improves

Hemoglobin Levels

Angiogenesis. 2014 Oct; 17(4): 823-830

ANTI-VEGF THERAPY REDUCES EPISTAXIS SEVERITY, IMPROVES HEM. PARAMETERS IN PATIENTS



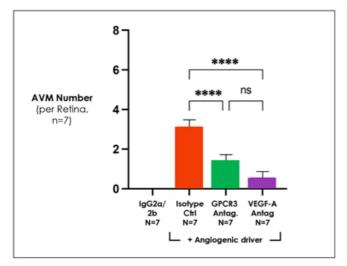
- No rigorous clinical studies ever conducted only evidence is from IITs
 - Patent expiration on anti-VEGF mab lowered incentive to investment in label expansion
 - Dose and Dosing interval not well explored
- Treating physicians concerned about side effects

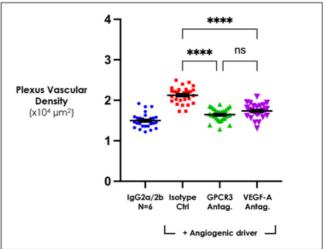
Haematologica, 2021 Aug 1; 106(8); 2161-2169



A GPCR3 Antagonist Significantly Reduces **AVMs and Retinal Vascular Density in Animal Model of HHT**

Effects of anti-GPCR3 antagonist mAb in mouse HHT model generated by immunoblocking of BMP9 and BMP10^(1,2)





Ruiz, S. et. al., Scientific Reports, 2016; 6:37366, doi: 10.1038/srep37366
 Ruiz, S. et. al., J. Clin. Invest., 2020; 130(2):942–957, doi.org/10.1172/JCI127425

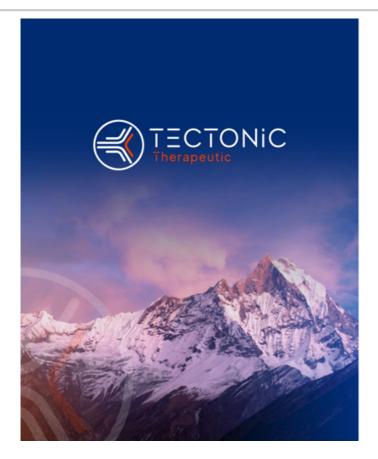




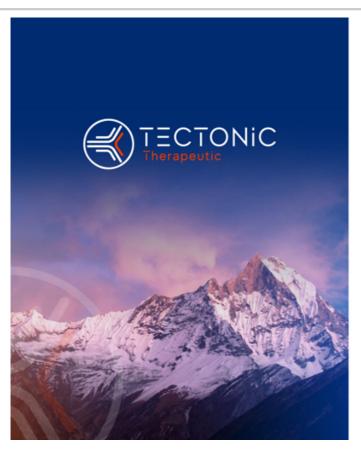
Projected HHT Development Program Overview







Summary



AVROBIO/Tectonic Merger Overview

Company Ticker	NASDAQ: TECX		
Private Placement Investors	Major mutual fund, TAS Partners, 5AM Ventures, EcoR1 Capital, Polaris Partners, Farallon Capital (managed funds), Vida Ventures, Pags Group and other investors		
Cash at Close	~\$181 million¹		
Expected Cash Runway	Into Mid-2027		
Reverse Stock Split:	1 for 12		
Merger Close Date	6/20/2024		

1. As of 6/20/24, Before final transaction expenses



Uniquely Positioned to Deliver on Value Creating Milestones

Strong Balance Sheet Post Transaction

>\$181* Million

~3 year Runway

Well positioned to execute

Pipeline of Uniquely Differentiated Assets

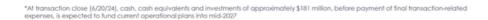
Multiple Inflection Points 2024, 2025, 2026, 2027

Address important clinical problems, underserved patient populations

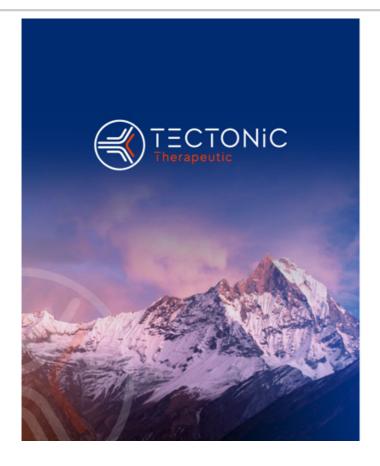
Accomplished Team
World-leader Founders

20 1st Approvals
>\$50B in Annual Sales

Leadership with Proven Track Record







Thank you

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