THiogenesiS THerapeuticS

Strong Orphan Platform + Rapid Clinical Path

TTI-0102: Next-generation cysteamine prodrug

(TSXV: TTI / OTCQX: TTIPF)

Forward Looking Statement

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Thiogenesis - Summary

Clinical-stage biotech developing novel thiol-based (~SH) prodrugs for high-need pediatric and orphan diseases

- Leveraging decades of human data with cysteamine (~SH) across multiple diseases, de-risked mechanisms of action and well understood biology
- Lead Compound TTI-0102, is an improved cysteamine-based prodrug that depletes cystine and targets improvements in oxidative stress & mitochondrial dysfunction
- Planning for Phase 3 in cystinosis and Phase 2 in pediatric MASH, plus two active clinical programs in inherited mitochondrial disease
- Multiple near-term catalysts across 2026 and into 2027
- Compelling Valuation: < C\$35m with multiple value-creating catalysts

Experienced Leadership

Christopher M. Starr, PhD

Chairman of the Board

- Co-founder, BioMarin; co-founder & CEO of Raptor (acquired for \$800M), Co-founder and Executive Chairman, Monopar
- 30+ years of experience building transformative orphan drug companies

Patrice Rioux, MD, PhD

Founder, CEO, Director

- Leading authority in mitochondrial metabolism
- Former CMO / Head of Regulatory at Raptor; led approval of Procysbi®
- Clinical development leadership across rare and metabolic disorders

Brook Riggins, CFA

CFO, Director

- 25+ years in small-cap public markets, focused on biotech and med-tech
- Leadership roles across investment firms and public life-science companies (CIO, VP Finance, VP - Research Analyst)











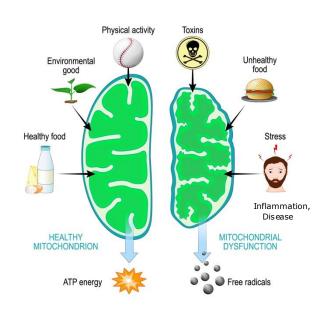




Thiogenesis - Investment Highlights

- Clinically validated biology: cysteamine-based drugs used in thousands of patients & numerous studies; strong glutathione(GSH)/antioxidant rationale
- Next generation cysteamine prodrug: with improved GI tolerability + controlled sustained release, improves adherence and dosing flexibility
- 505(b)(2) enables accelerated development and lowers cost across all indications
- De-risked indications: with clear regulatory pathways (Cystinosis, MELAS, Leigh syndrome and pediatric MASH)
- Efficient capital plan: multiple milestones achievable with modest spend
- Leadership with multiple prior orphan-drug approvals (including Procysbi® delayed release cysteamine)

TTI-0102 - Lead Compound

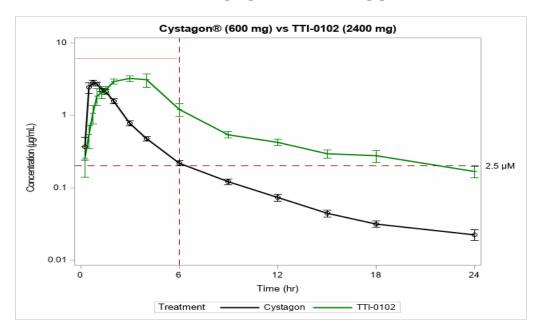


- Asymmetric disulfide prodrug that produces 2 cysteamine molecules + pantothenic acid (B5)
- Controlled metabolic activation → reduces peak-related GI related side effects common with existing cysteamine-based compounds
- Extended PK provides potential for once-daily dosing, improving adherence and real-world use in chronic pediatric diseases
- Boosts intracellular cysteine, enabling increased GSH and taurine to support mitochondrial function & neuronal stability
- Applicable across multiple indications where oxidative stress, cysteine deficiency, and mitochondrial dysfunction are key drivers

TTI-0102 (Phase 1)

A controlled-release next-generation cysteamine prodrug

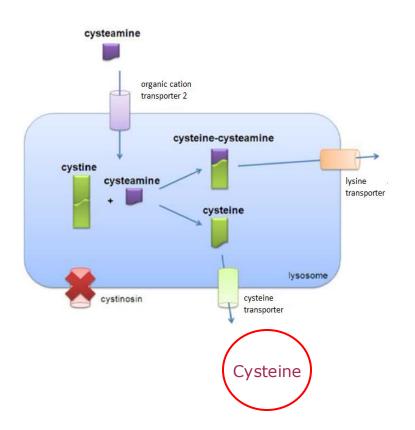
Phase 1 Study (PK/Safety)



Well-tolerated at 4x therapeutic dosing level of generic cysteamine in Phase 1 (healthy adult volunteers)

Nephropathic Cystinosis

Cystinosis: Established biology with clear Phase 3 path



Disease Biology

- Defective lysosomal transporter → toxic cystine crystal accumulation & progressive organ damage (i.e. kidneys)
- Cysteamine is clinically proven but limited by GI intolerance and strict multi-dose schedules

TTI-0102 Rationale

Designed for improved tolerability & once-daily dosing potential

Commercial Opportunity

- >\$300M addressable market
- Near-term Phase 3: IND planned for H1-2026

Besouw M - Adapted from et al. Drug Discovery Today, 2013

Leigh Syndrome Spectrum (LSS)

One of the most severe pediatric mitochondrial diseases

- Devastating early-onset mitochondrial disorder; ~1:40,000 live births
- Characterized by energy failure \rightarrow developmental regression, motor loss, seizures
- TTI-0102 addresses oxidative stress + low GSH/taurine implicated in neuronal and metabolic dysfunction
- FDA-cleared IND (June 2025) for a two-stage Phase 2a trial, in collaboration with a leading pediatric hospital
- Two-stage Phase 2a:
 - Stage 1: randomized, placebo-controlled (9 pts)
 - Stage 2: pediatric open-label extension (6 pts)
- Dosing strategy incorporates MELAS interim biomarker data

MELAS

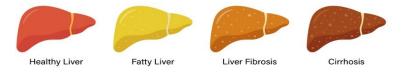
(Mitochondrial Encephalomyopathy, Lactic Acidosis & Stroke Like Episodes)

MELAS: Strong biological rationale + Phase 2 underway

- Severe pediatric mitochondrial disease with rapid neurodegeneration;
 ~ 4.1/100,000 prevalence
- Driven by oxidative stress, low GSH, impaired energy metabolism
- TTI-0102 reduces oxidative stress and supports neuronal stability
- Phase 2 EU trial (NL + FR): randomized, blinded, placebo-controlled
- Interim analysis: biological proof-of-concept, mitochondrial biomarker improvements, dosing insights
- Final 6-month data expected January 2026

Pediatric-Metabolic Dysfunction-Associated Steatohepatitis (MASH)

STAGES OF LIVER DAMAGE



- ~2-3% prevalence; driven by obesity, oxidative stress and mitochondrial dysfunction
- Primary mechanism: reduces mitochondrial oxidative stress and helps metabolize liver fat
- Secondary mechanisms (fibrosis):
 - Cystine depletion
 - Pantothenic acid (B5)
- NIH-CyNCh Trial (DR-cysteamine) showed promising fat lowering signals limited by dosing
- TTI-0102 overcomes prior dosing limitations
- IMPD submission planned to initiate a Phase 2 (EU)

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Thiogenesis – Upcoming Milestones

Potential milestones (6 months):

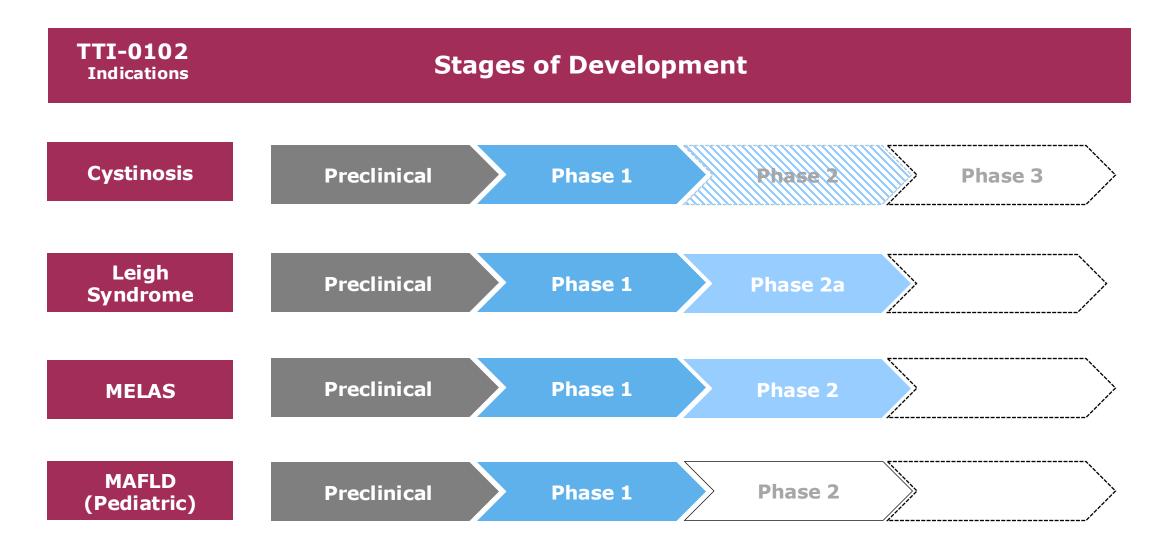
Cystinosis → Phase 3 IND clearance H2-2026

Leigh syndrome → Phase 2a patient enrollment Q1-26/data Q3-26

MELAS → Final Phase 2 data Q1-2026

Pediatric MASH → Phase 2 IMPD cleared H1-2026

Thiogenesis Pipeline



Company Info

Thiogenesis Therapeutics (TSXV: TTI / OTCQX: TTIPF)

Shares Issued 51.8 million

Shares Fully Diluted 56.9 million

Insiders (32%) 16.7 million

Share Price (12/05/2025) \$0.64

52 week high/low \$0.88/C\$0.51

Market Cap. \$33.2 million

Cash (09/30/2025) \$3.3 million

Contact <u>info@thiogenesis.com</u>

Currency in Canadian dollars

Companies of Interest

Name	Symbol	Disease	Stage	Market Cap	Notes
Thiogenesis	TTI	MELAS	Ph.2	C\$34 mn	Anti-ox, Anti-inflam.
rmogenesis		MELAS		C\$54 min	And VX, And Illiam.
Spruce	SPRB	MPS IIIb	Ph. 2	US\$107 mn	Enz. Replacement
Sagimet	SGMT	Obesity/NASH	Ph 2	US\$224 mn	FASN
Larimar	LRMR	F. Ataxia	Ph. 2	US\$302 mn	Protein Replacement
Zevra	ZVRA	NP-C	NDA	US\$475mn	Enz. Signaling
Monopar	MNPR	Wilson's	NDA	US\$575 mn	Copper chelation
Reata	RETA	F. Ataxia	Approved	US\$7.0 bn	Anti-ox & Anti-inflam.

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