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November 2024

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Unlocking the Power of Small Molecules to Change the Course of Genetically Defined Rare Diseases



Diversified biotech developing oral small molecules designed to **modify gene expression** in rare disease



Pociredir: potential best-in class oral small molecule HbF inducer for sickle cell disease (SCD); granted Fast Track and Orphan Designations



Discovery efforts validated by advancement of clinical programs

Strong cash position of \$257.3M as of 9/30 with runway into at least 2027

Founded in 2015

IPO in 2019

Ticker: FULC



Small Molecule Pipeline Across Multiple Rare Diseases

Indication	Asset / MOA	Preclinical	Phase 1	Phase 2	Phase 3	Collaborator
Clinical Programs						
FSHD	Losmapimod (DUX4 Reduction)		Future Losmapimo	od Development Sı	uspended*	(Ex-U.S.)
SCD	Pociredir (HbF Induction)					



FSHD: Facioscapulohumeral muscular dystrophy; HbF: Fetal hemoglobin; SCD: Sickle cell disease

* Fulcrum suspended future losmapimod development upon announcement of topline results from the Phase 3 REACH Clinical Trial on September 12, 2024. Losmapimod failed to achieve its primary endpoint of change from baseline in relative surface area (RSA), a measure of reachable workspace (RWS), compared to placebo in the Phase 3 REACH Clinical Trial.



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Pociredir

for Sickle Cell Disease

Fast Track Designation Orphan Drug Designation



Sickle Cell Disease: Debilitating Disease with High Unmet Need

The Disease

Genetic disorder caused by mutation in Hemoglobin-Beta (*HBB*) gene

Results in abnormal sickle-shaped red blood cells that rupture or block blood vessels

Debilitating Symptoms

- Vaso-occlusive crises (VOCs)
- Other complications, including stroke, neuropathy, and acute chest syndrome
- Anemia / hemolysis
- Morbidity and mortality

Global Impact





FULCRUM THERAPEUTICS

Despite Therapeutic Options, Significant Unmet Need Remains for People Living With SCD





Higher HbF Levels Result in Reduced Symptomology in People Living with Sickle Cell Disease

Even incremental increases in HbF can lead to meaningful improvement in disease severity



By Raising HbF Levels, Pociredir Provides the Potential to Ameliorate Disease Pathology through Convenient Oral Dosing



Targeting EED Results in HbF Increases







Dose-dependent HBG mRNA Induction in Healthy Volunteers

Gamma Globin (HBG) mRNA Induction is both Time- and Dose-dependent in MAD Cohorts

HBG Fold Induction in Healthy Volunteers



Safety follow-up (SFU) samples were collected 7 – 10 days post 14-day treatment period; PBO: placebo; Data presented as geometric LS mean ratio (to placebo) with 95% confidence interval; mixed-effects model for repeated measures (MMRM) analysis performed for Day 7 and Day 14; analysis of covariance (ANCOVA) utilized for SFU data;. HBG: hemoglobin gene; HBB: hemoglobin subunit beta gene



Pioneer Phase 1b Pociredir Clinical Trial in SCD Subjects

Study Population

Males and females with SCD, ages 18 - 65 years

Approximately 10 subjects per cohort

Discontinued hydroxyurea for ≥60 days



Study Design – Open-label



Study Endpoints

Primary	Secondary	Exploratory
Safety and tolerability assessments	HbF induction, hemolysis and anemia:	Globin gene expression
PK parameters	• % HbF (HPLC)	% F-cells
reparametere	Absolute reticulocyte count	Biomarkers of hemolysis
	Total hemoglobin	Incidence of VOCs
	Unconjugated bilirubin	PK/PD correlation

U.S. FDA lifted the clinical hold for pocifedir on August 18, 2023. *Reinitiated trial at the 12mg dose, to be followed by the 20mg dose.

HbF, fetal hemoglobin; HPLC, high-performance liquid chromatography; PD, pharmacodynamics; PK, pharmacokinetics; SCD, sickle cell disease; VOC, vaso-occlusive crisis.



Pociredir Was Generally Well-tolerated with No Serious Treatment-related Adverse Events (Pioneer Ph1b – Open Label)

Number of Patients with:	Pociredir (n=16) n (%)
Any TEAE	10 (62.5)
Any treatment-related TEAE	5 (31.3)
Any serious adverse event (SAE)*	4 (25.0)
Any TEAE leading to treatment discontinuation	0
Any lab-related TEAE	0
Patients with TEAE (by Maximum Severity)	
Mild	4 (25.0)
Moderate	5 (31.3)
Severe	1 (6.3)
Most Common TEAEs	
Pain crisis	4 (25.0)
Headache	3 (18.8)

* In 3 (of 4) patients, SAE began prior to first dose of study drug

- 23 Treatment Emergent Adverse Events (TEAEs) in 10/16 (62.5%) patients
 - 8/23 treatment-related TEAEs in 5/16 (31.3%) patients: (headache [x2], lip numbness, diarrhea, fatigue, somnolence, nausea, tinnitus)
 - All mild in severity, non-serious and resolved while patient remained on study drug
- 4/23 TEAEs (in 4 patients) characterized as VOC (pain crisis) per protocol definition
 - None reported as related to study drug
 - Two VOCs occurred in patients documented non-adherent to study drug
- Single SAE in patient on study drug*
 - VOC with chest syndrome, reported as not related to study drug



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Pioneer Phase 1b Clinical Trial Sites

O<u>Active Sites:</u>

- US Sites
- University of Miami (PI: Alvarez)
- University of North Carolina, Chapel Hill (PI: Little)
- Jacobi Medical Center (Bronx, NY) (PI: Rivlin)
- Lynn Health Sciences Institute (PI: Griffin)
- Virginia Commonwealth University (PI: Smith)
- Boston Medical Center (PI: Ribeil)
- University of California Los Angeles (PI: Sehl)
- Mississippi Center for Advanced Medicine (PI: Pennington)
- University of Arkansas, Little Rock (PI: Birrer)
- Lady of the Lake Hospital (Louisiana) (PI: Stagg)
- Inova Cancer Center (Fairfax, VA) (PI: Alan)

South Africa Site

Wits Health Consortium (Johannesburg) (PI: Mahlangu)

On-boarding Sites:

US Sites

- UT Houston (PI: Idowu)
- University of Illinois Chicago (PI: Molokie)
- Queens Hospital Cancer Center (Jamaica, NY) (PI: Ferman)
- Massachusetts General Hospital (PI: Azar)
- East Carolina University (PI: Liles)

Nigeria Sites

- National Hospital, Abuja (PI: Ojika)
- Barau Dikko Teaching Hospital (PI: Dogara)





Initial Pioneer Data Demonstrates Dose-dependent Increases in HbF

Absolute %HbF Change from Baseline





12mg Pociredir

U.S. FDA issued a full clinical hold for pociredir on February 23, 2023. Safety data collection continued with data cutoff of March 3, 2023.



FULCRUM THERAPEUTICS

Dose Dependent, Clinically Relevant and Consistent Increases in HbF



U.S. FDA issued a full clinical hold for pociredir on February 23, 2023. Safety data collection continued with data cutoff of March 3, 2023.

*Subjects on stable dose of hydroxyurea; Note: Subject 15 ceased dosing on Day 22 ** Day 42 and day 84 data not available for subject 12; samples were received by the lab outside of stability window

Improvements in Biomarkers of Hemolysis and Anemia from initial 6mg and 12mg Pioneer data





Robust Process Implemented to Ensure Study Drug Adherence – AiCure

Smartphone application is utilized to ensure:

- Study drug adherence
 - Reminders provided to participants
 - Interactive dosing steps with guided assistance
- Robust data collection
 - Record of date, time and results of dosing
 - Close to real-time data for oversight
 - Visual recognition of participant
 - Visual confirmation of non-dosing (e.g., cheeking, spitting, removing, or wrong study drug) or wrong person



Fulcrum Therapeutics

Overview of Key Inclusion Criteria: Previous Use of Hydroxyurea AND One Other Approved Therapy

Hydroxyurea	 Continued VOC or episodes of acute chest syndrome of a least 6 months at the maximum tolerated dose Inability to tolerate the adverse effects of the therapy Unmanageable drug-drug interactions Patient refusal
And	
Voxelotor or crizanlizumab or L-glutamine	 Continued pain crises and other VOCs while on stable dose for at least 6 months Failure to increase Hb by 1 g/dL (for vox.) or continued VOC episodes (for criz. or L-glutamine) Inability to tolerate the adverse effects of the therapy Unmanageable drug-drug interactions Patient refusal
Or	
Lack of access to advanced therapies	 Lack of availability Lack of insurance coverage

We estimate that there are approximately 7,500 to 10,000 patients in the U.S. that meet the inclusion and exclusion criteria of the amended protocol



Overview of Key Inclusion Criteria: Patient Severity





Demonstrates Best-in-Class Potential

Healthy volunteer mRNA data indicate higher levels of HbF induction are possible

To date, all patients on treatment have responded

Levels of HbF increase are clinically relevant among patients both on HU and off HU

Consistency of response demonstrated across patients, independent of baseline HbF

Dose response at 2 mg, 6 mg, and 12 mg

Overall pociredir was generally well-tolerated

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Pociredir: Differentiated HbF Inducer with Best-in-Class Potential



Approximately 200,000 annual emergency department visits related to SCD

Potential to be broadly protective of SCD symptomology

Robust HbF increases in adherent patients, on and off hydroxyurea*

Phase 1b study actively

Composition of matter patent into 2040

enrolling patients



FULCRUM THERAPEUTICS





THANK YOU