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 Report (Date of earliest event reported): August 7, 2023

Keros Therapeutics, Inc. (Exact name of registrant as specified in its charter)

Delaware (state or other jurisdiction of incorporation)

001-39264 (Commission File Number)

81-1173868 (I.R.S. Employer Identification No.)

1050 Waltham Street, Suite 302

Lexington, Massachusetts (Address of principal executive offices)

Registrant's telephone number, including area code: (617) 314-6297

Not applicable

(Former name or former address, if changed since last report.)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

П Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

02421 (Zip Code) Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol	Name of each exchange on which registered
Common Stock, \$0.0001 par value per share	KROS	The Nasdaq Stock Market LLC

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Emerging growth company ⊠

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. \Box

Item 7.01 Regulation FD Disclosure.

On August 7, 2023, Keros Therapeutics, Inc. (the "Company") updated its corporate presentation for use in meetings with investors, analysts and others. The presentation is available through the Company's website and a copy is attached as Exhibit 99.1 to this Current Report on Form 8-K.

The information under Item 7.01 in this Current Report on Form 8-K, including Exhibit 99.1 attached hereto, is being furnished and shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act") or otherwise subject to the liabilities of that section. Such information and the accompanying Exhibit 99.1 are not be detended by reference in any filling of the Company under the Securities Act of 1933, as amended, or the Exchange Act, whether made before or after the date hereof, regardless of any general incorporation language in such filing, except as shall be expressly set forth by specific reference in such filing.

Item 8.01 Other Events.

During a conference call and webcast scheduled to be held at 8:00 a.m. Eastern time on August 8, 2023, the Company's management will provide an overview of TROPOS, its global Phase 2 clinical trial to evaluate KER-012 in combination with background therapy in patients with pulmonary arterial hypertension. A copy of the presentation for the conference call and webcast is attached as Exhibit 99.2 to this Current Report on Form 8-K and is incorporated by reference herein.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits Exhibit

No.		Description
<u>99.1</u>	Corporate Presentation dated August 2023.	
<u>99.2</u>	Investor Presentation dated August 2023.	
104	Cover Page Interactive Data File (the cover page XBRL tags are embedded within the Inline XBRI	document)

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.

KEROS THERAPEUTICS, INC.

By:

/s/ Jasbir Seehra Jasbir Seehra, Ph.D. Chief Executive Officer

Dated: August 7, 2023



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. Examples of these forward-looking statements include statements concerning: Keros' expectations regarding its growth, strategy, progress and the design, objectives, expected results and timing of its preclinical studies and clinical trials for KER-050, KER-047, KER-012 and KER-065; and the potential of Keros' proprietary discovery approach. Because such statements are subject to risks and uncertainties, actual results may differ materially from those expressed or implied by such forward-looking statements. These risks and uncertainties include, among others: Keros' limited operating history and historical losses; Keros' ability to raise additional funding to complete the development and any commercialization of its product candidates, KER-050, KER-047, KER-055; that Keros may be delayed in initiating, enrolling or completing any clinical trials; competition from third parties that are developing products for similar uses; Keros' ability to obtain, maintain and protect its intellectual property; and Keros' dependence on third parties in connection with manufacturing, clinical trials and preclinical studies.

These and other risks are described more fully in Keros' filings with the Securities and Exchange Commission ("SEC"), including the "Risk Factors" section of the Company's Quarterly Report on Form 10-Q, filed with the SEC on August 7, 2023, and its other documents 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 to the extent required by law, Keros undertakes no obligation to update such statements to reflect events that occur or circumstances that exist after the date on which they were made.

Certain information contained in this presentation relates to or is based on studies, publications, surveys and other data obtained from third-party sources and the Company's own internal estimates and research. While we believe these third-party sources to be reliable as of the date of this presentation, it has not independently verified, and makes no representation as to the adequacy, fairness, accuracy or completeness of, any information obtained from third -party sources. Finally, while we believe our own internal research is reliable, such research has not been verified by any independent source.

The trademarks included in this presentation are the property of the owners thereof and are used for reference purposes only.

Corporate Presentation

Focused on Transforming the Lives of Wide Range of Patients with Disorders Linked to Dysfunctional TGF-β Superfamily Signaling

Keros is a clinical-stage biopharmaceutical company

Developing potentially differentiated product candidates designed to alter transforming growth factor-beta (TGF- β) signaling and target pathways critical for the growth, repair and maintenance of a number of tissue and organ systems

We believe our product candidates have the potential to unlock the full therapeutic benefits of modulating the TGF- β superfamily and provide disease-modifying benefit to patients

	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3
HEMATOLOGY				
KER-050 therapeutic protein	Myelodysplastic Syndromes (MDS)			
KER-050 therapeutic protein	Myelofibrosis (MF)			
KER-047 small molecule	Functional Iron Deficiency (FID)-Anemia in	MDS and MF		
PULMONARY & CARDIOVASCULAR				
KER-012 therapeutic protein	Pulmonary Arterial Hypertension			
KER-012 therapeutic protein	Chronic Heart Failure with Preserved Ejectio	n Fraction/Reduced Ejection Fraction		
NEUROMUSCULAR				
KER-065 therapeutic protein	Duchenne Muscular Dystrophy			
PRECLINICAL				
Musculoskeletal				
Undisclosed Assets				
		Corporate Presentation		



Hematology Franchise

Corporate Presentation

TGF- β Superfamily Plays a Critical Role in the Maintenance of the Bone Marrow Microenvironment

Hematopoiesis, the process by which blood cells are produced in the bone marrow, requires the coordinated control of cell division, differentiation and production of the specialized cellular machinery for each cell type

 Ineffective hematopoiesis is the failure of immature blood cells to properly develop into mature cells, and may lead to low levels of circulating red blood cells (anemia), white blood cells (neutropenia) or platelets (thrombocytopenia)

TGF- β superfamily signaling regulates many processes in the bone marrow microenvironment, including:

- Differentiation and maturation of hematopoietic cells
- Iron homeostasis
- Bone turnover
- Pro-inflammatory signaling
- Motility of malignant cells

Keros is developing product candidates with the potential to address ineffective hematopoiesis and functional iron deficiency:

- KER-050: Modified activin receptor IIA (ActRIIA) ligand trap designed to bind to and inhibit signaling of select TGF-β ligands, including activin A, activin B, GDF8 and GDF11, to promote growth and differentiation of erythroid cells and platelets
- KER-047: Small molecule product candidate designed to inhibit activin receptor-like kinase-2 (ALK2) to suppress hepcidin expression and mobilize iron for incorporation into hemoglobin

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Corporate Presentation



KER-050

Investigational Treatment for Anemia and Thrombocytopenia in Patients with Myelodysplastic Syndromes

Ongoing Phase 2 Clinical Trial of KER-050 for the Treatment of Anemia in Patients with Very Low-, Low- or Intermediate-Risk Myelodysplastic Syndromes

Corporate Presentation

Myelodysplastic Syndromes (MDS)



MDS

MDS is a collection of bone marrow disorders characterized by ineffective hematopoiesis and peripheral cytopenias.



Clinical Consequences

The clinical consequences of MDS include anemia, bleeding, iron overload, cardiovascular disease and progression to acute myeloid leukemia (AML).



Survival Ranges

Median survival ranges from approximately nine years for very low-risk patients to less than a year for high-risk patients.

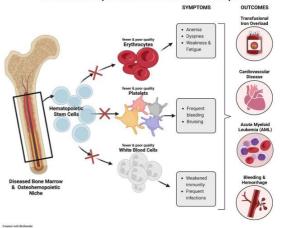


Scope

In the United States, there are 60,000 to 170,000 patients living with MDS and 15,000 to 20,000 new cases of MDS reported each year.







Novel Treatment Options are Needed to Address Unmet Need of Patients Living with MDS

Current treatment options for symptomatic anemia includes red blood cell (RBC) transfusions, erythropoiesis-stimulating agents (ESAs) and Reblozyl $^{\circledast}$

- RBC transfusions provide symptomatic relief of anemia, but are also associated with iron overload which can increase risk of AML and reduce overall survival
- + ESAs' benefit is limited to patients with low transfusion burden and low endogenous erythropoietin levels
- ▶ Reblozyl® approved for treatment of anemia in RS+ patients requiring transfusions who have failed prior ESA treatment
- Similar to ESAs, benefit primarily in low transfusion burden (LTB) patients. Only 20% of high transfusion burden (HTB) patients achieved 8-week transfusion independence with Reblozyl® versus 4% with placebo

We believe KER-050 has the potential to improve the bone marrow and restore normal hematopoiesis by targeting multiple cell lineages in MDS

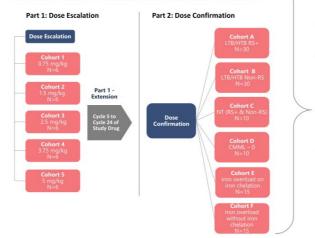
Based on data from our completed Phase 1 clinical trial of KER-050 and multiple preclinical studies, we believe KER-050 has the
potential to increase red blood cell and platelet production by acting across the spectrum of cellular differentiation and
maturation in hematopoiesis while also improving bone health

RS+: patients that have ring sideroblasts

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Ongoing Phase 2 Clinical Trial of KER-050 for the Treatment of Anemia in Patients with Very Low-, Low- or Intermediate-Risk MDS

Amended Phase 2 Clinical Trial Design and Dose Levels



KER-050 administered subcutaneously once every four weeks (Q4W)

Primary Objective: Assess safety and tolerability of KER-050

Select Efficacy Endpoints:

IWG 2006 Hematological improvement-erythroid (HI-E):

- Hemoglobin increase of ≥1.5 g/dL for 8 weeks (in NT and LTB
 patients)
- Reduction of ≥4 RBC units transfused over 8 weeks compared to baseline (in HTB patients)
- Transfusion independence (TI) for at least 8 weeks in patients who require ≥ 2 RBC units transfused at baseline

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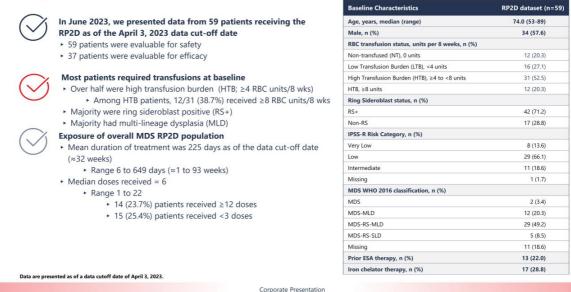
Ongoing Trial - Status as of April 3, 2023: Part 1 Dose Escalation (N=31: completed)

- RP2D: 3.75 mg/kg with the ability to titrate to 5 mg/kg Q4W
- ► RP2D Experienced Patients: N=59
 - 25 patients from Part 1

 - ► 34 patients from Part 2

Data are presented as of a data cutoff date of April 3, 2023. RP2D = Becommended Part 2 Dose; CMML: chronic myelemonocycic leukemia; high transfusion burden (HTB); >4 units of RBC/8 weeks for hemoglobin (Hgb) >9 g/dL; low transfusion burden (LTB); 1-3 units of RBC/8 weeks for Hgb >9 g/dL: nortinsfusion (NT); Hgb >10 g/dL: norti. Stratients that did not have ring sideroblasts.

Enrolled Patient Population Included Difficult-to-Treat Patients With High Disease Burden



KER-050 Was Generally Well-Tolerated

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KER-050 generally well-tolerated at RP2D of 3.75 to 5.0 mg/kg

- Most frequent treatment-emergent adverse events (TEAEs) that occurred (in ≥15% patients) regardless of causality were:
 Fatigue (22%), nausea (18.6%), diarrhea (18.6%), epistaxis
- (16.9%), COVID-19 (15.3%) and dyspnea (15.3%) • 6 TEAEs led to treatment discontinuation:
 - Related TEAEs: Injection-site reaction (Grade 2)
 - Unrelated TEAEs: Nodular melanoma; dyspnea; chronic obstructive pulmonary disease and cardiac failure congestive
 - (both in one patient), cardiac failure and myocardial infarction
- 2 fatal TEAEs (cardiac failure and myocardial infarction) determined to be unrelated to study treatment by the investigator

No patients progressed to AML

Category	RP2D dataset (n=59)
Any TEAE, n (%)	53 (89.8)
Any treatment related TEAE	19 (32.2)
Any TE serious AE (TESAE)	20 (33.9)
Any treatment-related TESAE	1 (1.7)
Any TEAE leading to death	2 (3.4)
Any TEAE leading to IMP Discontinuation ¹	6 (10.2)

¹ Related TEAEs leading to IMP discontinuation = injection site reaction; unrelated TEAEs = nodular melanoma, COPD and cardiac failure congestive (both in 1 patient), dyspnea, cardiac failure, and myocardial infarction

TEAE = Treatment Emergent Adverse Event TESAE = Treatment Emergent Serious Adverse Event IMP = Investigational Medicinal Product AML = Acute Myeloid Leukemia

Data are presented as of a data cutoff date of April 3, 2023.

Corporate Presentation

KER-050 Treatment Resulted in Hematological Response Across a Broad Population of Patients with Lower-Risk MDS

P	RP2D Patients ¹		
Response Summary	All evaluable patients	HTB evaluable patients	
Overall Erythroid Response (HI-E or TI), n (%)	19/37 (51.4)	11/22 (50)	
IWG 2006 HI-E, n (%)	19/37 (51.4)	11/22 (50)	
TI ≥8 weeks², n (%)	11/26 (42.3)	9/22 (40.9)	
RS+, n (%)	8/19 (42.1)	6/17 (35.3)	
Non-RS, n (%)	3/7 (42.9)	3/5 (60)	

1 Includes data for weeks 0-24 in RP2D patients with ≥24 weeks of treatment or who discontinued 2 TI-evaluable patients received at least 2 RBC units in the 8 weeks prior to treatment initiation

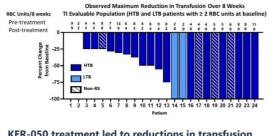
Similar rates of HI-E and TI observed regardless of transfusion burden or RS status 44.1%* of patients show a ≥30 x 10⁹/L increase from baseline in platelet count sustained over at least 8 weeks

Data are presented as of a data cutoff date of April 3, 2023.
*Percentage based on 34 patients who had at least 24 weeks of treatment or discontinued <u>AND</u> had both baseline and 8weeks of post-baseline platelet data.

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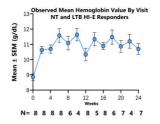
Corporate Presentation

Reductions in Transfusion Burden and Sustained Increases in Hemoglobin Observed with KER-050 Treatment



KER-050 treatment led to reductions in transfusion burden¹

- Reduced transfusion burden observed in majority of LTB and HTB patients
- TI observed in both RS+ and non-RS patients
- TI achieved in patients with baseline transfusion burden ranging from 2 to 11 units/8 weeks



KER-050 treatment demonstrated sustained

- increases in hemoglobin observed over 6 months²
 8/15 (53.3%) NT and LTB patients with ≥6 months of treatment (or discontinued) achieved HI-E response in first 24 weeks of treatment
- Observed sustained increases in hemoglobin support durable response with KER-050

Data are presented as of a data cutoff date of April 3, 2023. 1.2 patients discontinued with insufficient data to determine 8-week transfusion reduction, and are not included in this plot; 2. Baseline hemoglobin calculated as average over 8-week pre-treatment period. Hemoglobin values within 1 d days following a transfusion censored except for pre-transfusion values. Per protocol, KR-050 dose must be held at hemoglobin levels a 12 g/d.

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Corporate Presentation

Data Suggest KER-050 Elicited a Durable Response

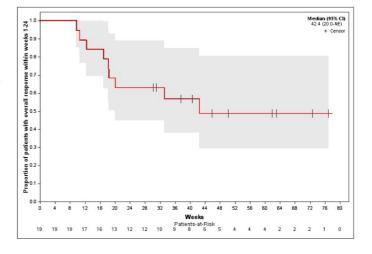


 During weeks 0-24 in RP2D patients with ≥24wk of treatment or who discontinued

Median duration of response was 42.4 weeks

10/19 patients (52.6%) had ongoing response at time of data cutoff

 Patients with ongoing response censored at time of data cutoff, denoted by vertical



Data are presented as of a data cutoff date of April 3, 2023.

Corporate Presentation



KER-050

Investigational Treatment for Anemia and Thrombocytopenia in Patients with Myelofibrosis

ngoing Phase 2 Open-Label Clinical Trial to Evaluate the Safety and Efficacy of KER-050 as Monotherapy or in Combination with Ruxolitinib in Participants with Myelofibrosis

Corporate Presentation

Myelofibrosis (MF)

MF

MF is a rare cancer of the bone marrow in which the marrow is replaced by scar tissue and is not able to produce healthy blood cells



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Clinical Consequences

MF is characterized by ineffective hematopoiesis, an enlarged spleen, bone marrow fibrosis and shortened survival. Patients often experience multiple disease-associated and treatment-emergent cytopenias, including anemia and thrombocytopenia



Current Treatments

Currently, there are limited therapeutic options to address the MFassociated cytopenias. Within a year of diagnosis, 26% of patients with MF will develop thrombocytopenia and 51% will develop anemia. Additionally, within a year of diagnosis, 38% of patients with MF are RBC transfusion dependent

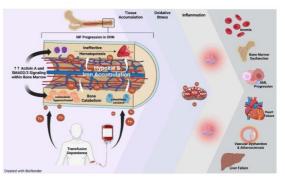


Scope

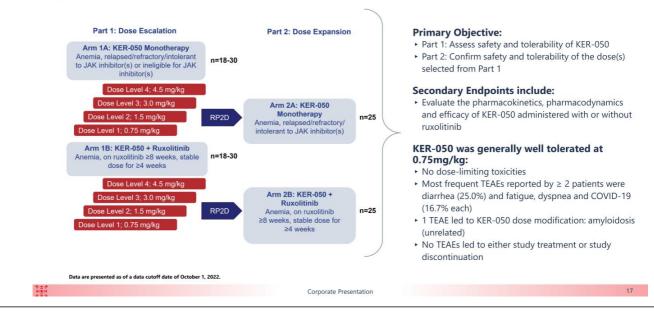
In the United States, there are 16,000 to 18,500 patients living with MF and approximately 3,000 newly diagnosed each year



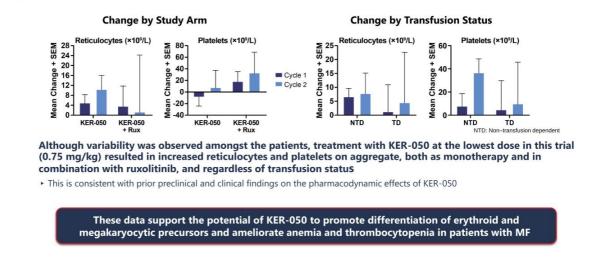
Corporate Presentation



Ongoing Phase 2 Clinical Trial to Evaluate KER-050 as Monotherapy or in Combination with Ruxolitinib in Patients with MF



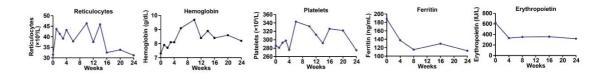
KER-050 Treatment Increased Reticulocytes and Platelets in Patients with MF



Data are presented as of a data cutoff date of October 1, 2022.

Corporate Presentation

Observed Increases in RBC Parameters and Platelets in a Patient with KER-050 Treatment (Monotherapy)



Case Study of Patient on KER-050 Monotherapy Treatment at 0.75mg/kg Q4W

- 60-year-old non-transfusion dependent female with primary MF
- Treatment with KER-050 increased hematopoiesis
 - A robust increase in reticulocytes observed after a single dose of KER-050 was followed by a sustained increase in hemoglobin (≥1.5 g/dL over baseline) and corresponding decrease in ferritin and erythropoietin with continued dosing
 - · An increase in platelets was also observed

Data are presented as of a data cutoff date of October 1, 2022.

Corporate Presentation



KER-047

A Novel Product Candidate Designed to Treat Functional Iron Deficiency That is a Consequence of Elevated ALK2 Signaling

Corporate Presentation

Increased Hepcidin Expression Leads to Functional Iron Deficiency

ALK2 signaling controls hepcidin expression, a hormone that controls iron homeostasis

Hepcidin is the master regulator of iron flux into and out of storage tissues

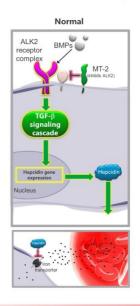
 The body responds to demands for iron by increasing or reducing the production of hepcidin, which leads to a reduction or increase in iron availability, respectively.

Elevated hepcidin is observed in chronic inflammation, iron overload or results from mutations in the regulatory proteins that control hepcidin expression

Functional iron deficiency is a condition when the body has adequate iron in the body, but the iron cannot be mobilized out of storage tissues and incorporated into RBCs, resulting in anemia

 RBC transfusions, which are used to treat anemia, can lead to iron overload and toxicity in cardiovascular and other tissues

Modulating ALK2 signaling will normalize high hepcidin levels, restore serum iron and ameliorate anemia in functional iron deficiency



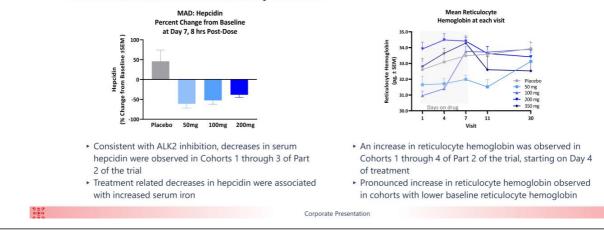
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KER-047 Treatment Reduced Hepcidin Levels and Increased Hemoglobin Content in Reticulocytes in a Phase 1 Clinical Trial

KER-047 is a novel, oral, investigational small molecule inhibitor of ALK2 with low nanomolar IC₅₀

PK/ADME: Suitable for 1x daily oral dosing

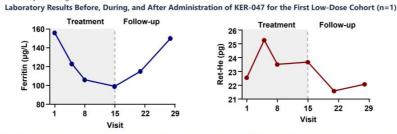
There were no serious adverse events reported in the randomized, double-blind, placebo-controlled two-part Phase 1 clinical trial of KER-047 in healthy volunteers



KER-047 Treatment of One IRIDA Patient Resulted in a Decrease in Hepcidin and an Increase in Reticulocyte Hemoglobin

In December 2022, we presented data from one patient enrolled in our open label, two-part, dose-escalation and dose-expansion Phase 2 clinical trial to evaluate KER-047 in patients with iron-refractory iron deficiency anemia (IRIDA). The patient completed 14 days of treatment with KER-047 (25mg once daily) and a 14 day-follow up

- + A dose of 25mg once daily was generally well tolerated; no serious adverse events or dose limiting toxicities were observed during treatment
- Consistent with results from our Phase 1 clinical trial of KER047 in healthy volunteers, we observed decreases in hepcidin and serum ferritin as well as
 increases in reticulocyte hemoglobin

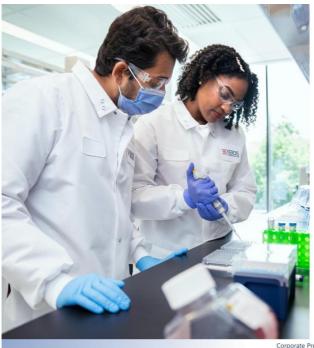


We terminated this trial early, having observed data in the one patient enrolled that we believe is suggestive of proof of mechanism. The early termination was not on the basis of any safety concerns

We are conducting an open label, two-part Phase 2 clinical trial to evaluate response-guided dose titration of KER-047 in MDS and MF patients with functional iron deficiency. The primary objectives of this trial are to assess the safety and tolerability of KER-047. The secondary objectives of this trial are to evaluate the pharmacokinetics, pharmacodynamics and preliminary efficacy of KER-047.

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Corporate Presentation



Pulmonary and Cardiovascular Franchise

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KER-012

Investigational Treatment for Pulmonary Arterial Hypertension (PAH) and for Cardiovascular Disorders

Ongoing Randomized, Phase 2, Double-blind, Placebo-Controlled Clinical Trial to Evaluate the Safety and Efficacy of KER-012 in Combination with Background Therapy in Adult Participants with Pulmonary Hypertension

Corporate Presentation

Imbalances in TGF- β Superfamily Signaling Underlies Vascular Remodeling in PAH

PAH is a debilitating disorder characterized by elevated pulmonary vascular resistance due to increased vascular smooth muscle cell proliferation and inflammation

- This results in diminished oxygenation, impaired cardiac output, and right ventricle (RV) overload
- Patients experience shortness of breath, fatigue, fainting, chest pain, palpitations and swelling of extremities and abdomen. Despite current treatment options, the 5-year survival remains only slightly above 50%
- PAH is associated with imbalanced TGF-β superfamily signaling, including insufficient bone morphogenic protein (BMP) signaling and increased signaling by activins and GDFs

KER-012 is a modified activin receptor IIB ligand trap

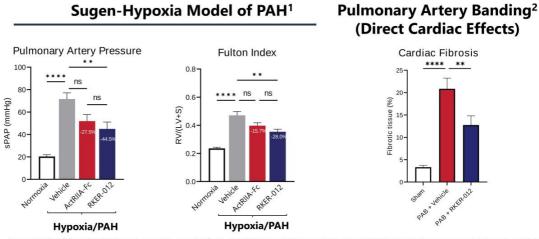
- Designed to rebalance TGF-β superfamily signaling
- Being developed for the treatment of pulmonary and cardiovascular disorders, including PAH
- KER-012 is designed to preferentially inhibit select ligands (activin A, activin B, GDF 8 and GDF 11) to potentially rebalance TGF- β superfamily signaling without a dose-limiting increase in RBCs

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RKER-012 Reduced Pulmonary Arterial Pressure, Right Ventricle Hypertrophy and Cardiac Fibrosis Observed in Rodent PAH Models



One way ANOVA followed by Sidak post-hoc test. Ns - not significant, * $p \le 0.05$, ** $p \le 0.01$, *** $p \le 0.001$. Percent change compared to hypoxia + vehicle rats.

1. K. Babbs, et al. Am J Respir Crit Care Med 2022;205:A5776; 2. Babbs K, et al. Am Heart Association Scientific Sessions 2021; RKER-012 = Research KER-012 fused with Fc region of murine IgG1
Corporate Presentation 27

Observed KER-012 Profile Supports Therapeutic Rationale in PAH

Keros completed a randomized, double-blind, placebo-controlled, two-part Phase 1 clinical trial to evaluate single and multiple ascending doses of KER-012 in healthy volunteers. • The primary objectives of this trial were safety, tolerability and pharmacokinetics.

PAH Domain	Preclinical Data	Phase 1 Clinical Trial ^{1,2}
MOA & Ligand Specificity:	 Strong activin/GDF binding observed Observed to be BMP-sparing vs. ActRIIA-Fc 	 We believe PD data support potential for maximal target engagement with doses in Phase 2
Fibrosis & Inflammation:	 ↓ Inflammation ↓ Fibrosis 	 ↓ Pro-inflammatory biomarkers ↑ Anti-inflammatory biomarkers ↓ Pro-fibrotic biomarkers ↑ Anti-fibrotic biomarkers
CV & Hemodynamics:	 ↓ Smooth muscle hypertrophy ↓ Pulmonary arterial pressure ↓ Right ventricular hypertrophy ↓ Cardiac fibrosis (direct) ↓ Ventricular dysfunction biomarkers 	ullet Ventricular dysfunction biomarkers ullet Remodeling biomarkers
Erythropoiesis (Hb/RBCs):	No increase observed	No clinically meaningful changes observe
Safety & Tolerability:	N/A	 Generally well tolerated up to 4.5 mg/kg (multiple doses) in Part 2 of the trial AEs generally mild

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Corporate Presentation





Neuromuscular Franchise

Corporate Presentation



KER-065

Designed to Address Neuromuscular Diseases, with an initial focus on Duchenne Muscular Dystrophy (DMD)

Corporate Presentation

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KER-065 Overview

KER-065 is a selective activin receptor ligand trap

 Designed to inhibit the biological effects of myostatin and activin to increase skeletal muscle and bone mass, increase fat metabolism and reduce fibrosis

▶ Being developed for the treatment of neuromuscular diseases, with an initial focus on DMD

In preclinical studies, KER-065 showed high affinity for and potent inhibition of ligands involved in the regulation of muscle and bone homeostasis. Additionally, in preclinical studies, the research form of KER-065 (RKER-065):

Increased muscle mass, muscle function and bone mass in wild-type mice

Increased muscle mass, grip strength and trabecular bone in a mouse model of DMD

We expect to initiate a randomized, double-blind, placebo-controlled, two-part Phase 1 clinical trial to evaluate the safety and tolerability of single and multiple ascending doses of KER-065 in healthy volunteers in Q1 2024

Corporate Presentation

Anticipated Key Milestones

 KER-050 Complete enrollment in transfusion-dependent cohorts in Phase 2 MDS trial Announce additional data from Part 2 of Phase 2 MDS trial Announce dose escalation data from Phase 2 MF trial Initiate Part 2 of Phase 2 MF trial 	H2 2023 H2 2023 H2 2023 H2 2023 H2 2023
 KER-047 Announce initial data from Phase 2 FID (MDS and MF) trial 	H1 2024
 KER-012 Initiate Phase 2 open-label biomarker trial in patients with chronic heart failure with preserved ejection fraction and in such patients with reduced ejection fraction 	H2 2023
 KER-065 Commence Phase 1 healthy volunteer trial 	Q1 2024

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Corporate Presentation



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KER-012 Update

Agenda

Торіс	Discussant(s)
Welcome and Introduction	Jasbir Seehra
PAH Overview and Unmet Medical Needs	Mardi Gomberg-Maitland
KER-012 Predicted MoA & Differentiation	Simon Cooper
KER012 Phase 2 PAH (TROPOS) Trial Rationale, Design	Mardi Gomberg-Maitland
Anticipated Key Milestone	Jasbir Seehra
Q&A	Open Panel
Closing Remarks & Adjourn	Jasbir Seehra

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KER-012 Update

Focused on Transforming the Lives of Wide Range of Patients with Disorders Linked to Dysfunctional TGF-β superfamily signaling

Keros is a clinical-stage biopharmaceutical company Developing potentially differentiated product candidates designed to alter transforming growth factor-beta (TGF-B) signaling and target pathways critical for the growth, repair and maintenance of a number of tissue and organ systems

We believe our product candidates have the potential to unlock the full therapeutic benefits of modulating the TGF- β superfamily and provide disease-modifying benefit to patients

	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3
HEMATOLOGY				
KER-050 therapeutic protein	Myelodysplastic Syndromes (MDS)			
KER-050 therapeutic protein	Myelofibrosis (MF)			
KER-047 small molecule	Functional Iron Deficiency (FID)-Anemia	in MDS and MF		
PULMONARY & CARDIOVASCULAR				
KER-012 therapeutic protein	Pulmonary Arterial Hypertension			e de la constante de la consta
KER-012 therapeutic protein	Chronic Heart Failure with Preserved Ejec	tion Fraction/Reduced Ejection Fraction		
NEUROMUSCULAR				
KER-065 therapeutic protein	Duchenne Muscular Dystrophy			
PRECLINICAL				
Musculoskeletal				
Undisclosed Assets			# /	
		KER-012 Update		

Mardi Gomberg-Maitland, MD, MSC TROPOS Steering Committee Chair



Director of the Pulmonary Hypertension Program at The George Washington University Heart and Vascular Institute.

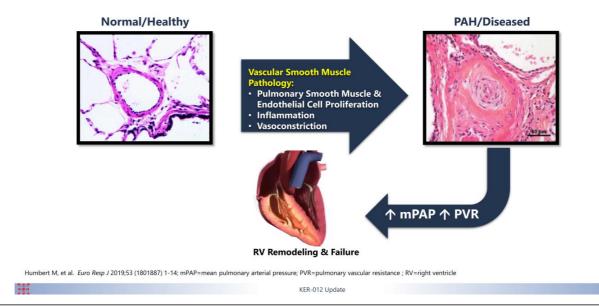
Over 150 publications, including, CHEST, Circulation, Circulation Heart Failure, European Respiratory Journal, Journal of American College of Cardiology (JACC), JACC Heart Failure, JAMA-Internal Medicine, and the New England Journal of Medicine.

Past Chair of the Pulmonary Hypertension Council at the International Society of Heart and Lung Transplantation, Vice-Chair of the Education Committee at the International Society of Heart and Lung Transplantation, Section Editor at Journal of American College of Cardiology, and an Associate Editor at both CHEST and the European Respiratory Journal.

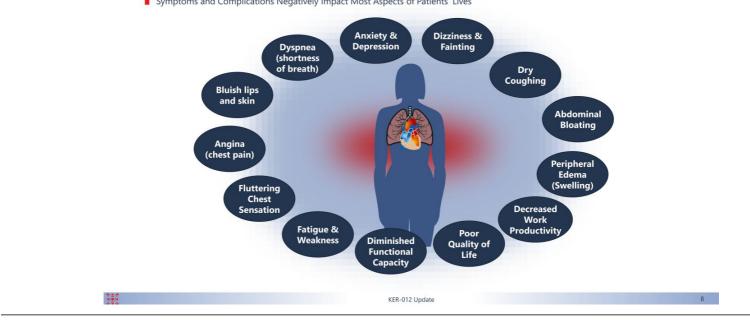


Pulmonary Arterial Hypertension Overview

PAH is Characterized by Vascular Remodeling and Dysfunction Leads to Hemodynamic Abnormalities, Disease Progression, and Severe Morbidity







Pulmonary Arterial Hypertension at a Glance A Rare, Progressive and Debilitating Disease Resulting in Significant Health and Economic Burden

Epidemiology:	~40,000 addressable PAH patients in U.S. (~59-81% Female ¹)	Reported average age at diagnosis: 36-71 years ²	
Cause & Prognosis:	~50-60% idiopathic origin (U.S./Europe) ¹	Slightly above 50% survival at 5 years	

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Current standard of care (SOC) for PAH is the use of drugs that promote vasodilation Currently available treatments do not correct the underlying biology

1. Hoeper MM, et al. Lancet Resp Med DOI:https://doi.org/10.1016/S2213-2600(15)00543-3; 2. Rothbard N, et al. Cardiol J. 2020; 27(2):184-193.

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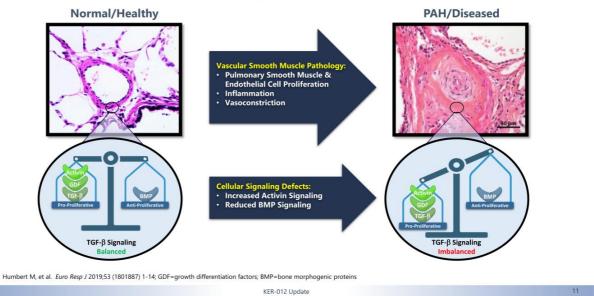


KER-012 MOA and Differentiation in PAH

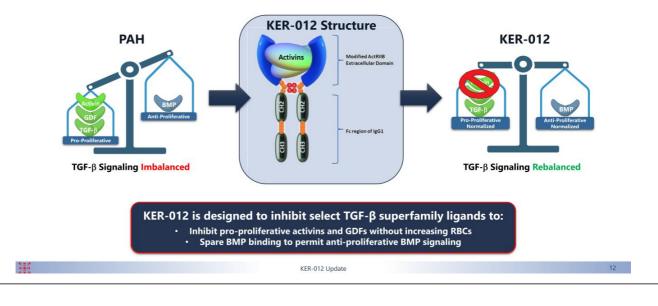


$\label{eq:product} \begin{array}{l} \textbf{PAH Pathophysiology and Disease Progression} \\ \textbf{Characterized by } TGF-\beta \ Signaling \ Imbalance \ in \ Pulmonary \ Artery \ Vascular \ Wall \ (and \ Endothelial \ Cells) \end{array}$

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KER-012 vs. Native ActRIIA In Vitro Binding Studies Support Comparable Activin/GDF Specificity and Greater BMP-Sparing of KER-012

	Strong	Semi-Strong	Semi-Weak	Wea	ak
	Activin/GDF	Ligand Binding			
	ActRIIA-Fc	KER-012 (Modified ActRIIB-Fc)		ActRIIA-Fc	KER-012 (Modified ActRIIB-Fe
Activin A	Strong	Strong	BMP-2		
Activin B	Strong	Strong	BMP-3		
Activin C	Weak	Weak	BMP-4		
			BMP-5		
GDF-8	Strong	Strong	BMP-6		
GDF-11	Strong	Strong	BMP-7		
			BMP-9		
			BMP-10		

KER-012 had lower affinity for multiple BMPs compared to ActRIIA

Gudelsky A et al American Thoracic Society 2023 Annual Meeting. Am J Respir Crit Care Med 2023;207:A378

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KER-012 vs. Native ActRIIA *In Vitro* Binding Studies Support Comparable Activin/GDF Specificity and Greater BMP-Sparing of KER-012

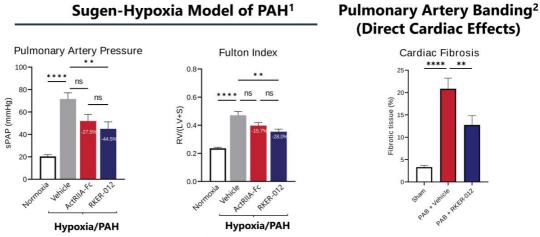
le .	Wea	Semi-Weak	Semi-Strong	Strong	
ĸ	vvea	Semi-weak	Semi-Strong	strong	
and Binding	BMP Liga				
KER-012 (Modified ActRIIB-Fc)	ActRIIA-Fc				
Weak	Semi-Weak	BMP-2			
Weak	Weak	BMP-3			
Weak	Semi-Weak	BMP-4			
Semi-Strong	Strong	BMP-5			
Weak	Strong	BMP-6			
Semi-Strong	Strong	BMP-7			
Weak	Semi-Weak	BMP-9			
	Strong	BMP-10			

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KER-012 Update

RKER-012 Preclinical Data

Reduced Pulmonary Arterial Pressure, Right Ventricle Hypertrophy, and Cardiac Fibrosis Observed in Rodent PAH Models



One way ANOVA followed by Sidak post-hoc test. Ns – not significant, * $p \le 0.05$, ** $p \le 0.01$, *** $p \le 0.001$, **** $p \le 0.0001$. Percent change compared to hypoxia + vehicle rats.

 1. K. Babbs, et al. Am J Respir Crit Care Med 2022;205:A5776; 2. Babbs K, et al. Am Heart Association Scientific Sessions 2021; RKER-012 = Research KER-012 fused with Fc region of murine IgG1

 KER-012 Update
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Observed KER-012 Profile Supports Therapeutic Rationale in PAH

 Keros completed a randomized, double-blind, placebo-controlled, two-part Phase 1 clinical trial to evaluate single and multiple ascending doses of KER-012 in healthy volunteers.

• The primary objectives of this trial were safety, tolerability and pharmacokinetics.

PAH Domain		Preclinical Data	Phase 1 Clinical Trial ^{1,2}	
Y	MOA & Ligand Specificity:	 Strong activin/GDF binding observed Observed to be BMP-sparing vs. ActRIIA-Fc 	 We believe PD data support potential for maximal target engagement with doses in Phase 2 	
000	Fibrosis & Inflammation:	$lambda$ Inflammation ψ Fibrosis	 ↓ Pro-inflammatory biomarkers ↑ Anti-inflammatory biomarkers ↓ Pro-fibrotic biomarkers ↑ Anti-fibrotic biomarkers 	
	CV & Hemodynamics:	 ↓ Smooth muscle hypertrophy ↓ PAP ↓ RVH ↓ Cardiac fibrosis (direct) ↓ Ventricular dysfunction biomarkers 	↓ Ventricular dysfunction biomarkers ↓ Remodeling biomarkers	
*	Erythropoiesis (Hb/RBCs):	No increase observed	No clinically meaningful changes observed	
6	Safety & Tolerability:	N/A	Generally well tolerated up to 4.5 mg/kg (multiple doses) in Part 2 of the trial	

1. Natarajan H., et al. American Society for Bone and Mineral Research 2022 Annual Meeting; 2. Natarajan H., et al. 2023 American Thoracic Society International Conference; PAP=pulmonary arterial pressure; RVH=right ventricular hypertrophy

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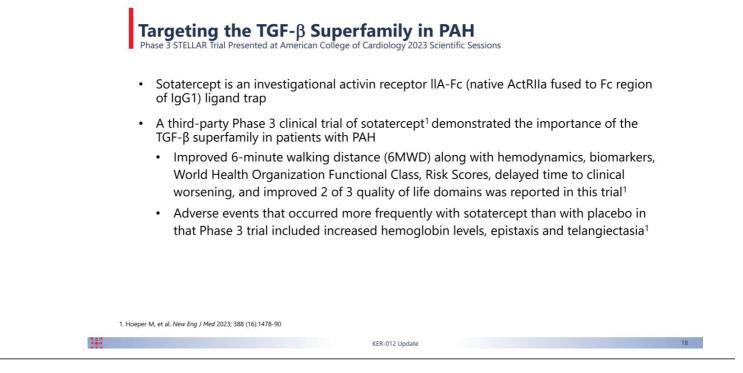


Rationale of TROPOS Trial in PAH

Mardi Gomberg-Maitland, MD, MSc George Washington University School of Medicine and Health Sciences

KER-012 Update

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Sotatercept Dosing in PAH Limited Due to On-Target AEs Doses between 0.3 mg/kg and 0.7 mg/kg administered every 21 days

Maximum dose in PAH limited to 0.7 mg/kg in the clinical trial due to increased hemoglobin observed in earlier-phase clinical trials^{1,2}

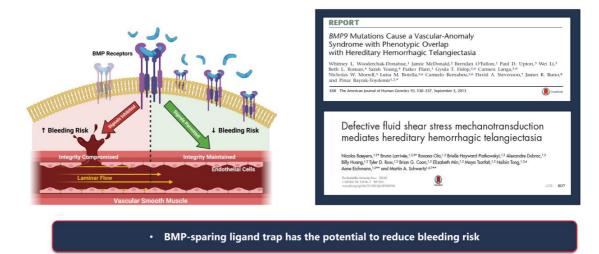
Sherman et al 2013 (Phase 1)	Humbert et al 2021 (Phase 2 PAH)	Cappellini et al 2019 (Phase 2 β-thalassemia
homoditics and Pharmecolynamic	TE NEW ENGLAND JOURNAL & NEDICINE	Sotatercept, a novel transforming growth factor β ligand trap, improves anemia in
Multiple-Dose, Safety, Pharmacokinetic, and Pharmacodynamic Study of Sotatercrept (arXthursdaw), a Novel Erythropoletic Agent, in Healthy Postmenopausal Women	Sotatercept for the Treatment of Pulmonary Arterial Hypertension Mark Humbert MD, Pio, Vollen McLaghle, MD, J. Server R. Other, MD, Mark Conferge Markan, MD, Warris M, Hongor MD, Jan R, Penton Begene Soura, MD, De J. Asam Warram, MD, P. D.	Arthalassemia: a phase II, open-label, dose-finding study Maria Demonia Coppeliai 'Join Protec' Partials Origa 'Gan Leas Font' Maria Demonia Coppeliai 'Join Protec' Partials Origa 'Gan Leas Font' Maria Demonia Companya (Joing Companya Compa
Matthew L. Sherman, MD ¹ , Niels G. Borgstein, MD ¹ , Louisa Mook, MD ¹ , Dawn Wilson, BS ¹ , Yijun Yang, ScD ¹ , Nianhang Chen, PhD ² , Ravindra Kumar, PhD ¹ , Kenneth Kim, MD ³ , and Abderrahmane Laadem, MD ²	Pater Scotbano Subase, M.D., Ph.D., Jeremy Feldman, M.D., Gasloi Mayer, M.D., David Montani, M.D., Ph.D., Yamri M. Ofsson, M.D., Solisippan Manimuran, Ph.D., Jennifer Barnes, Ph.O., Peter G. Linde, M.D., Janethe de Olivera Pena, M.D., Ph.D., and David B. Badesch, M.D., for the PULSAR Trial Investigations ¹⁰	Victorio Sung. ⁴⁴ Tatiana Zinger, ⁴⁴ Kenneth M. Attle ⁴⁴ and Olivier Hermine ⁴⁴ ¹⁴⁴ ¹⁴ Fondazione IPDCS Ca ⁴ Granda Osoedale Matelore Policinico. Desartment of Clinical

1. Sherman et al 2013 J. Clin Pharmacol 53(11) 1121–1130; 2. Humbert M et al, New Engl J Med 2023; 384:1204-15; 3. Cappellini MD et al. Haematologica 2019; 104(3) 477-484

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KER-012 Update

Loss of BMP Signaling Impairs Endothelial Function and Vascular Integrity



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KER-012 Update

TROPOS is a Global Phase 2 Clinical Trial in PAH

A Randomized, Phase 2, Double-blind, Placebo-controlled Trial to Investigate the Safety and Efficacy of KER-012 in Combination with Background Therapy in Adult Participants with Pulmonary Arterial Hypertension



Planning for ~60 sites

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Key Eligibility Criteria for Participation



Adult patients ≥ 18 years of age.

Primary diagnosis of symptomatic PAH (WHO Group 1) in subgroups:

- Idiopathic
- Heritable
- Drug or toxin-induced
- PAH associated with:
 - Connective tissue disease,
- Congenital systemic-pulmonary intracardiac shunt
- Hemodynamic parameters consistent with PAH diagnosis:
 Mean pulmonary arterial pressure (mPAP) > 20 mmHg at rest, AND
 - ► Pulmonary artery wedge pressure (PAWP) \leq 15 mmHg, AND
- Pulmonary vascular resistance (PVR) ≥ 5 Wood Units (400 dyn·sec·cm−5).

WHO/NYHA FC II or III symptoms

Stable PAH-specific background therapy (ERA/PDE5-I/sGC stimulator/prostacyclin analogue or receptor agonist).

Six-minute walk distance (6MWD) \ge 150 and \le 500 meters

 Note: Right-heart catheterization will be performed during Screening

KER-012 Update

Key Exclusion Criteria

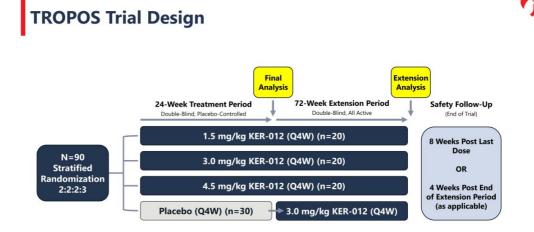


- Evidence or history of left ventricular dysfunction and/or clinically significant cardiac disease
- Has pulmonary function tests (PFTs) with evidence of significant obstructive or parenchymal lung disease
- Evidence of thromboembolic disease assessed by ventilation perfusion (V/Q) lung scan or other local standard of care diagnostic evaluation at the time of PAH diagnosis or after
- Has uncontrolled systemic hypertension
- Hemoglobin < 9 g/dL at screening
- Prior heart or heart-lung transplants, active on the lung transplant list, or life expectancy of < 12 months per Investigator assessment

- Diagnosis of pulmonary veno-occlusive disease or pulmonary capillary hemangiomatosis
- Initiation or discontinuation of an exercise program for cardiopulmonary rehabilitation within 90 days prior to baseline or planned initiation during the study
- Prior participation in a KER-012 study or prior treatment with a therapy targeting TGF-β superfamily (e.g. sotatercept)
- Prior participation in another interventional clinical study with medicinal products within 30 days or 5 half-lives prior to screening, whichever is longer.

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KER-012 Update



Approximately 90 patients diagnosed with PAH and on stable PAH background therapy will be randomized and assigned in a 2:2:2:3 ratio to the 1.5 mg/kg, 3.0 mg/kg, and 4.5 mg/kg KER-012 doses and placebo treatment arms.

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TROPOS

TROPOS Primary & Key Secondary Objective & Endpoint Pooled-Arm KER-012 Hemodynamics and Exercise Capacity Evaluated vs. Placebo over a 24-week Treatment Period



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Primary Objective	Primary Endpoint
To evaluate the effect of KER-012 on hemodynamics compared to placebo in participants on background PAH therapy	Change from baseline in pulmonary vascular resistance (PVR) at Week 24
Key Secondary Objective	Key Secondary Endpoint
To evaluate the effect of KER-012 on exercise capacity compared to placebo in participants on background PAH therapy	Change from baseline in 6MWD at Week 24

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TROPOS

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TROPOS Secondary Objectives and Endpoints Evaluated vs. Placebo over a 24-week Treatment and 72-week Extension Period

Secondary Objective	Secondary Endpoint
To evaluate the safety and tolerability of KER-012	Incidence of treatment-emergent AEs, treatment related AEs and discontinuation due to AEs; change from baseline in clinical lab values, vital signs and ECG; Incidence of ADA
To evaluate the effects of KER-012 on hemodynamics	Change from baseline in mPAP, CO, CI, PAWP, mRAP, SvO2, SV, SVI and PAC at Week 24 and Week 96
To evaluate the effects of KER-012 on NT-proBNP	Change from baseline in NT-proBNP by visit
To evaluate improvement in functional class of KER-012 compared to placebo	Proportion of participants who achieved improvement from baseline in NYHA FC/WHO by visit

ECG=electrocardiogram; CO=carbon monoxide; CI=cardiac index; mRAP=; Sv02=venous oxygen saturation;SV=stroke volume; SVI=stroke volume index; PAC=premature atrial contractions; NT-proBNP=n-terminal pro-b-type natriuretic peptide



TROPOS Exploratory Objectives and Endpoints Evaluated vs. Placebo over a 24-week Treatment and 72-week Extension Period

Exploratory Objectives	Exploratory Endpoints
To evaluate physical activity	Change from baseline in overall activity as measured by actigraphy
To evaluate improvement in additional risk stratification measures	Proportion of patients who achieve improvement in REVEAL Lite 2 and COMPERA 2.0 by visit
To evaluate the effect of KER-012 on clinical worsening	Incidence of and time to first clinical worsening
To evaluate the PD effect of KER-012 on biomarkers	Change from baseline in PAH-related biomarkers and other biomarkers by visit
To evaluate the HRQoL	Change from baseline in HRQoL measures by visit (PAH-SYMPACT and emPHasis-10)

HRQoL=health-related quality of life

KER-012 Update

Anticipated Key Milestones

 KER-050 Complete enrollment in transfusion-dependent cohorts in Phase 2 MDS trial Announce additional data from Part 2 of Phase 2 MDS trial Announce dose escalation data from Phase 2 MF trial Initiate Part 2 of Phase 2 MF trial 	H2 2023 H2 2023 H2 2023 H2 2023
 KER-047 Announce initial data from Phase 2 FID (MDS and MF) trial 	H1 2024
 KER-012 Initiate Phase 2 open-label biomarker trial in patients with chronic heart failure with preserved ejection fraction and in such patients with reduced ejection fraction 	H2 2023
 KER-065 Commence Phase 1 healthy volunteer trial 	Q1 2024

**** *1010 KER-012 Update



Questions & Answers