### **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 4, 2022

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

Delaware (state or other jurisdiction of incorporation) 001-39264 (Commission File Number)

99 Hayden Avenue, Suite 120, Building E

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) 

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

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

> 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  $\boxtimes$ 

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 5.02 Departure of Directors or Certain Officers; Election of Directors; Appointment of Certain Officers; Compensatory Arrangements of Certain Officers.

On August 1, 2022, Keros Therapeutics, Inc. (the "Company") entered into an offer letter (the "Offer Letter") with Jennifer Lachey, which superseded in full Dr. Lachey's Executive Employment Agreement dated March 16, 2020, as amended by that certain amendment dated January 1, 2022 (the "Prior Employment Agreement"), to be effective September 1, 2022. Pursuant to the Offer Letter, Dr. Lachey's schedule and benefits eligibility will be adjusted to 75% of that for a full-time employee. Dr. Lachey's base salary will also be adjusted to be 75% of her previous base salary. In addition, as of the effective date, the number of shares subject to the then unvested portions of Dr. Lachey's remaining options (the "Unvested Options") will be adjusted, such that only 75% of the number of shares subject to each of the Unvested Options will remain outstanding.

Under the terms of the Offer Letter, Dr. Lachey is no longer eligible for severance upon a termination without cause or a resignation for good reason. By entering into the Offer Letter, Dr. Lachey acknowledged that the change in her terms of employment was at her request and the Offer Letter does not constitute grounds for "good reason" pursuant to the Prior Employment Agreement.

In addition, the Board determined that the duties and responsibilities of Dr. Lachey have evolved such that she is no longer an "officer" within the meaning of Rule 16a-1(f) under the Securities Exchange Act of 1934, as amended (the "Exchange Act") or an "executive officer" within the meaning of Rule 3b-7 under the Exchange Act. She remains employed by the Company and her title has been changed from Chief Scientific Officer to Senior Vice President of Discovery.

#### Item 7.01 Regulation FD Disclosure.

On August 4, 2022, 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 Exchange Act or otherwise subject to the liabilities of that section. Such information and the accompanying Exhibit 99.1 are not incorporated by reference in any filing 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 9.01 Financial Statements and Exhibits.

(d) Exhibits

Exhibit No.	Description
<u>99.1</u>	Corporate Presentation dated August 2022.
104	Cover Page Interactive Data File (the cover page XBRL tags are embedded within the Inline XBRL 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 4, 2022





## **Corporate Presentation**

August 2022

### Disclaimer

Statements contained in this presentation by Keros Therapeutics, Inc. ("Keros", "we" or "our") regarding matters that are not historical facts are "forwardlooking 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 timing of its preclinical studies and clinical trials for KER-050, KER-047 and KER-012, including its regulatory plans; the potential impact of COVID-19 on Keros' ongoing and planned preclinical studies, clinical trials, business and operations; 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; Keros' dependence on the success of its lead pr oduct candidates, KER-050 and KER-047; 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; Keros' dependence on third parties in connection with manufacturing, clinical trials and pre-clinical studies; and risks relating to the impact on our business of the COVID-19 pandemic or similar public health crises.

These and other risks are described more fully in Keros' filings with the Securities and Exchange Commission ("SEC"), including the "Risk Factors" section of Keros' Annual Report on Form 10-K, filed with the SEC on March 9, 2022, and Keros' Quarterly Reports on Form 10-Q, filed with the SEC on May 5, 2022, and August 4, 2022 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 our own internal estimates and research. While we believe these third-party sources to be reliable as of the date of this presentation, we have not independently verified, and make 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.



## Harnessing the Powerful Biology of the TGF- $\beta$ Superfamily

- Clinical-stage biopharmaceutical company developing novel therapeutics that target the TGF-β superfamily
- Leveraging our extensive experience in TGF-β superfamily protein structure, function and protein engineering to
- generate a clinical pipeline of differentiated therapeutics:

#### Hematology

- KER-050: Modified activin receptor IIA (ActRIIA) ligand trap
  - Designed to address ineffective hematopoiesis by modulating TGF-β superfamily signaling
- Potential to correct multiple cytopenias in patients with MDS and myelofibrosis (MF)
- KER-047: Activin receptor-like kinase-2 (ALK2) inhibitor
  - Designed to address anemias resulting from iron imbalance
  - · Potential to treat iron-refractory iron deficiency anemia (IRIDA), iron deficiency anemia and other diseases

#### Pulmonary and Musculoskeletal

- **KER-012**: Modified activin receptor IIB ligand trap
  - Designed to inhibit vascular remodeling and bone loss
  - Potential to treat pulmonary arterial hypertension (PAH) and bone loss in osteogenesis imperfecta and osteoporosis

## Keros is Developing Differentiated Clinical Assets in Hematological, Pulmonary, and Musculoskeletal Disorders





# KER-050

A novel product candidate designed to address diseases arising from ineffective hematopoiesis

- Myelodysplastic syndromes
- Myelofibrosis

### KER-050: A Potential Treatment for Ineffective Hematopoiesis in Myelodysplastic Syndromes (MDS) and Myelofibrosis (MF)

#### MDS

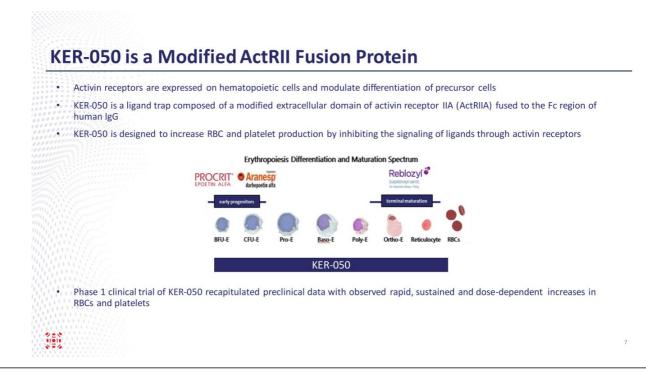
- Hematologic malignancy predominantly affecting the elderly, resulting in multiple cytopenias (anemia, thrombocytopenia, neutropenia) due to ineffective hematopoiesis
  - 60,000-170,000 MDS patients in the US with 15,000-20,000 newly diagnosed each year<sup>1</sup>
- Platelet transfusion is the current treatment option for thrombocytopenia
- Anemia treatments include red blood cell (RBC) transfusions, erythropoiesis-stimulating agents (ESAs) and Reblozyl®
  - ESAs benefit is limited to patients with low transfusion burden and low endogenous EPO levels
    - Reblozyl® approved for treatment of anemia failing ESA in RS positive patients (~15% of MDS patients) requiring transfusions
       38% responders vs 13% placebo
      - Similar to ESAs, benefit primarily in low transfusion burden

#### MF

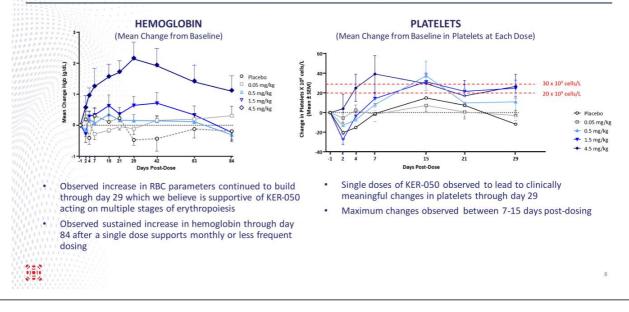
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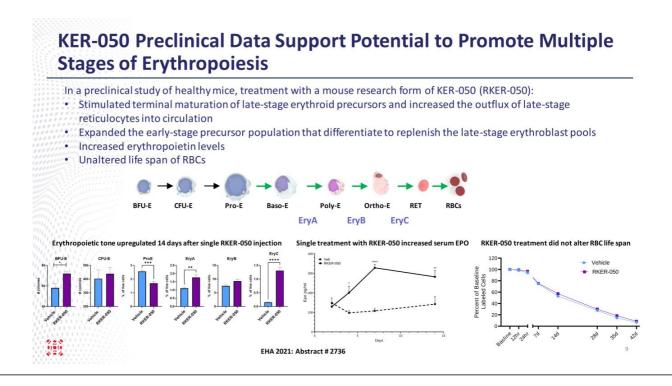
- Molecular abnormalities in the JAK-STAT pathway result in expansion of RBC and platelet precursors and subsequent ineffective hematopoiesis
- 16,000-18,500 MF patients in the US<sup>2</sup> with >3,000 newly diagnosed each year<sup>3</sup> and nearly all will become transfusion dependent<sup>4</sup>
- Megakaryocyte accumulation/breakdown is implicated in the inducement of bone marrow fibrosis
- We believe that KER-050 has the potential to address ineffective hematopoiesis, which is central to MDS and MF

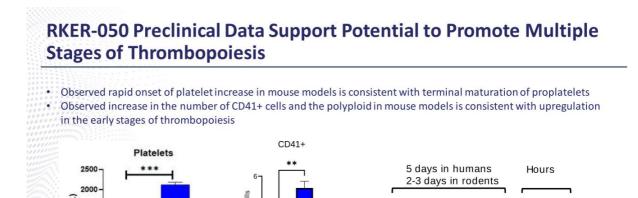
<sup>1</sup>MDS Foundation; <sup>2</sup>Gangat 2011 <sup>3</sup>Srour 2016; <sup>4</sup>Naymagon 2017



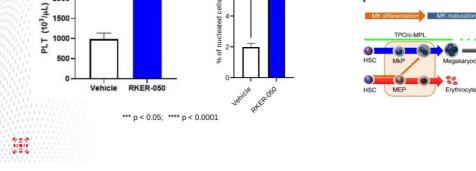
## KER-050 Increased RBC Parameters and Platelets Following Single Doses in a Phase 1 Clinical Trial in Healthy Volunteers







Vascular niche

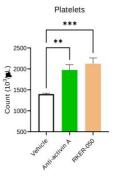


## **RKER-050 Increased Platelets Potentially Through Activin A Inhibition**

Treatment with Activin A inhibited differentiation of platelet production
 in a preclinical study in mice

- Decreased number of polyploid CD41+ cells (megakaryocytes)
- In contrast, inhibition of activin A through administration of an activin A neutralizing antibody in a preclinical study increased platelet count
- KER-050 (and RKER-050) is designed to inhibit a subset of TGF-β superfamily ligands, including activin A, activin B, GDF8 and GDF11
- In a preclinical study in mice, RKER-050 administration resulted in rapid and sustained increases in platelets, potentially through RKER-050's inhibition of activin A

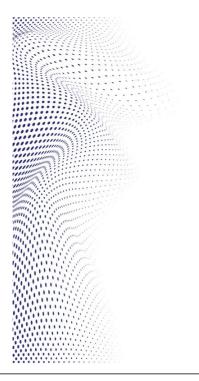
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\*\* p < 0.01, \*\*\* p < 0.001.

## **KER-050 Summary**

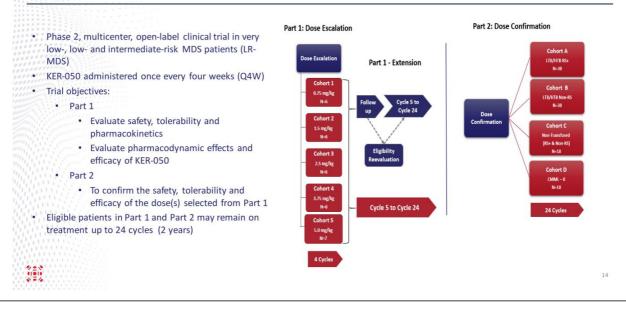
- KER-050 increased RBC parameters and platelets following single doses in a Phase 1 clinical trial in healthy volunteers
- In preclinical studies, a research form of KER-050 (RKER-050) was observed to increase RBCs and platelets, potentially through promotion of multiple stages of erythropoiesis and thrombopoiesis
- We believe that data from our preclinical studies and our Phase 1 clinical trial support that treatment with KER-050 has the potential to address ineffective hematopoiesis in diseases where multiple cytopenias arise from the blockage in progression of progenitor cells to mature blood cells, such as in MDS and myelofibrosis



## KER050-MD-201

A Phase 2 Clinical Trial Of KER-050 For The Treatment Of Anemia In Patients With Very Low, Low Or Intermediate Risk Myelodysplastic Syndromes (MDS)

## Phase 2 Clinical Trial of KER-050 in MDS



### Phase 2 Clinical Trial of KER-050 in MDS

#### Key Eligibility Criteria:

- MDS with very low-, low-, or intermediate-risk disease, as classified by the International Prognostic Scoring System-Revised, including both patients that did not have ring sideroblasts (non-RS) and patients that have ring sideroblasts (RS+)
- ESA naïve and experienced patients are eligible
- No prior treatment with azacitidine, decitabine, lenalidomide, luspatercept or sotatercept
  - Anemia, categorized in one of the following three groups:
    - Non-transfused (NT): hemoglobin (Hgb) <10 g/dL
    - Low transfusion burden (LTB): 1-3 units of RBC/8 weeks, Hgb <10 g/dL
    - High transfusion burden (HTB): ≥4 units of RBC/8 weeks

#### 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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## **Trial Status and Baseline Characteristics**

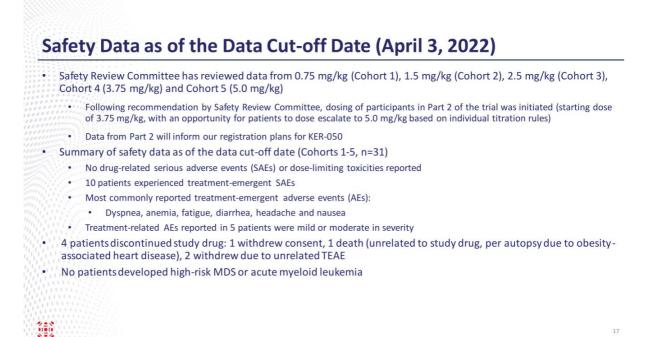
- Data cut-off date: April 3, 2022
- Safety data from Cohorts 1 through 5 (0.75, 1.5, 2.5, 3.75 and 5.0 mg/kg, respectively)
  - 31 patients in Cohorts 1 through 5 received at least one dose of KER-050 as of the data cut-off date

#### • Efficacy data from Cohorts 1 through 5:

- 27 patients in Cohorts 1 through 5 completed 8 weeks of evaluation and treatment with KER-050 as of the data cut-off date (which we refer to as the "evaluable patients"), comprised of:
  - 5 NT patients; 6 LTB patients; and 16 HTB patients
  - 2 LTB patients required <2 RBC units at baseline
  - Of the 20 LTB and HTB patients that required ≥2 RBC units at baseline, 8 were non-RS and 12 were RS+

16

• 87% of patients had multilineage dysplasia



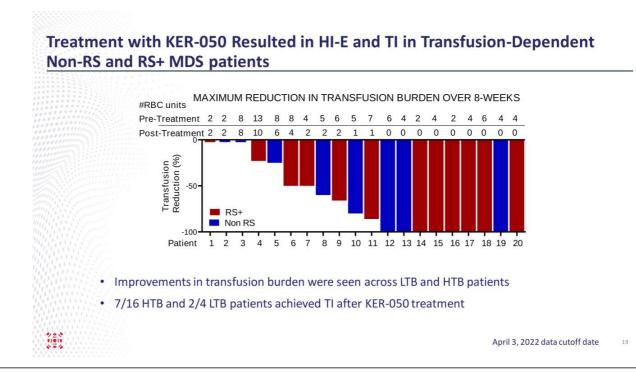
### Efficacy Summary of 8-Week Endpoints Achieved in MDS Patients

Response Summary	Response Rate, n/m (%)		
	All evaluable patients	HTB evaluable patients	
Overall Erythroid Response (HI-E or TI)	14/27 (51.9%)	11/16 (68.8%)	
IWG 2006 HI-E	12/26 (46.2%)	11/16 (68.8%)	
Transfusion independence (TI*) RS+ Non-RS	9/20 (45%) 6/12 (50%) 3/8 (37.5%)	7/16 (43.8%) 4/9 (44.4%) 3/7 (42.9%)	

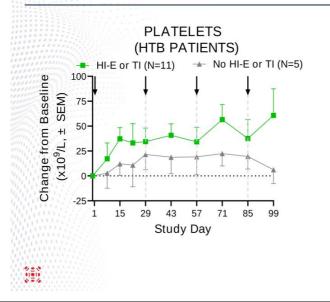
\*Baseline Transfusion Requirement ≥2 RBC units

n = responders in each category; m = 8-week evaluable population as of data cutoff date

April 3, 2022 data cutoff date 18



# Sustained Increase in Platelets Observed in HTB Patients Achieving HI-E or TI with KER-050 Treatment

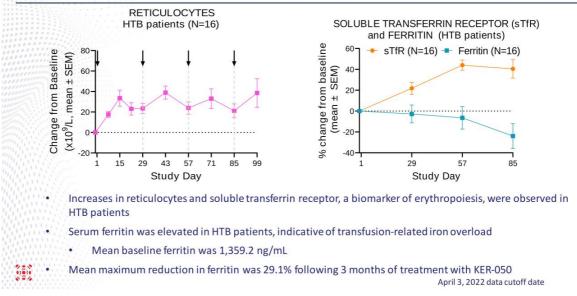


### KER-050 upregulated thrombopoiesis

- Sustained increases in platelets observed in HTB patients achieving HI-E or TI endpoints
- No patients required dose reduction due to thrombocytosis
- Preclinical data demonstrate this effect could potentially be mediated by KER-050 inhibition of activin A

April 3, 2022 data cutoff date 20

### **Observed Changes in Hematologic and Ferrokinetic Biomarkers Support Induction of Erythropoiesis with KER-050 Treatment in all HTB Patients**



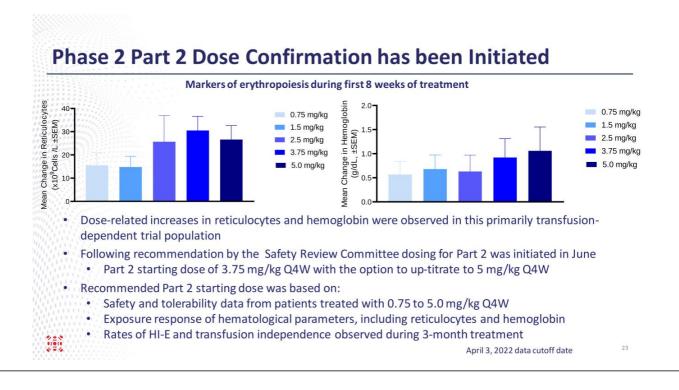
## Summary of KER-050 Phase 2 Clinical Trial

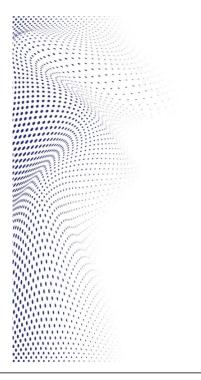
• LR-MDS patients enrolled in Part 1 of this Phase 2 clinical trial were primarily transfusion-dependent with multilineage dysplasia

- 58% of patients were HTB patients with elevated serum ferritin
- KER-050 was generally well-tolerated as of data cut-off date at doses ranging from 0.75 to 5.0 mg/kg Q4W
- No drug related SAEs or dose-limiting toxicities were observed
- Observed PD effects in reticulocytes, soluble transferrin receptor and platelets support the proposed KER-050 mechanism of increasing hematopoiesis
- HI-E and transfusion independence have been observed in both RS+ and non-RS MDS patients treated with KER-050 across varying transfusion burdens, with 44% of HTB patients achieving TI during this 3-month treatment trial
  - Reductions in serum ferritin were also observed in HTB patients
- These preliminary data support the potential of KER-050 as a treatment for multilineage cytopenias in LR-MDS, including difficult-to-treat HTB patients



April 3, 2022 data cutoff date 22





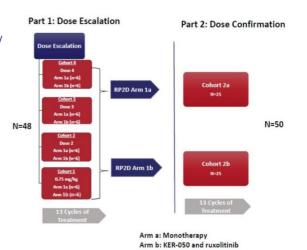
## KER050-MF-301

A Phase 2 Clinical Trial to Evaluate KER-050 as a Monotherapy or in Combination With Ruxolitinib in Myelofibrosis

## Phase 2 Clinical Trial of KER-050 in Patients with Myelofibrosis-Associated Cytopenias

- Ongoing open label, two-part, multiple ascending dose Phase 2 clinical trial to evaluate KER-050 as a monotherapy and in combination with ruxolitinib in participants with myelofibrosis-associated cytopenias
- Primary objectives: safety and tolerability

- Secondary objectives: evaluate the pharmacokinetics, pharmacodynamics and efficacy of KER-050 administered with or without ruxolitinib
- Expect to report initial data from this trial by the end of 2022





## **KER-047**

A novel product candidate designed to address:

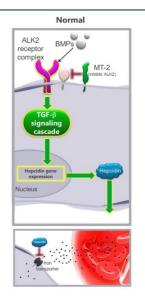
- Anemia resulting from iron imbalance
  Iron Refractory Iron Deficiency Anemia (IRIDA)
  Iron deficiency anemia (IDA)

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## **ALK2** Regulates Hepcidin and Iron Homeostasis



- Excessive ALK2 signaling results in high hepcidin and a shortage of iron availability for RBC production
- ALK2 signaling requires BMP ligand and the co-receptor hemojuvelin
- Hepcidin expression is tightly regulated and controls expression of the ALK2 suppressor protease MT-2
  - The genetic disease iron-refractory iron deficiency anemia (IRIDA) is characterized by loss of MT-2
  - High hepcidin has also been implicated in anemia of inflammation
- Modulating ALK2 signaling will normalize high hepcidin levels, restore serum iron and ameliorate anemia



# Inhibition of ALK2 Demonstrated Activity in Rodent Models of Iron Imbalance

ALK2 inhibition decreased hepcidin and increased serum iron in mice

- In a mouse model of IRIDA, treatment with ALK2 inhibitors reduced hepcidin and ameliorated anemia
- In a mouse model of chronic kidney disease, chronic inflammation resulted in increased hepcidin, reduced serum iron and anemia
  - Treatment with an ALK2 inhibitor reduced hepcidin, increased serum iron and resolved anemia
- Frequent infusions of red blood cells or iron (intravenous) results in iron overload in the liver, heart and other tissue
  - Treatment with an ALK2 inhibitor mobilized the iron and reduced iron deposits in the liver in mice

Inhibition of ALK2 has the potential to restore iron balance and treat patients with anemia and patients with iron overload

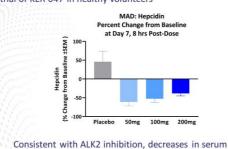
## Phase 1 Clinical Trial: KER-047 Treatment Led to Reduced Hepcidin Levels and Increased Hemoglobin Content in Reticulocytes

- KER-047 is a small molecule inhibitor of ALK2 with low nanomolar IC<sub>50</sub>
- PK/ADME: Suitable for 1x daily oral dosing

of the expanded trial

increased serum iron

• 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



hepcidin were observed in Cohorts 1 through 3 of Part 2

Treatment related decreases in hepcidin resulted in

Mean Reticulocyte Hemoglobin at each visit

 An increase in reticulocyte hemoglobin was observed in Cohorts 1 through 4 of Part 2 of the expanded trial, starting on Day 4 of treatment

29

Pronounced increase in reticulocyte hemoglobin observed in cohorts with lower baseline reticulocyte hemoglobin

## Phase 2 Trials to Provide Proof-of-Concept for Treatment of Anemia Resulting from Iron Imbalance, Including IDA and IRIDA

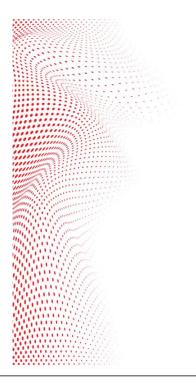
#### Iron Deficiency Anemia

- KER-047 is designed to re-establish normal iron homeostasis by mobilizing iron out of tissues, thereby ameliorating anemia
- We plan to initiate a Phase 2 clinical trial in patients with iron deficiency anemia in H2 2022 and expect to report initial data from this trial in H1 2023

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#### IRIDA

- KER-047 is designed to normalize high hepcidin levels, restore serum iron and ameliorate anemia
- We initiated a Phase 2 clinical trial in patients with IRIDA and expect to report initial data from this trial by the end of 2022



# KER-012

A clinical program designed to address:

- Pulmonary arterial hypertension (PAH)
- Bone loss disorders such as osteoporosis and osteogenesis imperfecta

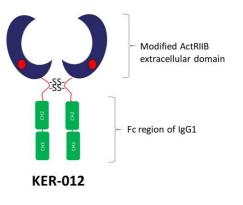


## **KER-012** is Designed to Address PAH and Bone Disorders

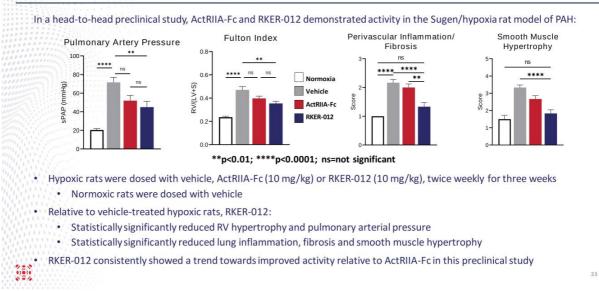
- KER-012 is a proprietary, wholly-owned, investigational ligand trap
- Modified ActRIIB fused to the Fc region of IgG1
- KER-012 is designed to bind and inhibit activins and SMAD 2/3 signaling
- In preclinical studies, a research form of KER-012 (RKER-012):

Reduced inflammation, fibrosis and vascular remodeling in a rat
Sugen/hypoxia model of PAH

- Increased trabecular bone volume, bone volume fraction, trabecular number, trabecular thickness and reduced trabecular separation in the Sugen/hypoxia rat model
- Did not increase red blood cells (RBCs) in rodents or cynomolgus monkeys in single and multiple dose studies
- A Phase 1 clinical trial in healthy postmenopausal volunteers is ongoing

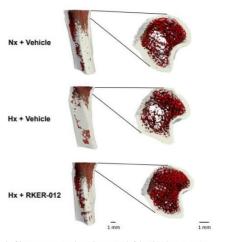


### **RKER-012 Reduced Pulmonary Arterial Pressure and Right** Ventricle (RV) Hypertrophy in a Rat PAH Model

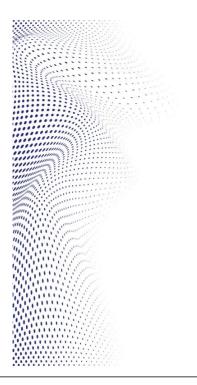


#### **RKER-012** Prevented Bone Loss in a Rat PAH Model

- In a separate preclinical study, RKER-012 demonstrated activity in improving bone mass in the Sugen/hypoxia rat model of PAH
  - Hypoxic rats were dosed with vehicle or RKER-012 (20 mg/kg), twice weekly for four weeks
  - Normoxic rats were dosed with vehicle
- Hypoxic rats dosed with vehicle exhibited decreased bone volume, bone volume fraction and trabecular number, and increased trabecular separation compared to normoxic controls
- RKER-012 prevented loss of bone volume, bone volume fraction, trabecular number, and reduced trabecular separation that was observed in vehicle-treated hypoxic rats
- Taken together, we believe this preclinical data suggests that:
  - RKER-012 potentially inhibited activins and growth differentiation factor ligands (GDFs), which are negative regulators of bone
  - Inhibition of activins and GDFs also potentially facilitated
     signaling of bone morphogenetic proteins (BMPs), factors that
     promote bone growth
  - RKER-012 protected rats from PAH-induced bone loss

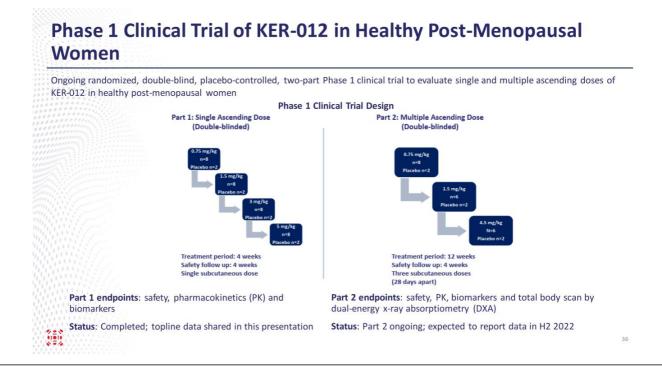


(Left) Representative three-dimensional of the tibia demonstrating trabecular architecture is reduced in Hx + Vehicle compared to Nx + Vehicle and Hx + RKER-012. (Right) Transverse cross section of the proximal tibia depicting trabecular (red) and cortical (opaque) bone; Scale bar = 1 mm.



# **KER-012 Phase 1 Clinical** Trial

A Randomized, Double-Blind, Placebo Controlled, Two-Part, Dose-Escalation Phase 1 Clinical Trial to Evaluate the Safety, Tolerability, Pharmacokinetic, and Pharmacodynamic Effects of KER-012 in Healthy Post-Menopausal Women



Inclusio	on:
•	Postmenopausal female aged 45 to 70 years (inclusive) at screening
	<ul> <li>NOTE: Postmenopausal is defined as ≥ 6 months of spontaneous amenorrhea <u>OR</u> 6 weeks postsurgical bilateral oophorectomy with or without hysterectomy</li> </ul>
	Serum follicle-stimulating hormone (FSH) levels > 40 IU/L
Exclusio	on:
•	Clinically significant (as determined by the investigator) cardiac, endocrinologic, hematologic, hepatic, immunologic, metabolic, urologic, pulmonary, neurologic, dermatologic, psychiatric, renal, and/or other major disease
111 ( <b>•</b> )	History of osteoporosis or any past treatment for osteoporosis
	Hormone replacement therapy (i.e., estrogen, or estrogen plus progesterone) within 3 months prior to dosing or plans to begin hormone replacement therapy at any time during the study. Local estrogen therapy for vaginal atrophy is permitted
• • •	Systemic glucocorticoid therapy for more than 1 month within 6 months before screening
	Medications that may affect muscle function, including muscle anabolic agents and high intensity statins, within months prior to dosing (moderate stable doses of statins are permitted)
1111.	Antiresorptive and anabolic osteoporosis treatments within 1 year prior to dosing

## Safety, Tolerability and PK (Part 1 SAD)

- KER-012 was generally well tolerated at doses up to 5 mg/kg when administered as a single dose
- There were no serious adverse events observed in Part 1

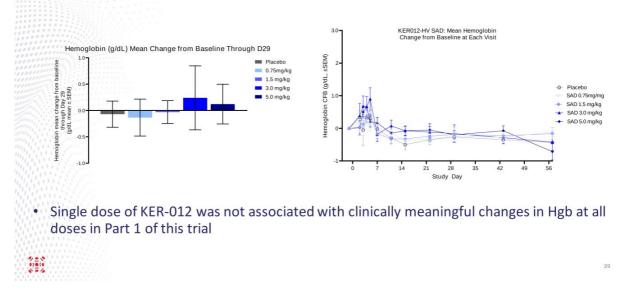
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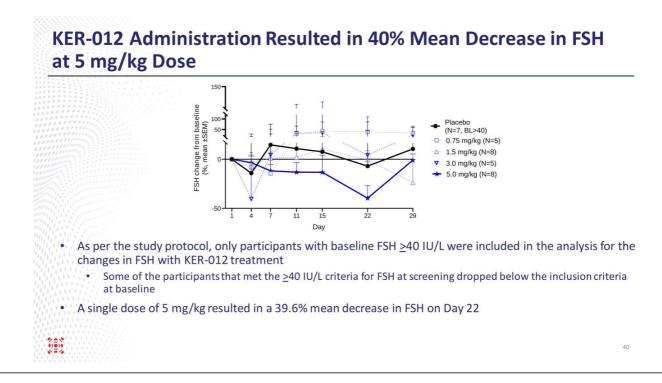
• The majority of adverse events observed in Part 1 were mild in severity (CTCAE Grade 1)

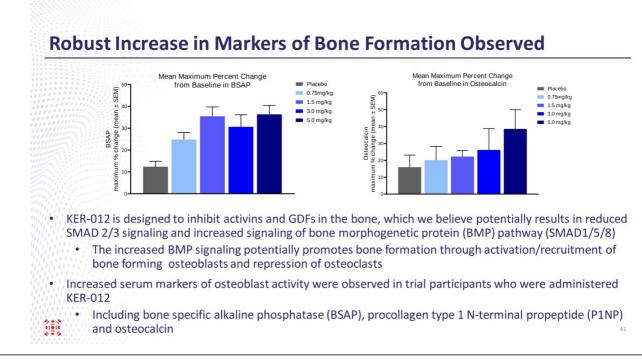
38

- No clinically meaningful changes in hemoglobin (Hgb), RBCs or reticulocytes were observed at doses up to 5 mg/kg when administered as a single dose
- PK parameters were generally dose proportional with increasing doses

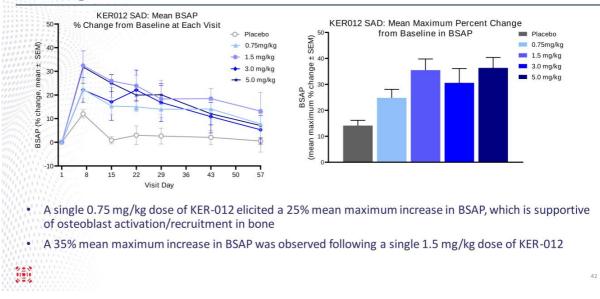
## No Clinically Meaningful Change in Hgb Observed with KER-012 Administration of up to 5 mg/kg







# **Observed Mean Maximal Increase in BSAP at Doses of 1.5 mg/kg and Higher**



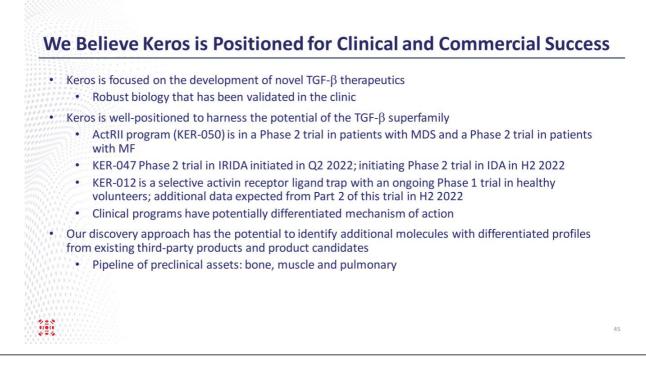
#### KER-012 Part 1 SAD Summary

- KER-012 was generally well tolerated at all doses up to 5 mg/kg when administered as a single dose in healthy postmenopausal women
- KER-012 was associated with generally dose proportional exposure
- Maximal target engagement was observed following a single 5 mg/kg dose of KER-012 (39.6% mean reduction in FSH on Day 22)
- No clinically meaningful changes in Hgb or RBCs were observed at doses up to 5 mg/kg when administered as a single dose
- Robust changes in markers of bone formation were observed, starting at the lowest dose of 0.75 mg/kg
- Mean maximal increases in BSAP as high as 36.4% were observed at the higher dose cohorts (1.5, 3 and 5 mg/kg), which is similar to the mean maximal increase observed with other ligand traps, including KER-050
- The observed KER-012-mediated increases in BSAP are consistent with restoration of BMP signaling; Keros believes this supports the development of KER-012 as a potential treatment for patients with PAH, which is associated with reduced BMP signaling
- Keros believes the preclinical data and data from Part 1 of its ongoing Phase 1 clinical trial support that KER-012 has the potential to treat patients with PAH without a potentially dose-limiting red blood cell effect, if approved

43

Part 2 of this trial (multiple ascending dose) is ongoing; expected to report data in H2 2022





# Anticipated Key Milestones\*

KER-050	
<ul> <li>Announce additional data from Phase 2 trial in MDS</li> </ul>	End of 2022
Announce initial data from Phase 2 trial in myelofibrosis	End of 2022
KER-047	
Announce initial data from Phase 2 in IRIDA	End of 2022
Initiate Phase 2 trial in IDA	H2 2022; Initial data H1 2023
KER-012	
Announce additional data from Part 2 of Phase 1 trial	H2 2022
<ul> <li>Announce design of Phase 2 trial in PAH</li> </ul>	Early 2023
228 Autoined divised milesteres are subject to the impact of COVID 10 on our hydroge	
*Anticipated clinical milestones are subject to the impact of COVID-19 on our business.	

46

