

## Second Quarter 2024 Business Update

August 8, 2024



### **Forward-Looking Statements**

Various statements in this presentation concerning the future expectations, plans and prospects of Scholar Rock Holding Corporation and Scholar Rock, Inc. (collectively, "Scholar Rock"), including without limitation, Scholar Rock's expectations regarding its strategy, its product candidate selection and development timing, including timing for the initiation of and reporting results from its preclinical studies and clinical trials for SRK-439, apitegromab, SRK-181 and other product candidates and indication selection and development timing, its cash runway, the ability of any product candidate to perform in humans in a manner consistent with earlier nonclinical, preclinical or clinical trial data, and the potential of its product candidates and proprietary platform. The use of words such as "may," "could," "might," "will," "should," "expect," "plan," "anticipate," "believe," "estimate," "project," "intend," "future," "potential," or "continue," and other similar expressions are intended to identify such forward-looking statements for the purposes of the safe harbor provisions under The Private Securities Litigation Reform Act of 1995. All such forward-looking statements are based on management's current expectations of future events and are subject to a number of risks and uncertainties that could cause actual results to differ materially and adversely from those set forth in or implied by such forward-looking statements. These risks and uncertainties include, without limitation, that preclinical and clinical data, including the results from the Phase 2 trial of apitegromab or Part A or Part B of the Phase 1 trial of SRK-181, are not predictive of, may be inconsistent with, or more favorable than, data generated from future or ongoing clinical trials of the same product candidate, including the Phase 3 clinical trial of apitegromab in SMA and Part B of the Phase 1 clinical trial of SRK-181, respectively, Scholar Rock's ability to provide the financial support, resources and expertise necessary to identify and develop product candidates on the expected timeline, the data generated from Scholar Rock's nonclinical and preclinical studies and clinical trials, information provided or decisions made by regulatory authorities, competition from third parties that are developing products for similar uses, Scholar Rock's ability to obtain, maintain and protect its intellectual property, the success of Scholar Rock's current and potential future collaborations, Scholar Rock's dependence on third parties for development and manufacture of product candidates including, without limitation, to supply any clinical trials. Scholar Rock's ability to manage expenses and to obtain additional funding when needed to support its business activities and establish, maintain strategic business alliances and new business initiatives, and our ability to continue as a going concern as well as those risks more fully discussed in the section entitled "Risk Factors" in Scholar Rock's Form 10-K for the year ended December 31, 2023, and Quarterly Report on Form 10-Q for the guarter ended June 30, 2024, as well as discussions of potential risks, uncertainties, and other important factors in Scholar Rock's subsequent filings with the Securities and Exchange Commission. Any forward-looking statements represent Scholar Rock's views only as of today and should not be relied upon as representing its views as of any subsequent date. All information in this press release is as of the date of the release, and Scholar Rock undertakes no duty to update this information unless required by law.

This presentation may also contain estimates and other statistical data made by independent parties and by us relating to market size and growth and other data about our industry. This data involves a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates. In addition, projections, assumptions, and estimates of our future performance and the future performance of the markets in which we compete are necessarily subject to a high degree of uncertainty and risk.

Apitegromab and SRK-181 are investigational drug candidates under evaluation. Apitegromab, SRK-181, SRK-373, SRK-256, and SRK-439 have not been approved for any use by the FDA or any other regulatory agency and the safety and efficacy of apitegromab, SRK-181, SRK-373, SRK-256, and SRK-439 have not been established.



## Introduction & Business Update

Jay Backstrom, M.D., MPH President & Chief Executive Officer



### Today's Agenda

Торіс	Speaker				
Introduction & Business Update	Jay Backstrom, President & Chief Executive Officer				
Development Update	Jing Marantz, Chief Medical Officer				
Pipeline Update	Mo Qatanani, Chief Scientific Officer				
Upcoming Milestones	Jay Backstrom				
Q&A Session					



## **Advancing Towards Commercialization**

# Selectivity is the Key

The hallmark of our differentiated platform is unparalleled selectivity

## 2

#### **Productive Platform**

Strong progress & momentum supports SRRK's scientific approach, capability to grow pipeline and ability to execute

## 3

#### **Excellent Opportunity**

SMA and obesity represent high value markets offering significant potential revenue opportunities

Next 12 – 24 months of execution is expected to be transformative for Scholar Rock



### Our Approach

Selectivity Drives Success



### RIGHT Latent TIME Form



Deep structural insights to

Industry-leading antibody design and protein engineering to selectively target latent growth factors

Optimized for efficacy and mitigates off-target effects

Traditional Target "mature" active growth factor

Scholar Rock's Target Latent Growth Factor Complex



### Scientific Platform Yielding Growing Pipeline Across High Value Therapeutic Areas

TARGET	CANDIDATE	DISCOVERY/ PRECLINICAL	PHASE 1	PHASE 2	PHASE 3
Latent Myostatin	SPINAL MUSCULAR ATROPHY Apitegromab			TOWN	SAPPHIRE
	CARDIOMETABOLIC DISORDERS Apitegromab in Obesity*			Ċ EMBRAZE	
	SRK-439 (novel anti-myostatin antibody)				
Latent TGFβ-1	IMMUNO-ONCOLOGY SRK-181: Selective context-independent, anti-latent TGFβ-1)		DRAGON		
	FIBROSIS SRK-373: Selective context-dependent (LTBP1 & LTBP3) anti-latent TGFβ-1				
RGMc	ANEMIA SRK-256: Selective anti-RGMc				
Undisclosed	NEUROMUSCULAR DISORDERS				

\*Utilized data from previously completed Ph 1 study in healthy volunteers and initiate a Ph 2 POC trial in 2024.

LTBP1=Latent transforming growth factor beta binding protein 1; LTBP3=Latent transforming growth factor beta binding protein 3; POC=Proof of concept; RGMc=Repulsive guidance molecule C; TGFβ-1=Transforming growth factor beta-1.



### **High Value Growth Opportunities**

Neuromuscular	
Disorders	

Upcoming SAPPHIRE readout - Q4 2024 Initiate study in SMA patients < 2 years old: Planned for 2025

Exploring additional neuromuscular populations

#### Cardiometabolic Disorders

Ph 2 POC EMBRAZE study enrolling: Topline data expected in Q2 2025

Advancing SRK-439 to IND

#### Immuno-Oncology

Established PoC with SRK-181 in multiple advanced solid tumors

> End of Ph 1 meeting planned

#### **Fibrosis**

Advance SRK-373, LTBP, to IND

Advancing nonclinical studies in renal and pulmonary fibrosis









Scholar Rock Strong Proprietary Platform

### Cutting-Edge Research Recognized by Global Scientific Community

#### SRK-181

Promising objective response rates, safety, and novel biomarker data highlighted in oral presentation at ASCO

#### SRK-439

Compelling new preclinical data highlighted in oral presentation at ADA

#### SRK-373

Featured on the cover of **Science Signaling** and in *Focus* article: "More Velcro for the TGFB-1 Straightjacket"

by Boris Hinz



Journal of Clinical Oncology\*









### 2024 & 2025 Anticipated Milestones

Milestones	2024	2025
<ul> <li>SRK-181 data at ASCO</li> <li>Oral presentation June 3</li> <li>Developmental Therapeutics-Immunotherapy</li> </ul>	< ◆	
<ul> <li>SRK-439 data at American Diabetes Association</li> <li>Oral presentation June 23</li> <li>New Insights into Therapeutic Strategies for Obesity and Diabetes</li> </ul>		
SRK-439 IND submission		
<ul> <li>EMBRAZE Ph 2 Trial (apitegromab in obesity)</li> <li>Trial open for enrollment</li> <li>Topline data expected in Q2 2025</li> </ul>	$\checkmark$	
<ul> <li>SAPPHIRE Ph 3 Trial (apitegromab in SMA)</li> <li>Topline readout expected in Q4 2024</li> </ul>		
Potential SMA launch in Q4 2025, if successful & approved		
<ul> <li>Study in SMA Patients &lt; 2 Years of Age</li> <li>Study design endorsed by EMA's paediatric committee</li> <li>Study initiation planned for 2025</li> </ul>		



## **Development Update**

Jing Marantz, M.D., Ph.D. Chief Medical Officer



### Why We Are Confident

1. Muscle Targeting	2. Clinical Proof-Of-Concept	3. SAPPHIRE Optimized for Success	4. TOPAZ Safety Profile
Selective muscle- targeting designed to improve motor function while minimizing off-target effects	TOPAZ clinical proof-of-concept with substantial and durable effect across broad SMA patients ages 2-21	Trial design informed by insights from TOPAZ	>90% patient retention, <sup>1</sup> well tolerated profile supports durability of treatment
Apitegromab Muscle Roar Brophy	TOPAZ	SAPPHIRE	



<sup>1</sup> Pooled nonambulatory patients

#### Motor function slowly declines despite following initial increase CHERISH/SHINE study: Long-Term Results of Nusinersen-Treated Patients

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thange (	-5 <b>-</b>						1	I	<b>△</b> –3.8 (SD:10	0.1)			<ul> <li>Decline in surgery a 2020; Sal</li> </ul>
0_	-10 -						Stu	dy Day [	Year]			Δ −10.5 (SD:5.0)	<ul> <li>TOPAZ page</li> </ul>
					-	— Tim	e Period	Similar T	o TOPAZ stu	ıdy ──►		-	treatmen
-	15												<ul> <li>Blue-shad nusinerse</li> </ul>
Early-dosed (CHERISH/SHINE) without scoliosis surgery	) n =	48 47 4	48 48 47	43	47	47	44	43	42	34	36	24	
Early-dosed (CHERISH/SHINE) with scoliosis surgery	) n =	36 35 3	36 36 36	33	36	36	35	31	33	20	25	15	
Delayed-dosed (SHINE) without scoliosis surgery	) n =	24	23 10	14	20	22	19	18	17	14			
Delayed-dosed (SHINE) with scoliosis surgery	) n =	18	17	10	17	15	16	11	13				

CHERISH Study<br/>BaselineNusinersenControlN8442Age at Screening4 years3 years

- Decline in motor function is influenced by scoliosis surgery and contractures (Wolfe 2024; Dunaway 2020; Salazar 2018)
- TOPAZ participants had ~2 years of nusinersen treatment at baseline
- Blue-shaded area represents similar duration of nusinersen treatment



### Apitegromab TOPAZ Clinical Trial: Motor Function Outcomes by HFMSE Over 48 Months Improvements Were Substantial and Sustained

**Pooled Nonambulatory Patients**<sup>1</sup>



Age 2-12 Years All Doses (N=29)



1. For the 48-month evaluation, an observed case analysis was conducted using available data by analysis timepoint, censoring any HFMSE assessments after the patient received scoliosis surgery. The analysis population pooled the nonambulatory patients (Cohorts 2 and 3) and included patients receiving either low dose (2 mg/kg) or high dose (20 mg/kg) apitegromab (inclusive of patients in Cohort 3 who switched from 2 mg/kg to 20 mg/kg in Year 2). A total of 11 patients in the population had scoliosis surgery during the study and their data was excluded from any HFMSE assessments at 48 months. Visit windows were applied to utilize data from unscheduled or early termination visits if the patient was missing the HFMSE total score at the scheduled visit. Error bars represent standard error (SE) and CI represents confidence interval. SMIN Rx=SMIN therapy. Apitegromab is an investigational drug candidate being evaluated for the treatment of spinal muscular atrophy. Apitegromab has not been approved for any use by the US FDA or any other health authority, and its safety and efficacy have not been established.



### Apitegromab TOPAZ Clinical Trial: Motor Function Outcomes by RULM Over 48 Months Improvements Were Substantial and Sustained

**Pooled Nonambulatory Patients**<sup>1</sup>



1. For the 48-month evaluation, an observed case analysis was conducted using available data by analysis timepoint, censoring any RULM assessments after the patient received scoliosis surgery. The analysis population pooled the nonambulatory patients (Cohorts 2 and 3) and included patients receiving either low dose (2 mg/kg) or high dose (20 mg/kg) apitegromab (inclusive of patients in Cohort 3 who switched from 2 mg/kg to 20 mg/kg in Year 2). A total of 11 patients in the population had scoliosis surgery during the study and their data was excluded from any RULM assessments at 48 months. Visit windows were applied to utilize data from unscheduled or early termination visits if the patient was missing the RULM total score at the scheduled visit. One patient did not have baseline RULM due to young age. Error bars represent standard error (SE) and CI represents confidence interval. SMN Rx=SMN therapy. Apitegromab is an investigational drug candidate being evaluated for the treatment of spinal muscular atrophy. Apitegromab has not been approved for any use by the US FDA or any other health authority, and its safety and efficacy have not been established.



# Summary of TOPAZ Data

Substantial and Sustained Improvement over 48 MONTHS<sup>1</sup>





Data to date has shown substantial clinical benefit that is dose-dependent

Clinical benefit continued to improve or was sustained over 48 months

Consistency across functional scales and patient-reported outcomes



Well tolerated profile and low discontinuation rate supports durability of treatment

>90% of patients remain on therapy\*

TOPAZ data suggest that apitegromab has the potential to transform care in SMA by directly addressing progressive muscle weakness

1- A total of 11 patients in the population had scoliosis surgery during the study and their data was excluded from any HFMSE and RULM assessments at 48 months. PRO=Patient Reported Outcome \*Pooled non-ambulatory cohorts



### **SAPPHIRE Trial Designed for Clinical Success**



Randomized, double-blind, placebo-controlled, parallel arm design (n=204) Enrolling patients who are on SMN-directed therapy (nusinersen or risdiplam) Completed enrollment in Q3 2023

SCREENING	TREATMENT (52 weeks)	
MAIN POPULATION (n=156) Ages 2-12 With nonambulatory Types 2 and 3 SMA	N=52 → Apitegromab (20 mg/kg IV q4w) + SMN-directed therapy	
<ul> <li>Stratified to ensure balanced allocation across the three arms:</li> <li>1. Age at SMN therapy initiation (age &lt; 5 vs. age ≥ 5)</li> </ul>	$R \longrightarrow N=52 \longrightarrow Apitegromab (10 mg/kg IV q4w) + SMN-directed therapy$ $N=52 \longrightarrow Placebo (IV q4w) + SMN-directed therapy$	
2. SMN therapy (nusinersen vs. risdiplam)		

#### **ENDPOINTS**

**Primary Efficacy:** Mean HFMSE change from baseline at 12 months

Additional Efficacy Measures: RULM, WHO, other outcome measures

Safety, PK/PD, ADA

#### Additional Data Opportunities

#### Exploratory population (age 13-21), in patients using SMN therapy

Focused upon safety & exploratory efficacy (n=48; 2:1 randomization between apitegromab 20 mg/kg vs placebo)

#### Separate open-label extension study (after patients complete 12-month treatment period) Focused upon safety & exploratory long-term efficacy



### Goals of the EMBRAZE Proof-of-Concept Study

### c EMBRAZE Study Aims to Demonstrate

- Effect of apitegromab to preserve lean mass in obese or overweight patients receiving a GLP-1 agonist
- Safety and tolerability data to provide initial support for long-term chronic use
- Explore the potential effect of apitegromab to improve metabolic profile and physical function

#### INSIGHTS GAINED FROM EMBRAZE STUDY to inform SRK-439 development

Initiated trial in May 2024, ahead of target timeline

Strong enrollment momentum Updating guidance for topline data to Q2 2025



### Enrolling Phase 2 Proof-of-Concept Study of Apitegromab in Obesity



Randomized, double-blind, placebo-controlled (n=100) Enrolling patients who are overweight or obese Enrollment ahead of schedule; topline data expected in Q2 2025



\*Participating patient will be assigned to either tirzepatide or semaglutide depending on availability.

Apitegromab dose regimen will be 10 mg/kg Q4W, based on projected exposure in the obese population comparable to that of 20 mg/kg Q4W in SMA Tirzepatide and semaglutide dose regimen will follow the United States Prescribing Information.





## **Pipeline Update**

Mo Qatanani, Ph.D. Chief Scientific Officer



#### TRANSLATIONAL SUCCESS TO THE CLINIC

### Platform and Expertise Drive Success in Clinic



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### Strong Scientific Validation and Promising Preclinical Evidence

Give Us Confidence in SRK-439



Preclinical data to date show strong potential to support healthier weight loss in combination with GLP-1 RA:

- Preservation of lean mass during GLP-1 RAinduced weight loss and improvement in metabolic parameters
- Increase in lean mass and attenuation of fat mass regain following GLP-1 RA withdrawal
- $\checkmark$
- **Greater potency** compared to an anti-ACTRII antibody



### SRK-439 Increased Lean Mass and Attenuated Regain of Fat Mass After GLP-1 RA Withdrawal in Obesity Mouse Model

#### SRK-439 Increased Absolute Lean Mass and Attenuated Regain of Absolute Fat Mass



#### Key Observations

- Considerable lean mass loss seen with semaglutide treatment as expected
- Treatment with SRK-439 led to:
  - Preservation of lean mass during semaglutide treatment
  - Significant increase in lean mass upon semaglutide discontinuation
  - Attenuation of fat mass regain upon semaglutide discontinuation





### SRK-439 Improved Body Composition After GLP 1-RA Withdrawal

#### SRK-439 Improved Proportion of Lean and Fat Mass to Total Body Weight



#### Key Observations

- SRK-439 attenuates regain of fat mass after withdrawal of semaglutide compared to IgG control
- SRK-439 leads to higher lean mass proportion after withdrawal of semaglutide compared to IgG control





### SRK-439 Is More Potent than Anti-ActRII Antibody at Maintaining Lean Mass During GLP-1 RA-Induced Weight Loss

#### Head-to-Head Comparison to Non-Selective Myostatin Inhibitor in DIO Mouse Model



Study conducted in Diet Induced Obesity (DIO) mouse model utilizing a murine chimera of SRK-439

#### Key Observations

- SRK-439 preserved semaglutide-driven lean mass loss dose-dependently and at lower doses than anti-ActRII
- Highlights efficacy of SRK-439 and avoids potential liabilities of non-selective approach of anti-ActRII antibodies
- Low target dose of SRK-439 supports subcutaneous and potentially best-in-class profile



### Leveraging Apitegromab to Inform Obesity Program





\*Expected timelines POC = Proof of Concept

## **Upcoming Milestones**

Jay Backstrom Chief Executive Officer



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### Looking Ahead: Upcoming Milestones







## **Q&A Session**



### **Company Speakers**









Jay Backstrom, M.D., MPH President & Chief Executive Officer Jing Marantz, M.D., Ph.D. Chief Medical Officer Mo Qatanani, Ph.D. Chief Scientific Officer **Ted Myles, MBA** Chief Operating Officer and Chief Financial Officer



## Thank you!

