

43rd Annual J.P. Morgan Healthcare Conference

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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 apitegromab, SRK-439, linavonkibart 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 3 trial of apitegromab or Part A or Part B of the Phase 1 trial of linavonkibart, 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; 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, including from the EMBRAZE clinical trial; 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; its ability to establish or maintain strategic business alliances; its ability to receive priority or expedited regulatory review or to obtain regulatory approval of apitegromab; its ability to expand globally and the anticipated commercial launch in the United States of apitegromab in the fourth guarter of 2025; 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 quarter ended September 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, linavonkibart, SRK-256, SRK-373, 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, linavonkibart, SRK-256, SRK-373, and SRK-439 have not been established.





Industry-leading technology, life-changing potential



To discover, develop, and deliver life-changing therapies by harnessing cutting-edge science to create new possibilities for people living with serious diseases



TODAY'S FOCUS

Scholar Rock is Moving with a Sense of Urgency **To Bring Transformative Medicines to Patients**

COMMERCIALIZE

Execute a Successful **Commercial Launch***

EXPAND

Apitegromab Development **Program: Building a Pipeline** in a Product

ADVANCE

Anti-myostatin Program into Cardiometabolic Indications



Building off ्रेयेः successful Phase 3 **SAPPHIRE results**



BLA and MAA 1Q 2025 submission on track





Initiate earlier

treatment

with OPAL study for patients under 2 years of age with SMA

Pursuing opportunities

for apitegromab in additional rare neuromuscular diseases

2Q 2025 EMBRAZE Phase 2 study results expected



IND submission on track for 3Q 2025 for SRK-439, a highly innovative myostatin inhibitor



Scholar Rock Has Succeeded Where Others Have Failed Selectivity Drives Success

Traditional Target "Mature" Active Growth Factor

Scholar Rock's Target Latent Growth Factor



Challenging to target because of high homology across superfamily



Targeting the 'cage' before growth factor is released allows for exquisite selectivity

RIGHT	Validated
TARGET	Biology
RIGHT	Latent
TIME	Form



Growing Pipeline Across High Value Therapeutic Areas

Industry-leading Anti-myostatin Programs

Our Differentiated Approach: Target Latent Growth Factor

THERAPEUTIC AREA	PRODUCT (target)	Discovery/ Preclinical	PHASE 1	PHASE 2	PHASE 3	Commercial
NEUROMUSCULAR	Apitegromab (latent myostatin)	SPINAL MUSCULAR ATROPHY		TOPAZ	SAPPHIRE	
	(undisclosed)	*Indication				
CARDIOMETABOLIC	Apitegromab (latent myostatin)	OBESITY		Ċ		
	SRK-439 (novel latent myostatin)	OBESITY				
IMMUNO- ONCOLOGY	Linavonkibart (SRK-181) (latent TGFβ1)	UC, ccRCC**	DRAGON			
HEMATOLOGY	SRK-256 (RGMc)	ANEMIA				
FIBROSIS	SRK-373 (LTBP1/3)	Fibrotic indications				



*undisclosed indication **UC=urothelial cell carcinoma; RCC=renal cell carcinoma.



Transforming the Treatment of SMA

Commercializing Apitegromab



Progressive Muscle Weakness Remains Core Unmet Need in SMA



Motor Function Over Time of Patients Treated with Nusinersen¹

What do patients seek most from a new treatment in SMA?²

97% said Improvement in muscle strength

90% said Achieving new motor function

88% said Stabilizing motor function

1. Finkel RS et al. "Final Safety and Efficacy Data From the SHINE Study in Participants With Infantile-Onset and Later-Onset SMA." Presented at Cure SMA Annual Conference, July 2024. 2. Cure SMA State of SMA Annual Report. Published May 6, 2024; Cure SMA. Education on adult patient expectations according to copy number and disease status at time of report. September 2022.; Internal Scholar Rock market research.

This information from third-party studies is provided for background purposes only and is not intended to convey or imply a comparison to the SAPPHIRE clinical trial results. HFMSE=Hammersmith Functional Motor Scale Expanded; SMA=Spinal Muscular Atrophy.



The Only Muscle-Targeted Therapy with Clinical Success in SMA

Positive Phase 3 Trial Using Gold Standard SMA Scale



SUCCESSFUL PIVOTAL TRIAL On Track to Submit BLA and MAA in 1Q 2025

* Based on apitegromab combined dose (10 mg/kg and 20 mg/kg) + SOC versus placebo + SOC (Hochberg multiplicity adjustment).

† 12.5% of patients on placebo + SOC achieved a ≥3-point improvement in HFMSE

SOC=Standard of care (i.e., nusinersen or risdiplam); HFMSE=Hammersmith Functional Motor Scale–Expanded.



Apitegromab: Potential to Transform the Standard of Care in SMA



• Despite effective SMN-targeted therapy, long-term trajectory of SMA patients remains that of progressive decline in motor function

Treatment with apitegromab has improved motor function vs. placebo

KEY

TAKEAWAYS

Finkel RS et al. "Final Safety and Efficacy Data From the SHINE Study in Participants With Infantile-Onset and Later-Onset SMA." Presented at Cure SMA Annual Conference, July 2024 *Patient age based on those received active treatment (mean or median)

1. This information from third-party studies is provided for background purposes only and is not intended to convey or imply a comparison to the SAPPHIRE clinical trial results. CI=Confidence Interval; EXP=Exploration Subpopulation; HFMSE=Hammersmith Functional Motor Scale Expanded; LS=Least Squares; MEP=Main Efficacy Population; SOC=standard of care.



Apitegromab: Shifting the Treatment Paradigm in SMA



Transformative Therapeutic Potential

- Validated with a rigorous approach: Strong trial design using a gold-standard SMA scale
- Potential to transform standard of care in SMA



Long-Term Treatment Experience

- >4 years treatment in SMA in Phase 2 TOPAZ trial
- >90% retention in TOPAZ
- 98% continuation from SAPPHIRE to ONYX long-term extension





Suitable for a Broad SMA Population

- Consistency of effect seen across age groups studied
- Long-term tolerability shown to date



Expanding our Impact: Initiating Phase 2 OPAL Trial in mid-2025

Studying apitegromab in patients under 2 years old



Reaching patients earlier in their treatment journey





CHANGING More Lives

Potential to alter the course of SMA in a broad population



Scholar Rock is Positioned for a Successful Commercial Launch

THE RIGHT...



MEDICINE

Potential to alter the course of SMA



Clear unmet need and first and only muscle-targeted therapy



PLAN

Engagement, patient focus & execution



Existing Therapies Generate ~\$4.5B in Annual Revenues Addressing the Motor Neuron



Hua Y, et al. Nature. 2011;478(7367):123-6.
 Figure adapted from: SMA Foundation Overview. <u>http://www.smafoundation.org/wp-content/uploads/2012/03/SMA-Overview.pdf</u>.; Accessed April 18, 2021.



SMA=Spinal muscular atrophy; SMN=Survival motor neuron.

\$2B+ Global Opportunity for Apitegromab in SMA



SMA patients are diagnosed, treated, and still need more to continue to improve their lives

Revenue as of Biogen 4Q23 financial update, Roche 4Q23 financial update, and Novartis 4Q23 financial update.
 Scholar Rock internal estimates as of December 2024.
 SMA=Spinal muscular atrophy; SMN=Survival motor neuron.



SMA is a Defined Market and Optimal For Apitegromab Launch

Patients are diagnosed and treated, but still need more



Patients Identified and Treated

~25K patients in US and EU

100% US newborn screening

2/3 of US patients on treatment



Clear Unmet Need

Patient, HCP, and payers recognize remaining need to improve function



Engaged Patient Community

Organized community aligned on need for muscle targeted therapy



Payer Receptivity

Established value for improving function

The SMA community is calling for new treatments to improve function



Advantaged by Deep Rare Disease Commercial Experience





Partnering With the SMA Community and Engaging Top HCPs

Disease EDUCATION



Amplifying the patient voice in first muscle-focused SMA disease education campaign

Patient ADVOCACY



Partnering with US and European patient advocacy groups

HCP ENGAGEMENT



Engaging with 100% of Cure SMA-identified centers



Preparing for a Successful Launch



- ✓ Commercial launch supply secured
- ✓ Rare disease distribution partners selected
- ♂ Home infusion at launch

- Account team with average 30 years experience engaging with US commercial and federal payers
- Efficient US customer-facing footprint of ~50 FTEs planned
- ✓ Establishing European presence





Customer Engagement

SMA is Only the Beginning: Creating Possibilities with Apitegromab in Additional Neuromuscular Diseases



Opportunities to impact more patients

Building a neuromuscular franchise is a key driver towards future growth

*Numbers represent prevalence in the US and Europe based on internal market research. SM=Spinal Muscular Atrophy; ALS=Amyotrophic Lateral Sclerosis; DMD=Duchenne Muscular Dystrophy; BMD=Becker's Muscular Dystrophy; FSHD=Facioscapulohumeral muscular dystrophy.



Apitegromab is the Foundation of a Future Multi-Billion Dollar Neuromuscular Franchise*

Unlocking value in our pipeline

by targeting various aspects of neuromuscular diseases to help people living with rare, devastating diseases Neuromuscular expansion of apitegromab into additional indications

SMA expansion with Ph 2 OPAL trial for patients under 2 and subcutaneous formulation

Global expansion, starting with Europe

Commercial Launch*



*Subject to regulatory approval.



Unlocking Value in Our Anti-Myostatin Platform

Cardiometabolic Program Update



GLP-1 RAs are Transforming Weight Loss for Millions of People

Recently approved GLP-1 RAs are highly effective in weight loss & experiencing rapid uptake









BY
2029...40 million people on GLP-1 RAs\$126 billion in Sales*





However, Patients Want Healthier Weight Loss*







"

Patients feel good about the number on the scale, but **there are issues with muscle loss** ... they complain of **weakness** or **reduced strength**.

Obesity Clinician

"

WEAKNESS is a Concern

Patients complain of reduced strength after GLP-1 RA treatment

Improved LEAN MASS

Patients hope for a combination treatment approach to address this need Significant Weight REGAIN

in 40-100% of patients after stopping GLP-1 RA treatment

Scholar Rock's unique highly selective approach to targeting latent myostatin has the potential to address these patient needs





Industry-Leading Anti-Myostatin Platform: Leveraging Apitegromab's Success to Advance the Obesity Program



Testing hypothesis of selective antimyostatin antibody in obese population

- EMBRAZE POC readout in Q2 2025
- SRK-439 IND submission in Q3 2025



Strong Scientific Validation and Promising Preclinical Evidence

SRK-439: Potential Best in Class



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

Oreservation of lean mass

Improvement in metabolic parameters

Increase in lean mass and attenuation of fat mass regain following GLP-1 RA withdrawal

Greater potency compared to an anti-ACTRII antibody

Works across the class of GLP-1 RAs









SRK-439 Protects from Tirzepatide-Induced Muscle Loss in DIO Mice

qNMR % Lean Mass Change from Baseline



Key Observations

- Considerable lean mass loss with tirzepatide treatment
- Combination with SRK-439 led to dosedependent lean mass preservation
- Lean mass preservation seen with doses as low as 0.3 mg/kg and lean mass gain at higher doses
- Dose dependent enhancement of fat mass loss also observed, improving overall body composition



Potential to Optimize Benefit-Risk with Myostatin Selectivity



Health Risks Observed with Non-Selective Inhibition of ActRII Pathway:

- GI problems, e.g., diarrhea, pancreatitis³⁻⁶
- Nose bleeds (epistaxis), low platelet count, telangiectasias⁷⁻¹⁰
- Reduction in reproductive hormones in males and females^{3, 7, 11, 12}
- Acne, rash, skin abscesses^{5, 13, 14}
- Madarosis (loss of eyebrows or eyelashes)¹⁴

Barrett et al. Adv Therapy. 2021; 2. Crawford T et al. Neurology. 2024; 3. Garito T et al. Clin Endocrinol (Oxf). 2018; 4. Amato AA et al. Neurology. 2021; 5. Heymsfield SB et al. JAMA. 2021;
 Vanhoutte F et al. J Clin Pharmacol. 2020; 7. Attie KM et al. Muscle Nerve. 2013; 8. Attie KM et al. Am J Hematol. 2014; 9. Campbell C et al. Muscle Nerve. 2017; 10. Hoeper MM et al. N Engl J Med. 2023;
 Ruckle J et al. J Bone Miner Res. 2009; 12. Sherman ML et al. J Clin Pharmacol. 2013; 13. Muntoni F et al. Neurol Ther. 2024. 14. Di Rocco M et al. Nat Med. 2023.



Data from Phase 2 Proof-of-Concept Study of Apitegromab in Obesity Expected Q2 2025



Randomized, double-blind, placebo-controlled (n=102 enrolled) Enrolled patients who are overweight or obese Enrollment completed ahead of schedule; topline data expected in Q2 2025

Screening (Up to 4 weeks)		Treatment (24 weeks)	8 weeks	
 Male or female, age ≥18 and ≤65 years old at the time of informed consent Stable body weight within 90 days of screening BMI ≥30.0 kg/m² to ≤45.0 kg/m² or ≥27.0 kg/m² to <30.0 kg/m² with the presence of 1 or more weight-related comorbid condition(s) ENDPOINTS Endpoint (Week 24) Change from baseline in lean mass by DEXA scan Secondary Endpoints Additional weight loss measures, safety & tolerability, F	- N=50 → - N=50 →	Apitegromab Q4W + tirzepatide or semaglutide* QW Placebo Q4W + tirzepatide or semaglutide* QW ADDITIONAL Exploratory Endpoints (Week 24 and 32) Cardiometabolic profile (e.g., HbA1c), body composition, physical function	(32 weeks) Primary endpoint	

*Due to expedited enrollment and timing of semaglutide clinical supply, all enrolled patients received tirzepatide. 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.



Goals of the EMBRAZE Proof-of-Concept Study

Č EMBRAZE

Study Aims to Demonstrate

- Preservation of lean mass in obese or overweight patients
- Safety and tolerability



 Potential 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 Enrollment completed in September 2024 Topline data expected in Q2 2025



Tirzepatide-Induced Weight Loss Accompanies Significant Muscle Loss







Conclusion



Delivering on the Mission of Bringing Transformative Medicines to Patients

Leveraging R&D success to build a multi-billion dollar biopharmaceutical company



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2025 Milestones: A Transformative Year for Scholar Rock

COMMERCIALIZE Apitegromab in SMA EXPAND

Apitegromab Development Program: Building a Pipeline in a Product ADVANCE Anti-myostatin Program into Cardiometabolic Indications

- Submit FDA and EMA applications in 1Q 2025
- US launch expected in 4Q 2025 and EU launch to follow*

- SMA: Under 2 study initiation planned for mid-2025
- Exploring additional neuromuscular indications

- Obesity: EMBRAZE readout expected in 2Q 2025
- SRK-439 IND filing planned for 3Q 2025



Thank you!

