

Deep Insights, Impactful Medicines

January 2021



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Announced positive 6-month interim data from apitegromab's TOPAZ Phase 2 trial in spinal muscular atrophy



Initiated and progressed patient enrollment in the SRK-181 DRAGON Phase 1 trial in cancer immunotherapy



Completed follow-on offering that raised \$230 million in gross proceeds and secured \$50 million debt facility; ended year with ~\$340M in cash and cash equivalents



FDA granted Rare Pediatric Disease Designation for apitegromab for the treatment of SMA

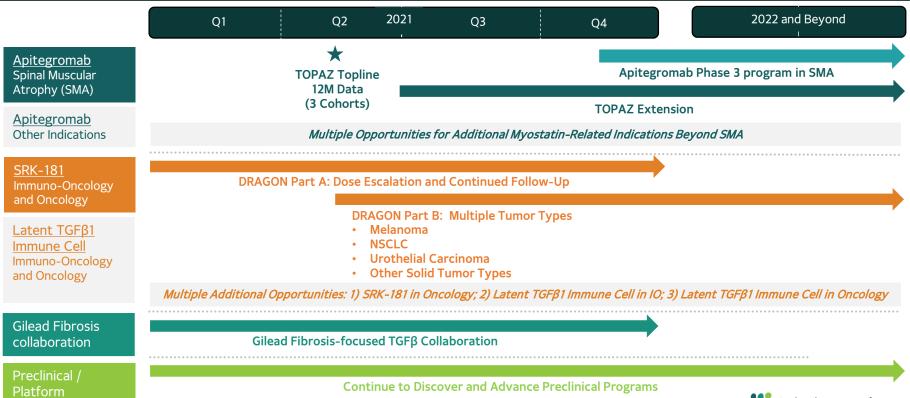


Strengthened patent portfolio; composition of matter patent for apitegromab and a patent broadly covering antibodies that modulate TGF β activation

2020 Achievements



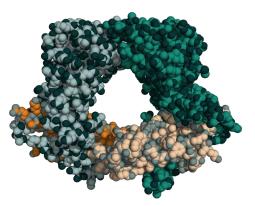
2021: Potential for Another Transformative Year



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Bringing a Revolutionary Approach to Highly Sought-After Growth Factors Implicated in Devastating Diseases

Scholar Rock's Target Growth Factor Precursor (Latent Form)



Scholar Rock's R&D Platform Transform Medical Practice

- Pursue important targets with well-validated biology but are difficult to drug
- Apply revolutionary approach to tough targets
 - Leverage deep insights into structure and function
 - Engineer antibodies for exquisite selectivity

Apitegromab interim analysis data provides first clinical demonstration of the therapeutic potential of inhibiting the latent forms of growth factors





Apitegromab: Potential First Muscle-Directed Therapy for Spinal Muscular Atrophy

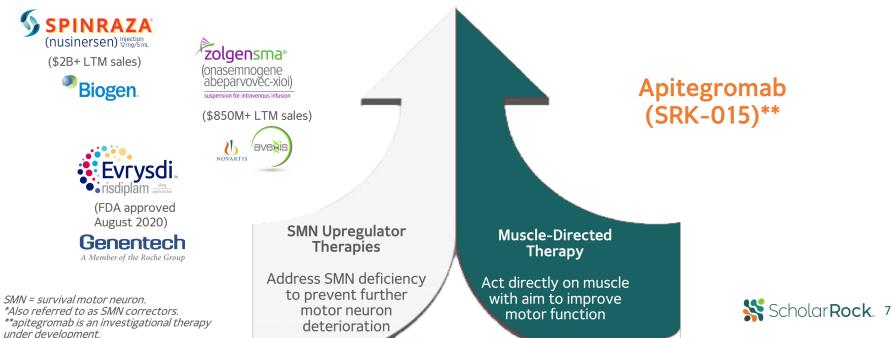




Apitegromab Has Potential to Pioneer a New Treatment Era to Improve Motor Function in Patients with SMA

SMN Upregulator Therapies* + Muscle-Directed Therapy Could Potentially Enhance Outcomes for Patients

Overall Prevalence of 30,000-35,000 in U.S. and Europe



Apitegromab Phase 2 Trial Design



	Ambulatory Patients (Revised Hammersmith Scale)	Non-Ambulatory Patients (Hammersmith Functional Motor Scale Expanded)		
	Cohort 1	Cohort 2	Cohort 3	
Design	 N= 23; ages 5-21 Open-label, single-arm 20 mg/kg apitegromab IV Q4W 12-month treatment period 	 N= 15; ages 5-21 Open-label, single-arm 20 mg/kg apitegromab IV Q4W 12-month treatment period 	 N= 20; ages ≥2 Double-blind, randomized (1:1) to 2 mg/kg or 20 mg/kg apitegromab IV Q4W 12-month treatment period 	
Patients	 Ambulatory Type 3 SMA Two subgroups: Receiving background nusinersen Apitegromab monotherapy 	 Type 2 or non-ambulatory Type 3 SMA Receiving background nusinersen 	 Type 2 SMA Receiving background nusinersen (initiated before age 5) 	
Primary Objectives	SafetyMean change from baseline in RHS	SafetyMean change from baseline in HFMSE	SafetyMean change from baseline in HFMSE	

56 patients have completed the 12-month study and all 56 have opted into the extension period*

*As of January 8, 2021 Apitegromab = non-proprietary name for SRK-015 HFMSE=Hammersmith Functional Motor Scale Expanded; RHS=Revised Hammersmith Scale Data on file. Scholar Rock, Inc. Cambridge, MA



TOPAZ Interim Analysis Results Demonstrate Proof-of-Concept

Multiple lines of evidence supporting the potential clinical effect of apitegromab

	Ambulatory Patients (Revised Hammersmith Scale)				on-Ambulatory Pa Functional Moto	tients r Scale Expanded)
	Cohort 1			Cohort 2*	t 2* Cohort 3*	
	20 mg/kg pooled (n=23)	20 mg/kg monotherapy (n=11)	20 mg/kg +nusinersen (n=12)	20 mg/kg +nusinersen (n=14)	2 mg/kg +nusinersen (n=9)	20 mg/kg +nusinersen (n=9)
Mean change from baseline (95% CI)	0.5 (-1.1, 2.2)	0.7 (-2.5, 4.0)	0.3 (-1.4, 2.0)	1.4 (0.1, 2.7)	2.4 (-0.9, 5.8)	5.6 (2.5, 8.7)
# (%) patients achieving ≥1-pt increase	12/23 (52%)	7/11 (64%)	5/12 (42%)	10/14 (71%)	6/9 (67%)	9/9 (100%)
# (%) patients achieving ≥3-pt increase	6/23 (26%)	4/11 (36%)	2/12 (17%)	3/14 (21%)	4/9 (44%)	6/9 (67%)

✓ Mean improvements from baseline in HFMSE/RHS observed in each of the 3 cohorts

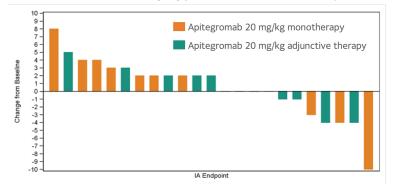
- 67% of total patients achieved ≥1-point improvement in Hammersmith scores
- ✓ Substantial proportion of patients in each cohort attained ≥3-point improvement in HFMSE/RHS
 - High bar and uncommon to observe in any given patient
 - 35% of total patients achieved ≥3-point improvement in Hammersmith scores
- ✓ Dose response demonstrated in Cohort 3 (randomized, double-blind, parallel arm design)
 - Greater improvements in HFMSE scores for high-dose arm across evaluated timepoints
 - Supportive PK/PD results; high dose led to higher drug exposure and target engagement

*3 patients (1 in Cohort 2 and 2 in Cohort 3) each missed 3 doses of apitegromab and the 6-month interim analysis timepoint due to COVID-19-related site access restrictions; the six-month timepoint from these patients was not included in the interim analysis. Data on file. Scholar Rock, Inc. Cambridge, MA

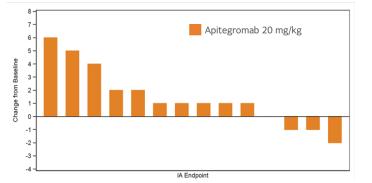


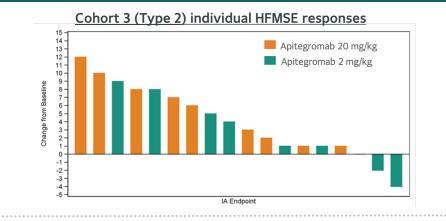
Improvements in Hammersmith Scores Observed Across All 3 Cohorts

Cohort 1 (ambulatory Type 3) individual RHS responses



Cohort 2 (Type 2 & non-amb. Type 3) individual HFMSE responses

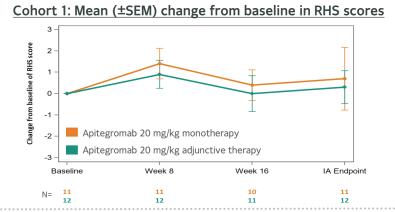




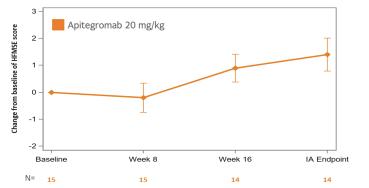
- Most patients experienced an improvement
 - 67% of total patients achieved ≥1-pt increase in Hammersmith scores
- Dose response demonstrated in Cohort 3 (randomized, double-blind, parallel arm design)
 - High-dose arm showed greater improvements; supported by PK/PD results



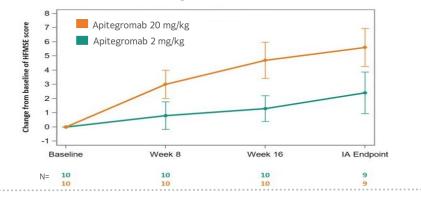
Effects on Hammersmith Scores Observed Through 6 Months of Treatment



Cohort 2: Mean (±SEM) change from baseline in HFMSE scores



Cohort 3: Mean (±SEM) change from baseline in HFMSE scores



- Plateau in improvement appears to not yet have been reached at the 6-month interim timepoint
- 12-month and extension data enable evaluation for potential durability of effect and further improvements



No Safety Signals Identified from Interim Analysis

Treatment-emergent adverse events (TEAEs)	Apitegromab 2 mg/kg dose (n=10)	Apitegromab 20 mg/kg dose (n=48)	Total (n=58)
Any TEAE	9 (90%)	40 (83.3%)	49 (84.5%)
Any Serious TEAE	0 (0.0%)	1 (2.1%)	1 (1.7%)
Any TEAE leading to study drug discontinuation	0 (0.0%)	1 (2.1%)	1 (1.7%)
Any Grade 3 (severe) or higher TEAE	0 (0.0%)	0 (0.0%)	0 (0.0%)

- Five most frequently reported TEAEs: Headache, upper respiratory tract infection, pyrexia, nasopharyngitis, and cough.
- **1 serious TEAE (Cohort 1):** Assessed by trial investigator as unrelated to apitegromab. Grade 2 viral upper respiratory infection (prior history) and was hospitalized. Event resolved without sequelae.
- **1 study drug discontinuation (Cohort 1)**: Assessed by trial investigator as unrelated to apitegromab. Grade 2 leg muscle fatigue (developed prior to enrollment). Withdrew consent after ~2 months on trial.

Incidence and severity of AEs are consistent with underlying patient population and background therapy

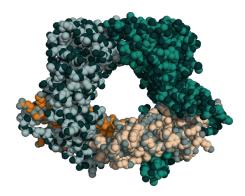
Treatment-emergent adverse events (TEAEs) are defined as AEs that start after the first dose of study drug or start prior to the administration of study drug and worsen in severity/grade or relationship to investigational medication after the administration of study drug. Data on file. Scholar Rock, Inc. Cambridge, MA



Unlocking the Potential of the Scholar Rock R&D Engine

TGFβ Superfamily: More than 30 Related Growth Factors that Mediate Diverse Biological Processes

Targeting the latent forms of growth factors



Scholar Rock seeks to unlock the therapeutic potential of modulating growth factor biology

Emerging Insights

Demonstration of initial proof-of-concept for apitegromab in SMA

Validation of therapeutic potential for blocking the activation of latent myostatin with apitegromab

Validation of therapeutic potential in targeting latent forms of growth factors

Opportunities Beyond TOPAZ

- Broader exploration of SMA types, age range, and background SMN therapies
- Exploration of additional myostatin-related indications
- Antibodies against the latent forms of additional well-validated targets in oncology (e.g. SRK-181 program) and fibrosis
- Discovery platform to generate mAbs against other latent growth factors





SRK-181: Potential Transformative Backbone for a New Era of Cancer Immunotherapy



DRAGON



Significant Recent Interest in Potential Role of TGFβ Inhibition in Immuno-Oncology

Cel

Nature (online), Feb. 14, 2018.

$TGF\beta$ attenuates tumour response to PD-L1 blockade by contributing to exclusion of T cells

Sanjeev Mariathasan¹*, Shannon J. Turley¹*, Dorothee Nickles¹*, Alessandra Castiglioni¹, Kobe Yuen¹, Yulei Wang¹, Edward E. Kadel III¹, Hartmut Koeppen¹, Jillian L. Astarita¹, Rafael Cubas¹, Suchiti Jhunjhunwala¹, Romain Banchereau¹, Yagai Yang¹, Yinghui Cuan¹, Cecile Chalouni¹, James Zia¹, Yasin Senbabaoğlu¹, Stephen Santor¹, Daniel Sheinson¹, Jeffrey Hung¹, Jennifer M. Giltnane¹, Andrew A. Pierce¹, Kathryn Mesh¹, Steve Lianoglou¹, Johannes Riegler¹, Richard A. D. Carano¹, Pontus Eriksson², Mattias Höglund², Loan Somarriba³, Daniel L. Halligan³, Michiel S. van der Heijden⁴, Yohann Loriot⁵, Jonathan E. Rosenberg⁶, Lawrence Fong⁷, Ira Mellman¹, Daniel S. Chen¹, Marjorie Green¹, Christina Derleth¹, Gregg D. Fine¹, Priti S. Hegde¹, Richard Bourgon¹ & Thomas Powles⁸

February 2019: *"GSK and Merck KGaA, Darmstadt, Germany announce global alliance to jointly develop and commercialise M7824, a novel immunotherapy with potential in multiple difficult-to-treat cancers"*

• €300 million upfront and up to €3.7 billion total

June 2019: *"Merck to Acquire Tilos Therapeutics: Merck Gains Portfolio of Investigational Antibodies Modulating TGFβ"*

• \$773 million total potential deal value

Article

Genomic and Transcriptomic Features of Response to Anti-PD-1 Therapy in Metastatic Melanoma Authors

Willy Hugo, Jesse M. Zaretsky, Lu Sun, Douglas B. Johnson, Antoni Ribas, Roger S. Lo

Volume 165, Issue 1, 24 March 2016, Pages 35-44

NATURE REVIEWS | CLINICAL ONCOLOGY

$TGF\beta$ biology in cancer progression and immunotherapy

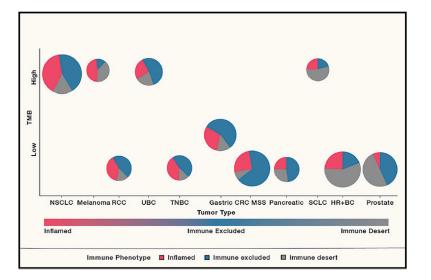
Rik Derynck^{1,2,3}, *Shannon J. Turley*⁴ *and Rosemary J. Akhurst*, *Shannon J. Turley*⁴, 2020: https://doi.org/10.1038/ s41571-020-0403-1

August 2020: *"Bristol Myers Squibb Enters Agreement to Acquire Forbius TGF-beta Program"*

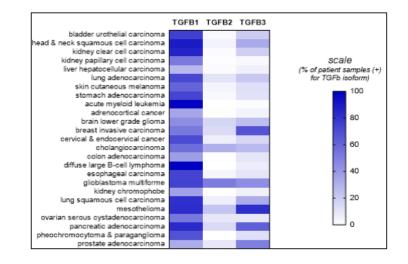


Emerging Evidence Implicates TGFβ1 as Driving Primary Resistance to Checkpoint Inhibitors

Substantial % of solid tumors exhibit immune exclusion



Cancer Genome Atlas RNAseq analysis of >10,000 samples spanning 33 tumor types*



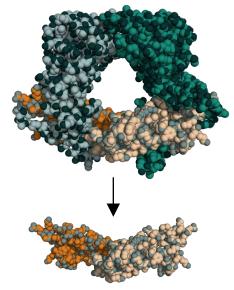
Human Tumor Analyses Reveal TGF^β1 as Most Likely Driver of TGF^β Signaling Pathway in Cancers



*Source: National Cancer Institute - Cancer Genome Atlas Program

SRK-181: Unique TGFβ1-Selective Approach to Overcoming Checkpoint Inhibitor Resistance

Scholar Rock's Target SRK-181: Latent TGFβ1 Inhibitor

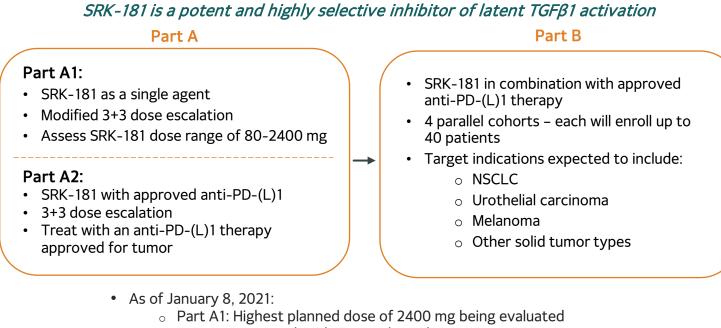


Traditional target: "Mature" growth factor

- ✓ Inhibits TGF β 1 pathway implicated in CPI resistance
- Highly selective targeting avoids inhibiting latent TGFβ2 and TGFβ3 isoforms
- Aimed at increasing therapeutic window potentially avoids toxicities associated with non-selective TGFβ inhibition
- ✓ <u>Therapeutic flexibility</u> pair with any CPI and optimize dosing of each component of combination therapy



DRAGON Phase 1 POC Trial to Evaluate SRK-181's Ability to Overcome Primary Resistance to Checkpoint Inhibitors



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- $_{\circ}~$ Part A2: 800 mg dose being evaluated
- Part B initiation planned for 2Q21
- Initial clinical response and safety data expected in 2H21

DRAGON

*Poster presentation at SITC congress (Nov 2020):https://scholarrock.com/wp-content/uploads/2020/11/SITC_2020_DRAGON402Poster.pdf

2020 Momentum Carrying into 2021: Continued Execution and Advancements

Strengthened leadership team

Positive TOPAZ interim data in SMA; first demonstration of therapeutic potential of scientific platform

Initiated DRAGON Phase 1 trial in cancer immunotherapy

Ended 2020 with ~\$340M in cash and cash equivalents

2021 Priorities

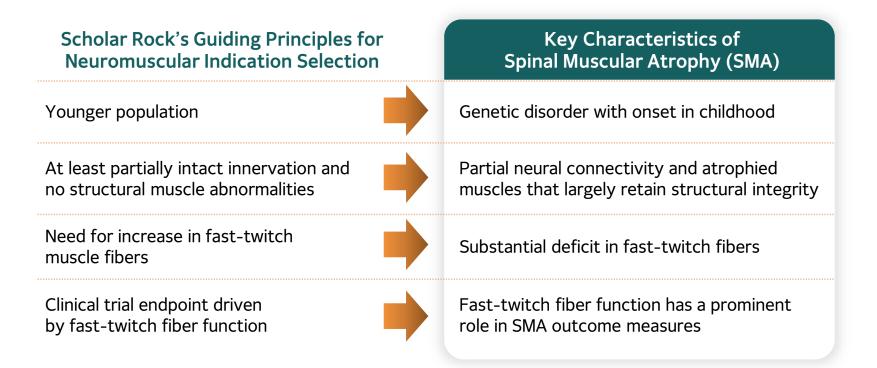
- 12-month TOPAZ data for apitegromab in SMA
- Development and regulatory path for apitegromab in SMA
- □ Additional myostatin-related disorders
- DRAGON trial to evaluate SRK-181's ability to overcome checkpoint resistance
- □ Advance scientific platform



Appendix



Apitegromab: Pairing the latent form with important translational insights





Next Era of SMA Treatment: Muscle-Directed Therapy

Overall Prevalence of 30,000-35,000 in U.S. and Europe

Туре 1:

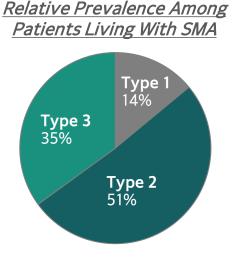
- Infant-onset
- Usually fatal without treatment

Type 2 and non-ambulatory Type 3:

- Later-onset but still early childhood
- Severe deficits in motor function
- SMN upregulators appear to primarily stabilize disease course

Ambulatory Type 3:

- Typically childhood-onset
- Wide range of motor function deficits; limited mobility and substantial morbidity
- SMN upregulators appear to primarily stabilize disease course



TOPAZ trial focuses on Type 2 and Type 3 SMA <u>Unmet need would be served</u> <u>by a therapy that:</u>

- Improves motor function
- Safety profile that enables chronic dosing, including in the pediatric population
- Low drug administration burden
- Applicable across SMA types



Baseline Characteristics



	Ambulatory Patients			Non-Ambulatory Patients		
	Cohort 1			Cohort 2	Cohort 3	
	20 mg/kg pooled	20 mg/kg monotherapy	20 mg/kg +nusinersen	20 mg/kg +nusinersen	2 mg/kg +nusinersen	20 mg/kg +nusinersen
Ν	23	11	12	15	10	10
Mean age (min, max)	12.6 (7, 21)	12.1 (7, 19)	13.1 (7, 21)	11.7 (8, 19)	4.1 (2, 6)	3.8 (2, 6)
Female (%)	65%	73%	58%	53%	30%	50%
SMN2 Gene Copy* (#, %)						
2	1 (4%)	1 (9%)	0 (0%)		1 (10%)	1 (10%)
3	13 (57%)	4 (36%)	9 (75%)	11 (73%)	8 (80%)	8 (80%)
4	5 (22%)	4 (36%)	1 (8%)	2 (13%)	1 (10%)	0 (0%)
Mean # of nusinersen maintenance doses	N/A	N/A	5.6	5.1	5.5	5.4
Discontinuation(s)	1**	0	1**	0	0	0
Mean RHS score (min, max)	49.6 (26, 63)	47.6 (26, 63)	51.3 (43, 62)			
Mean HFMSE score (min, max)				22.7 (13, 39)	26.1 (12, 44)	23.5 (14, 42)

*data not available for all patients

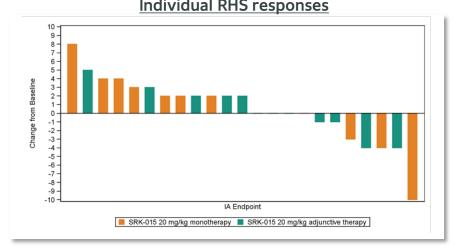
**patient who discontinued study for reasons unrelated to study drug

HFMSE=Hammersmith Functional Motor Scale Expanded; RHS=Revised Hammersmith Scale Data on file. Scholar Rock, Inc. Cambridge, MA

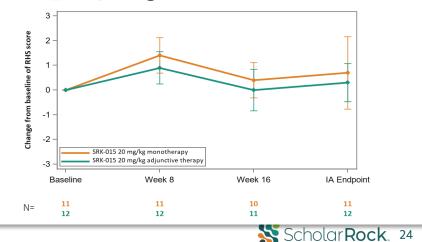


Cohort 1: Improvement in RHS Observed with Both Apitegromab Monotherapy and as Add-on to Background Nusinersen

Ambulatory Type 3 SMA	Apitegromab (20 mg/kg) pooled (n=23)	Apitegromab (20 mg/kg) monotherapy (n=11)	Apitegromab (20 mg/kg) +nusinersen (n=12)
Mean change from baseline in RHS (95% CI)	0.5 (-1.1, 2.2)	0.7 (-2.5, 4.0)	0.3 (-1.4, 2.0)
# (%) patients achieving ≥1-pt increase in RHS	12/23 (52%)	7/11 (64%)	5/12 (42%)
# (%) patients achieving ≥3-pt increase in RHS	6/23 (26%)	4/11 (36%)	2/12 (17%)
# (%) patients achieving ≥5-pt increase in RHS	2/23 (9%)	1/11 (9%)	1/12 (8%)



Mean (±SEM) change from baseline in RHS scores



Apitegromab = non-proprietary name for SRK-015 Data on file. Scholar Rock, Inc. Cambridge, MA

Cohort 2: Meaningful and Consistent Improvements in HFMSE Observed in Type 2 and Non-Ambulatory Type 3 SMA

Type 2 and Non-Ambulatory Type 3 SMA

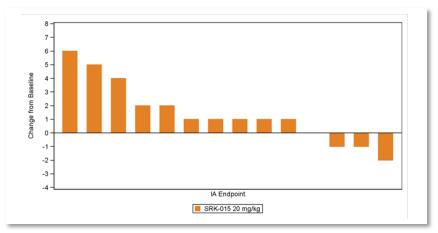
Mean change from baseline in HFMSE (95% CI)

(%) patients achieving \geq 1-pt increase in HFMSE

(%) patients achieving \geq 3-pt increase in HFMSE

(%) patients achieving ≥5-pt increase in HFMSE

Individual HFMSE responses



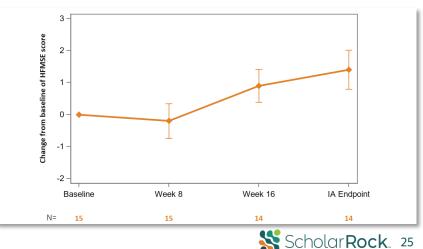
Apitegromab (20 mg/kg) + nusinersen (n=14) 1.4 (0.1, 2.7)

10/14 (71%)

3/14 (21%)

2/14 (14%)

Mean (±SEM) change from baseline in HFMSE scores



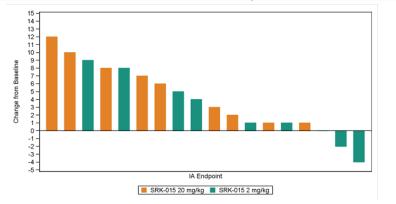
Apitegromab = non-proprietary name for SRK-015 Data on file. Scholar Rock, Inc. Cambridge, MA

Cohort 3: Apitegromab High Dose Showed Substantially Greater Improvements in HFMSE scores Than Low Dose

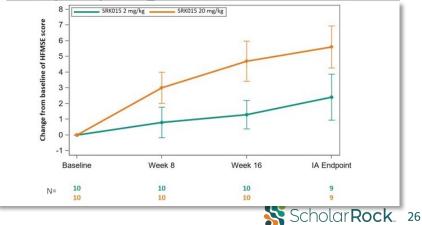
Cohort 3 has a randomized, double-blind, parallel arm design embedded within TOPAZ

Type 2 SMA	Apitegromab low dose (2 mg/kg) +nusinersen (n=9)	Apitegromab high dose (20 mg/kg) +nusinersen (n=9)
Mean change from baseline in HFMSE (95% CI)	2.4 (-0.9, 5.8)	5.6 (2.5, 8.7)
# (%) patients achieving ≥1-pt increase in HFMSE	6/9 (67%)	9/9 (100%)
# (%) patients achieving ≥3-pt increase in HFMSE	4/9 (44%)	6/9 (67%)
# (%) patients achieving ≥5-pt increase in HFMSE	3/9 (33%)	5/9 (56%)

Individual HFMSE responses

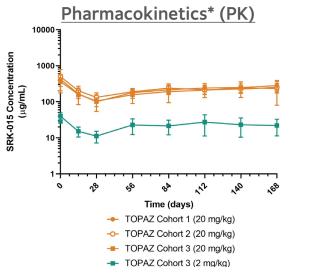


Mean (±SEM) change from baseline in HFMSE scores

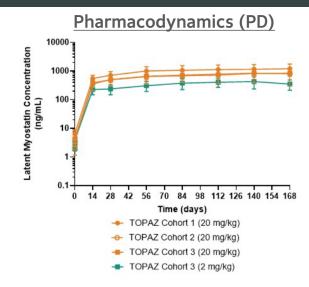


Apitegromab = non-proprietary name for SRK-015 Data on file. Scholar Rock, Inc. Cambridge, MA

Pharmacokinetic and Pharmacodynamic Data are Supportive of Clinically Observed Dose Response



- Well-behaved PK profile consistent with that commonly observed with monoclonal antibodies
- Drug exposure was dose proportional



- Target engagement by apitegromab was confirmed
- Low dose (2 mg/kg) yielded lower level of target engagement and did not achieve full target saturation

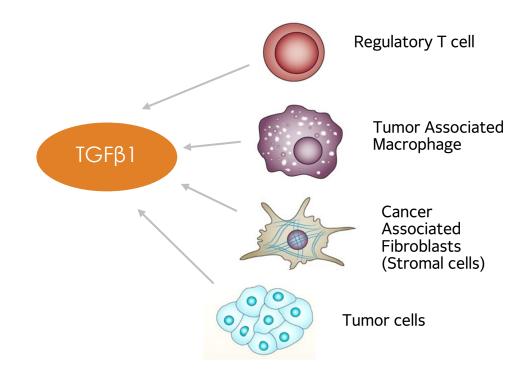
High dose (20 mg/kg) yielded higher levels of drug exposure and target engagement than low dose (2 mg/kg)

*Starting at day 28, measures are pre-dose trough levels *Apitegromab = non-proprietary name for SRK-015 Data on file. Scholar Rock, Inc. Cambridge, MA*



Inhibition of TGFβ1: Multipronged Approach for Immuno-Oncology

TGFβ1 is a key driver of immune system evasion by cancer cells

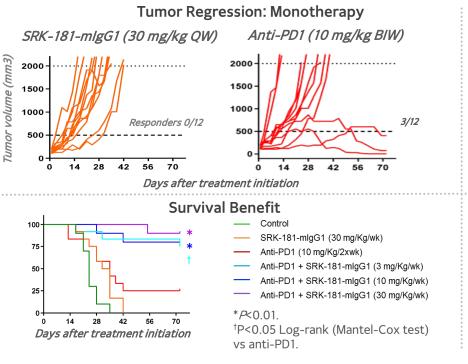


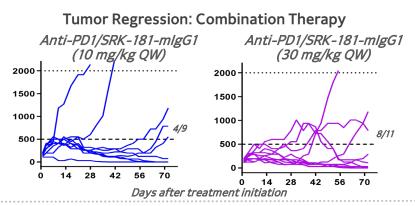
- Pathway analysis in patient tumors points to TGFβ1 as major determinant of primary resistance to anti-PD-(L)1 therapy
- TGFβ1 creates 'immune excluded' tumor microenvironment



TGFβ1 Blockade with SRK-181-mIgG1 Rendered Preclinical Tumor Models Susceptible to Anti-PD1 Therapy

Melanoma (Cloudman S91) model: Combination treatment led to tumor regression and survival benefit

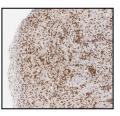




Overcoming immune exclusion



Anti-PD1/ SRK-181-mlgG1 led to influx of CD8+ cells in preclinical bladder tumor model

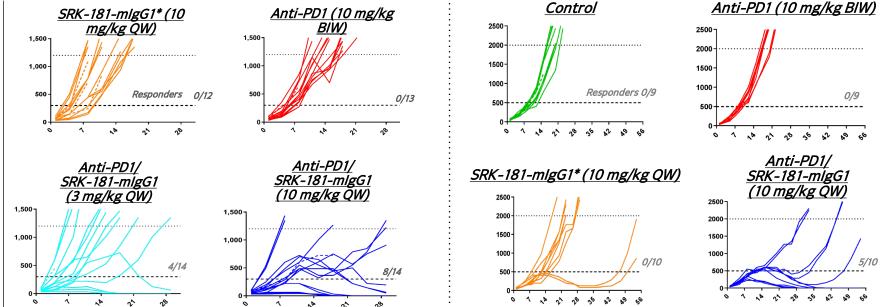




Preclinical data published in *Science Translational Medicine*. Martin CJ, et al. *Sci Transl Med.* 2020 Mar 25;12(536):eaay8456. https://scholarrock.com/platform/publications.

TGFβ1 Blockade with SRK-181-mIgG1 Rendered Preclinical Tumor Models Susceptible to Anti-PD1 Therapy

Bladder Cancer



Days after treatment initiation

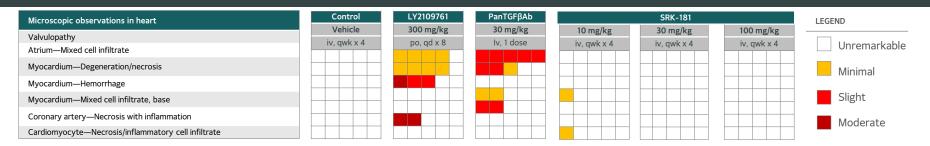
Preclinical data published in *Science Translational Medicine*. Martin CJ, et al. *Sci Transl Med*. 2020 Mar 25;12(536):eaay8456. https://scholarrock.com/platform/publications/.

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*SRK-181-mlgG1 is the murine version of SRK-181; responder defined as tumor size <25% endpoint volume at study end.

Breast Cancer (TGFβ1/3 co-expressing)

TGFβ1 Isoform Specificity of SRK-181 Improved Preclinical Toxicity Profile



Repeat dose pilot toxicology study in adult female Sprague Dawley rats:

- Cardiac findings were exhibited in animals dosed with a pan-TGF β antibody or LY2109761 (inhibitor of ALK5, common TGF β receptor kinase) as expected based on published data[†]
- No cardiotoxicities (valvulopathy) were noted with SRK-181
 - NOAEL for SRK-181 was the highest dose evaluated of 100 mg/kg QW

4-week GLP toxicology studies:

- Rats: NOAEL for SRK-181 was up to highest evaluated dose of 200 mg/kg QW
- Non-human primates: NOAEL for SRK-181 was up to highest evaluated dose of 300 mg/kg QW

Selectivity of SRK-181 offers potential to overcome toxicity and dose-limiting challenges of non-selective TGFβ pathway approaches

Preclinical data published in *Science Translational Medicine*. Martin CJ, et al. *Sci Transl Med* 2020 Mar 25;12(536): eaay8456. *Source: Anderton MJ, et al. Induction of heart valve lesions by small-molecule ALK5 inhibitors. *Toxicol Pathol*. 2011;39: 916-924.; and Stauber AJ, et al. Nonclinical safety evaluation of a transforming growth factor β Receptor I kinase inhibitor in Fischer 344 rats and beagle dogs. *J Clin Pract.* 2014: 4:3.



DRAGON Part A: Commenced Evaluation of SRK-181 with Anti-PD-(L)1 Therapy

DRAGON Part A2

DRAGON Part A1

- SRK-181 as a single agent
- Modified 3+3 dose escalation
- Assess SRK-181 dose range of 80-2400 mg (avg weight 80kg)

Safety and PK Data as Single-Agent

• Enables progression to evaluation of combination treatment

- SRK-181 with approved anti-PD-(L)1
- 3+3 dose escalation
- Focus on patients with primary resistance to single-agent anti-PD-1 or anti-PD-L1

Potential for Early Efficacy Signals

 Anti-tumor response from combination treatment in individual patients would be unexpected given prior resistance to anti-PD-(L)1 therapy



NCT04291079 on <u>www.clinicaltrials.gov</u>. Poster presentation at SITC congress (Nov 2020):https://scholarrock.com/wp-content/uploads/2020/11/SITC_2020_DRAGON402Poster.pdf

DRAGON Part B: Multiple Opportunities for Efficacy Signals

DRAGON Part B

- Study population focused on patients already shown to have primary resistance to CPI
- 4 parallel cohorts; each to enroll up to 40 patients
 - **NSCLC:** SRK-181 + pembrolizumab
 - Urothelial carcinoma: SRK-181 + pembrolizumab
 - Melanoma: SRK-181 + pembrolizumab*
 - Additional tumor types: SRK-181 + anti-PD-(L)1 therapy for which patient experienced primary resistance

Potential for Rapid Path to Proof-of-Concept

- Anti-tumor response and safety with combination treatment
 - Response in individual patients would be unexpected given prior resistance to anti-PD-(L)1 therapy
 - Evaluation of patients with stable or progressive disease
- Ability to evaluate response across multiple tumor types
- Patient population with high unmet medical need
 - Strong proof-of-concept signal could support efficient registrational path

DRAGON Part B initiation planned 2Q21; initial clinical response and safety data expected in 2H21



