



Deep Insights, Impactful Medicines

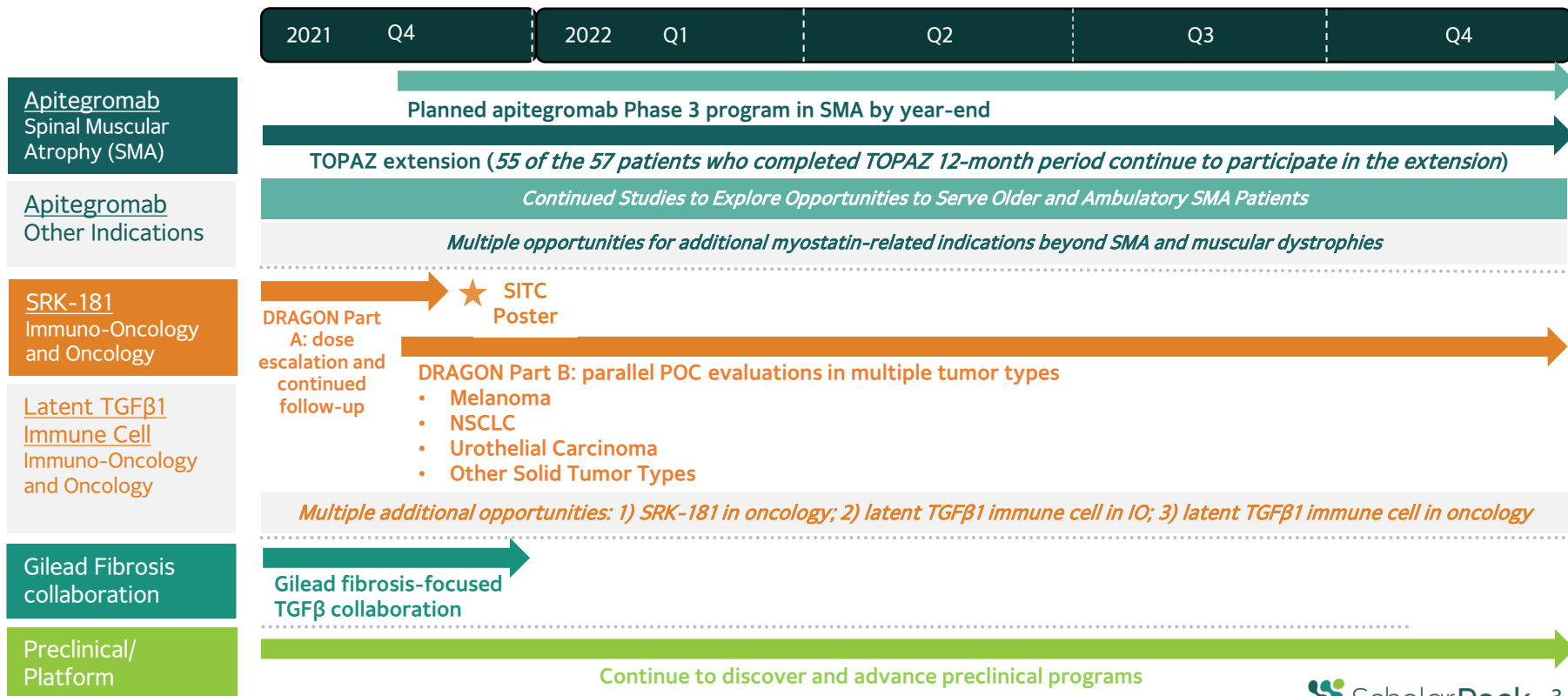
November 2021



Disclaimers

Various statements in this presentation concerning the future expectations, plans and prospects of Scholar Rock, Inc. ("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 clinical trials for 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," "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 preclinical and clinical data, including the results from the Phase 2 trial of apitegromab or Part A of the Phase 1 trial of SRK-181, are not predictive of, are inconsistent with, or more favorable than, data generated from future clinical trials of the same product candidate, including the planned Phase 3 trial of apitegromab in SMA and Part B of the Phase 1 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, including its collaboration with Gilead, Scholar Rock's dependence on third parties for development and manufacture of product candidates including 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 and maintain strategic business alliances and new business initiatives, and the impacts of public health pandemics such as COVID-19 on business operations and expectations, as well as those risks more fully discussed in the section entitled "Risk Factors" in Scholar Rock's Quarterly Report on Form 10-Q for the quarter ended September 30, 2021, 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.

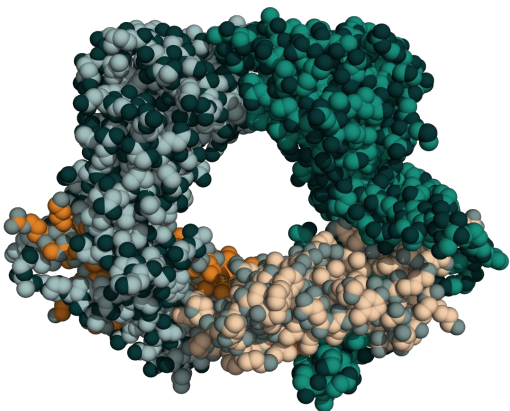
2021 Momentum to Carry into 2022 Across Portfolio



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 to deliver differentiated therapeutic profiles (i.e. exquisite selectivity)

TOPAZ demonstrated the therapeutic potential of inhibiting the latent forms of growth factors



Apitegromab Positioned to be Next Potential Transformative Therapy for Patients with SMA

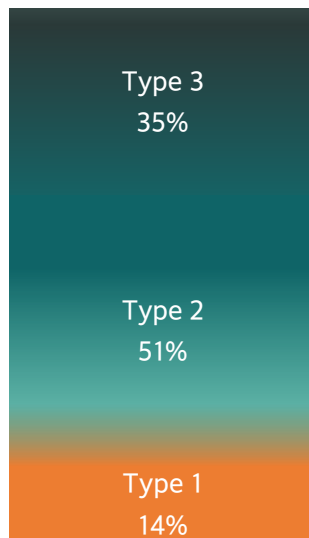
Spinal Muscular Atrophy Overview

Global disease with 30,000-35,000 affected in U.S. and Europe alone

- Significant, progressive motor function impairment; many lose ambulation

- Severe, progressive disabilities and unable to walk independently

- Infantile onset; unable to sit up independently



TOPAZ* 12-month results showed transformative potential in non-ambulatory Type 2 and 3 patients

Represents ~2/3 of overall patient population

Motor neuron impairment and loss due to SMN genetic deficiency, leading to muscle atrophy and weakness

**TOPAZ Phase 2 trial evaluated patients with Type 2 and 3 SMA (did not include Type 1)
Lally et al, Orphanet Journal of Rare Diseases, 2017*

Potential to Pioneer a New Treatment Era: Opportunity for Muscle-Directed Therapy to Complement SMN Upregulators



Phase 3 Trial Design	<ul style="list-style-type: none"> Non-ambulatory Type 2/3 2-12 years of age Primary endpoint: Mean change from baseline in HFMSE at 15 months 	<ul style="list-style-type: none"> Non-ambulatory Type 2/3 2-25 years of age Primary endpoint: Mean change from baseline in MFM-32 at 12 months 	<ul style="list-style-type: none"> Infantile-onset Type 1 <6 months of age Primary endpoints: Ability to sit independently and event-free survival
Indication	<ul style="list-style-type: none"> Type 1, 2, and 3 SMA in pediatric and adult patients 	<ul style="list-style-type: none"> Type 1, 2, 3 SMA in patients 2 months of age and older 	<ul style="list-style-type: none"> SMA in patients less than 2 years of age
Market Penetration	<ul style="list-style-type: none"> >11,000* patients treated WW \$2+ billion in revenues (LTM) 	<ul style="list-style-type: none"> ~4,000** patients treated WW ~CHF243 million in revenues (1H21) 	<ul style="list-style-type: none"> ~1,200*** patients treated WW ~\$1.2 billion in revenues (LTM)

Patients continue to experience major functional impairments despite utilization of SMN upregulators

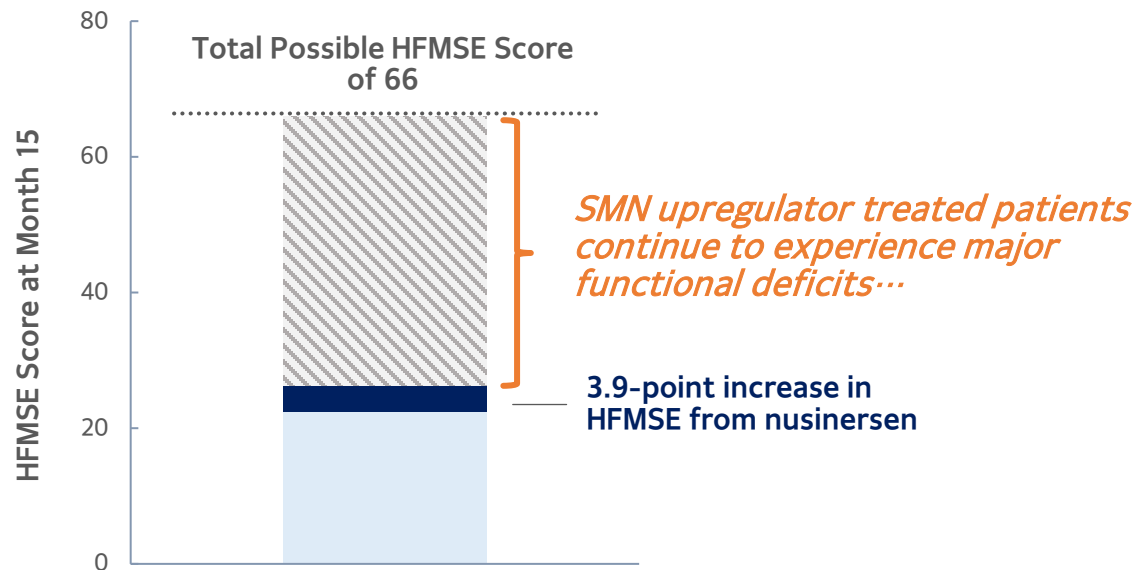
*As of Biogen 2Q21 financial update on 7/22/21; includes patients treated worldwide in post-marketing setting, expanded access program, and clinical trials.

**As of Roche 1H21 financial update on 7/22/21; includes patients treated worldwide between clinical trials, commercial, and compassionate use program.

***As of Novartis 2Q21 financial update on 7/21/21; commercially, via managed access programs and in clinical trials

HFMSE = Hammersmith Functional Motor Scale Expanded; MFM-32 = Motor Function Measure – 32 items

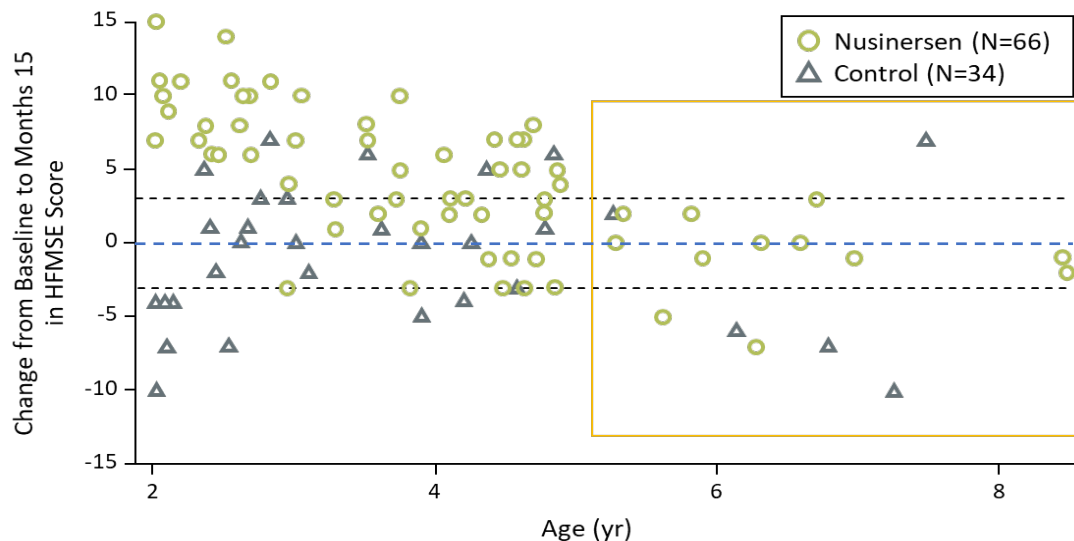
Patients with Type 2 and 3 SMA Continue to Experience Major Functional Deficits Despite Improvement from Nusinersen



Mean improvement in HFMSE experienced by patients with non-ambulatory Type 2/3 SMA in nusinersen Phase 3 CHERISH trial

Nusinersen Does Not Increase HFMSE on Average in Children Who Initiate Treatment After the Age of 5 Years

CHERISH Trial in Non-Ambulatory Type 2/3 SMA[†]

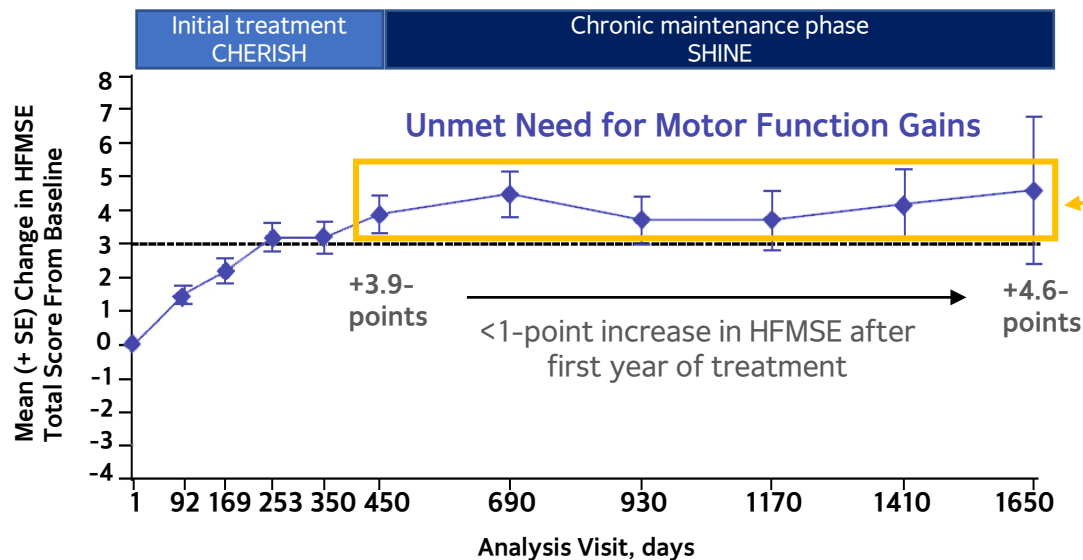


Majority of patients treated with nusinersen after the age of 5 did not observe an improvement

[†]Mercuri E, et.al. Nusinersen versus sham control in later-onset spinal muscular atrophy. *N Engl J Med.* 2018;378:625-635.

This third-party information is provided for background only and is not intended to convey or imply a comparison to the TOPAZ clinical trial results.

Plateauing of HFMSE Increases Observed After First 15 Months of Nusinersen Treatment in Type 2 and 3 SMA

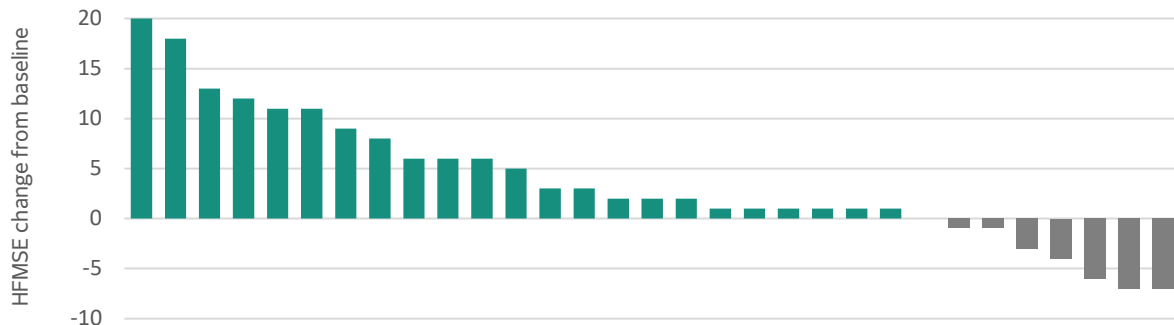


Nusinersen observed plateauing of improvement during chronic maintenance phase...

Most nusinersen-treated patients in CHERISH were <5 years of age at therapy initiation

TOPAZ Top-Line Data Showed Apitegromab's Transformative Potential in Patients with Type 2/3 SMA

- ✓ Majority of non-ambulatory patients observed a clinical improvement in HFMSE*



- ✓ Apitegromab treatment (as add-on to background nusinersen) led to improvements in HFMSE in both non-ambulatory cohorts

At 12 months	Mean HFMSE increase	≥1-point increase	≥3-point increase
Initiated background nusinersen age <5**	+7.1 points	88% (7/8) of patients	63% (5/8) of patients
Initiated background nusinersen age ≥5	+0.6 points	64% (9/14) of patients	29% (4/14) of patients

* Pooled cohorts of non-ambulatory patients treated with apitegromab 20 mg/kg and 2 mg/kg

**Non-ambulatory patients who initiated background nusinersen at a young age of <5 years and treated with apitegromab 20 mg/kg dose

Non-Ambulatory Type 2 Cohort: Initiated nusinersen age <5



Apitegromab (20 mg/kg) + nusinersen	n=8
Mean change from baseline in HFMSE (95% CI)	+7.1 (1.8, 12.5)
# (%) patients achieving:	
≥1-pt increase in HFMSE	7/8 (88%)
≥3-pt increase in HFMSE	5/8 (63%)
≥5-pt increase in HFMSE	5/8 (63%)
Baseline characteristics: mean (min, max)	n=10
Age	3.8 (2, 6)
HFMSE score	23.5 (14, 42)
# of nusinersen maintenance doses	5.4 (3, 8)

Sizable increases in HFMSE observed in patients already treated with chronic maintenance nusinersen

- 88% (7/8) improved
- 63% (5/8) with ≥5-point increase
- 38% (3/8) with >10-point increase
- Continuous and durable improvements observed through 12-months of treatment

Non-Ambulatory Type 2/3 Cohort: Initiated nusinersen age ≥ 5

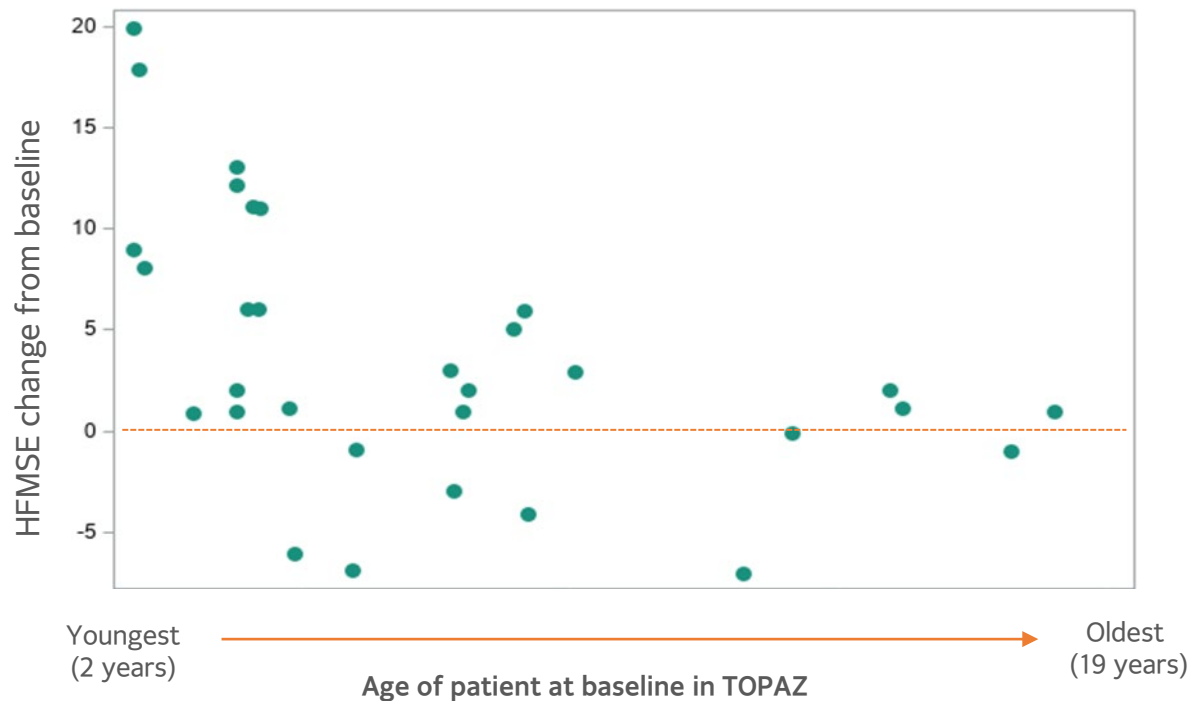


Apitegromab (20 mg/kg) + nusinersen	Per Protocol Population* (n=13)	Intent-to-Treat Population (n=14)
Mean change from baseline in HFMSE (95% CI)	+1.2 (-0.5, 2.9)	+0.6 (-1.4, 2.7)
# (%) patients achieving:		
≥ 1 -pt increase in HFMSE	9/13 (69%)	9/14 (64%)
≥ 3 -pt increase in HFMSE	4/13 (31%)	4/14 (29%)
≥ 5 -pt increase in HFMSE	2/13 (15%)	2/14 (14%)
Baseline characteristics: mean (min, max)	n=15	
Age	11.7 (8, 19)	
HFMSE score	22.7 (13, 39)	
# of nusinersen maintenance doses	5.1 (2, 9)	

Majority of patients improved in HFMSE (despite initiating background nusinersen age ≥ 5)

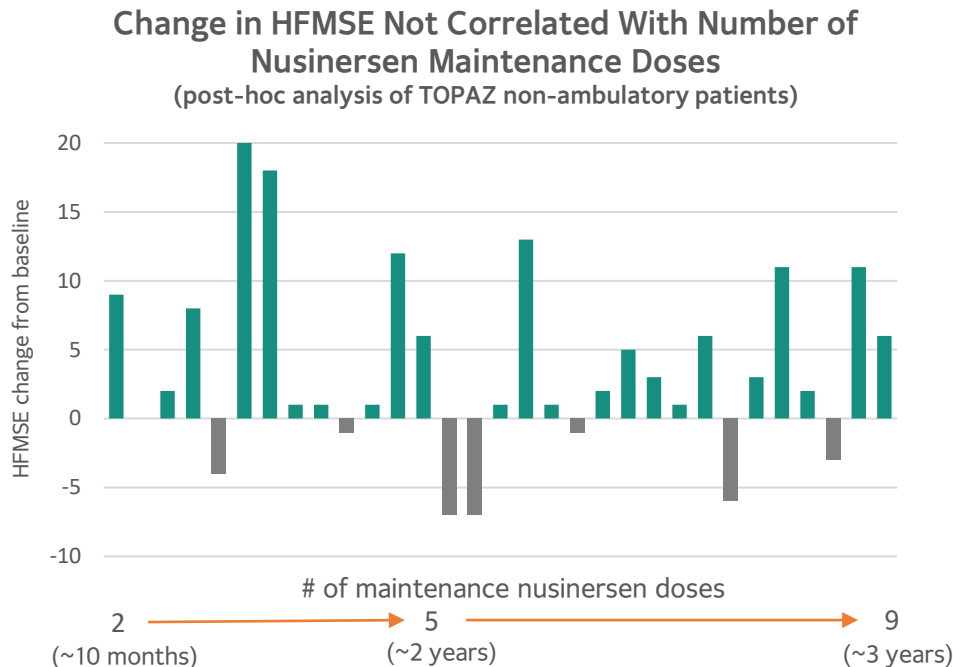
- $\sim 2/3$ with ≥ 1 -point increase
- $\sim 30\%$ with ≥ 3 -point increase
- Durability of effect observed through 12-months of treatment

HFMSE Improvements Observed Across Age Range of Non-Ambulatory Patients with Relatively Larger Gains from Earlier Treatment



**Pooled cohorts of non-ambulatory patients treated with apitegromab 20 mg/kg and 2 mg/kg; excludes 4 patients who each missed 3 doses of apitegromab due to COVID-19-related site access restrictions and were not included in the primary (intent-to-treat) analysis.
Data on file. Scholar Rock, Inc. Cambridge, MA*

Increases in HFMSE Not Correlated with Duration of Prior Nusinersen Treatment



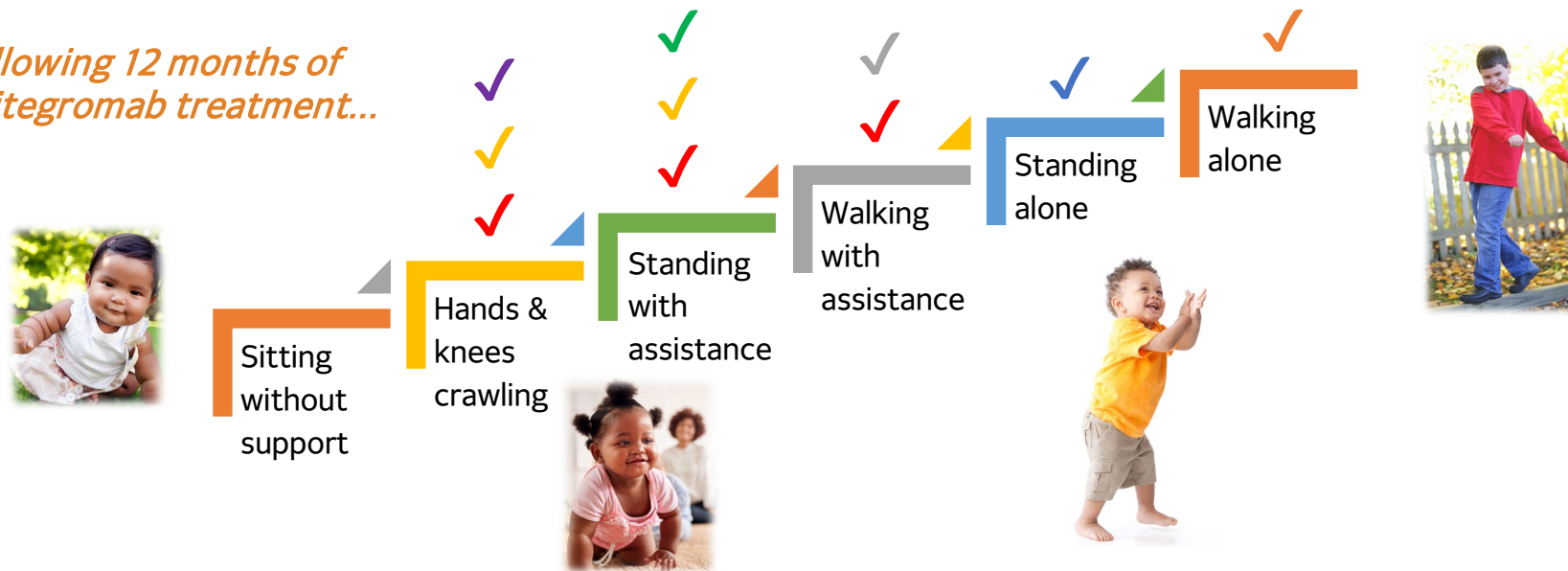
Further data suggesting increases in HFMSE may be attributable to apitegromab

- No correlation between duration of prior nusinersen treatment and change in HFMSE
- Patients in TOPAZ were already in chronic maintenance phase of nusinersen (mean of ~2 years at enrollment)

WHO Motor Development Milestone Achievements Further Support Apitegromab's Potential to Improve Motor Function

Non-ambulatory Type 2/3 Patients	Pooled	Initiated nusinersen age <5	Initiated nusinersen age ≥5
# of patients gaining ≥1 WHO motor milestone(s)	7/35	4/20	3/15

Following 12 months of apitegromab treatment...



WHO motor milestone analysis included all patients who completed the 12-month treatment period, including 4 patients who missed 3 doses of apitegromab due to COVID-19-related site access restrictions. Median baseline score for both non-ambulatory cohorts was 1.0.

1 patient (initiated nusinersen age ≥5) gained 2 new motor milestones and 1 patient (initiated nusinersen age <5, 20 mg/kg) gained 3 new motor milestones

Pictures are not of patients with SMA and are not meant to be representative of patients with SMA. Data on file. Scholar Rock, Inc. Cambridge, MA.

Safety Results from TOPAZ 12-Month Top-Line Analysis

Support Evaluation of Apitegromab in Phase 3 Trial

Treatment-emergent adverse events (TEAEs)	Apitegromab 2 mg/kg (n=10)	Apitegromab 20 mg/kg (n=48)	Total (n=58)
Any TEAE	9 (90.0%)	44 (91.7%)	53 (91.4%)
Any Serious TEAE	1 (10.0%)	4 (8.3%)	5 (8.6%)
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%)	3 (6.2%)	3 (5.2%)

- **Five most frequently reported TEAEs***: Headache (24%), pyrexia (22%), upper respiratory tract infection (22%), cough (22%), and nasopharyngitis (21%).
- SAEs, Grade 3 AEs and AE leading to early study discontinuation were all assessed by investigators as unrelated to study drug
- **Anti-drug antibodies (ADA)** were present at low titers following apitegromab treatment in 3 out of 58 enrolled patients. No apparent impact on drug exposure was observed and was not associated with any hypersensitivity reactions.

Incidence and severity of AEs were consistent with the 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.

**TEAE rates are across all patients in TOPAZ trial*

Data on file. Scholar Rock, Inc. Cambridge, MA

Preliminary Thoughts on Apitegromab Phase 3 Trial Design

Phase 3 trial design subject to regulator interactions and feedback

Design

- Randomized, double-blind, placebo-controlled
- 12-month treatment period
- Apitegromab IV Q4W as add-on to nusinersen or risdiplam
- TOPAZ data support investigation of up to 20 mg/kg

Subjects

- Non-ambulatory Type 2 and Type 3 SMA
- Pediatric population in chronic maintenance phase of SMN therapy

Key Objectives

- HFMSE
- Safety

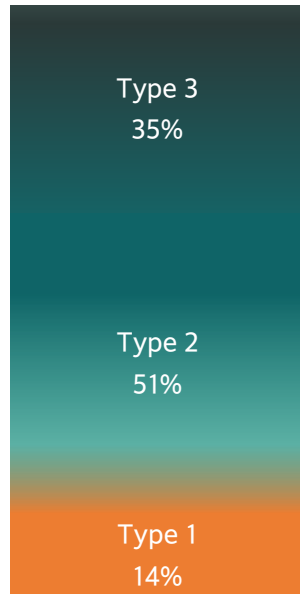
Timeline

- Aim to initiate by end of 2021

Apitegromab recently received Fast Track (FDA) and PRIME (EMA) designations, recognizing unmet medical needs in SMA

Additional Opportunities May Be Pursued With Separate Development Strategies

Global disease with
30,000-35,000 affected in
U.S. and Europe alone



A

Apitegromab in non-ambulatory Type 2 and 3 with background SMN upregulators

- Represents 2/3 of overall patients
- Patients already treated with or eligible for SMN upregulator therapy
- Improvements in motor function on top of SMN upregulators observed in TOPAZ

B

Type 1 patients, including those treated with gene therapy

- Highest incidence population and growing prevalence due to SMN upregulator treatment
- TOPAZ showed benefits of early treatment suggesting potential in Type 1 patients

C

Ambulatory patients

- Smaller population but high unmet need as benefits of SMN regulators not well-established
- TOPAZ suggests potential clinical benefit in a subset of patients

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



Significant Interest in Potential Role of TGF β Inhibition in Immuno-Oncology

Nature (online), Feb. 14, 2018.

TGF β attenuates tumour response to PD-L1 blockade by contributing to exclusion of T cells

Sanjeev Mariathasan^{1*}, Shannon J. Turley^{1*}, Dorothee Nickles^{1*}, Alessandra Castiglioni¹, Kobe Yuen¹, Yulei Wang¹, Edward E. Kadel III¹, Hartmut Koeppen¹, Jillian L. Astarita¹, Rafael Cubas¹, Suchit Jhunjhunwala¹, Romain Banchereau¹, Yagai Yang¹, Yinghui Guan¹, Cecile Chalouni¹, James Ziai¹, Yasin Şenbabaoğlu¹, Stephen Santoro¹, Daniel Sheinson¹, Jeffrey Hung¹, Jennifer M. Giltman¹, Andrew A. Pierce¹, Kathryn Mesh¹, Steve Lianoglou¹, Johannes Riegler¹, Richard A. D. Carano¹, Pontus Eriksson², Mattias Höglund², Loan Somarriva³, 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 TGF β ”*

- \$773 million total potential deal value

Cell

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

Article

NATURE REVIEWS | CLINICAL ONCOLOGY

TGF β biology in cancer progression and immunotherapy

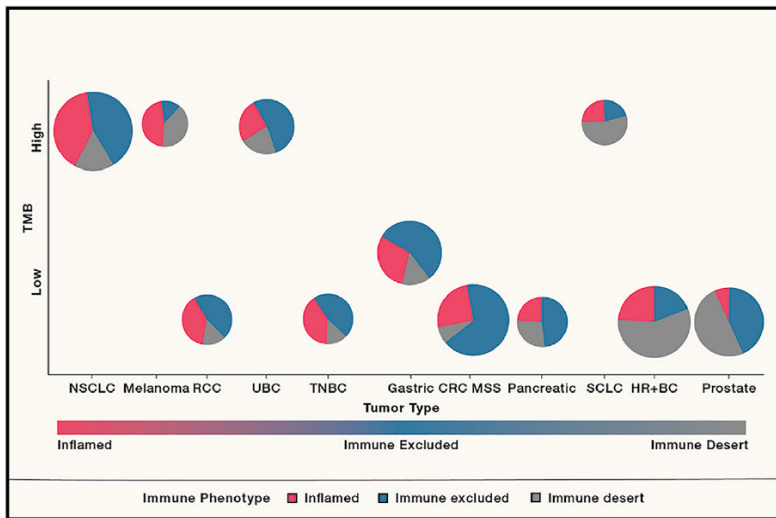
Rik Derynck^{1,2,3}✉, Shannon J. Turley⁴✉ and Rosemary J. Akhurst^{1,2,3}✉

July 24, 2020: <https://doi.org/10.1038/s41571-020-0403-1>

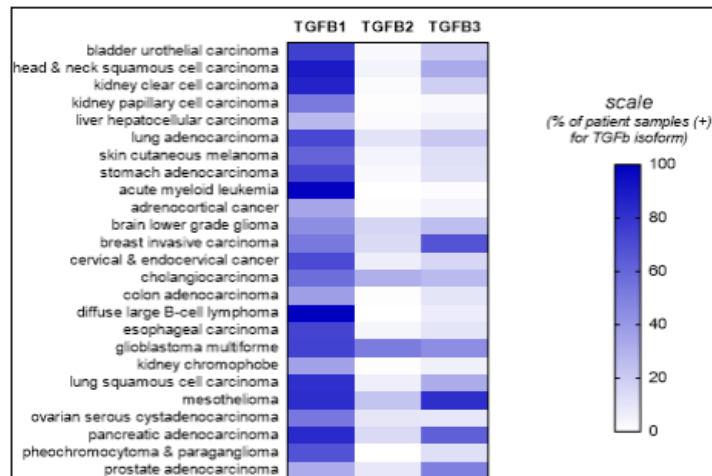
August 2020: *“Bristol Myers Squibb Enters Agreement to Acquire Forbius TGF-beta Program”*

Emerging Evidence Implicates TGF β 1 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*



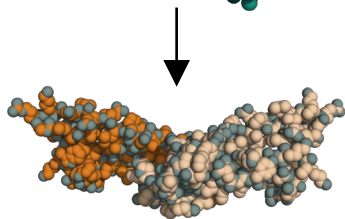
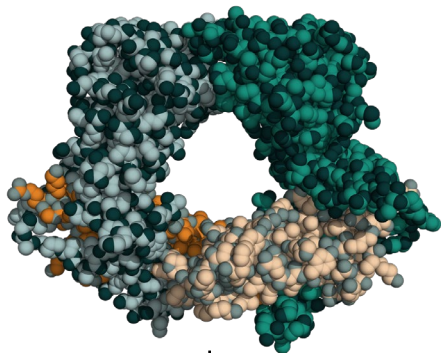
Human Tumor Analyses Reveal TGF β 1 as Most Likely Driver of TGF β Signaling Pathway in Cancers

*Priti H, et al. Top 10 challenges in cancer immunotherapy. *Immunity*. 2020 Jan 14;52(1):17-35. <https://doi.org/10.1016/j.immuni.2019.12.011>.

*Source: National Cancer Institute - Cancer Genome Atlas Program.

SRK-181: Unique TGF β 1-Selective Approach to Overcoming Checkpoint Inhibitor Resistance

Scholar Rock's Target SRK-181: Latent TGF β 1 Inhibitor



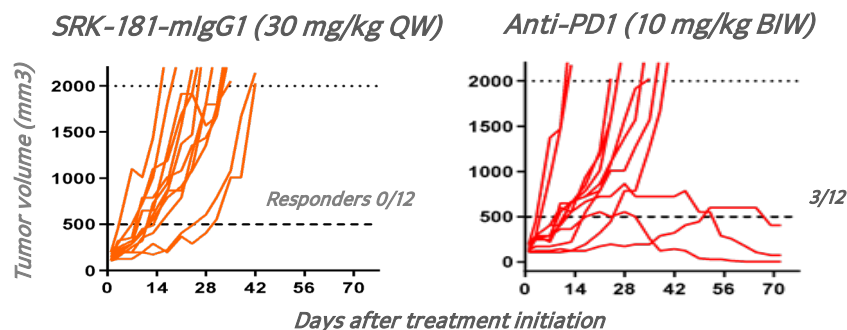
Traditional target:
“Mature” growth factor

- ✓ Inhibits TGF β 1 pathway - implicated in CPI resistance
- ✓ Highly selective targeting - avoids inhibiting latent TGF β 2 and TGF β 3 isoforms
- ✓ Aimed at increasing therapeutic window - potentially avoids toxicities associated with non-selective TGF β inhibition
- ✓ Therapeutic flexibility - pair with any CPI and optimize dosing of each component of combination therapy

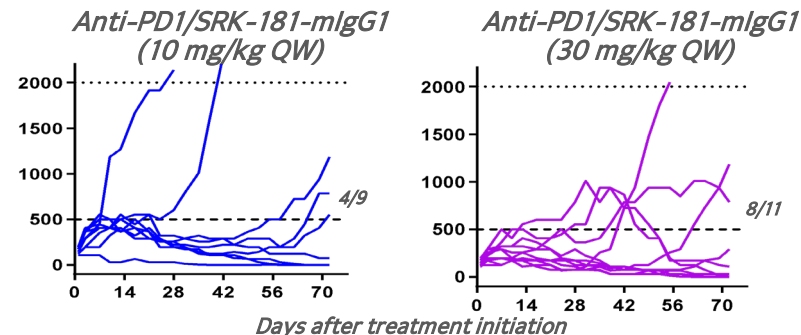
TGF β 1 Blockade with SRK-181-mIgG1 Rendered Preclinical Tumor Models Susceptible to Anti-PD1 Therapy

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

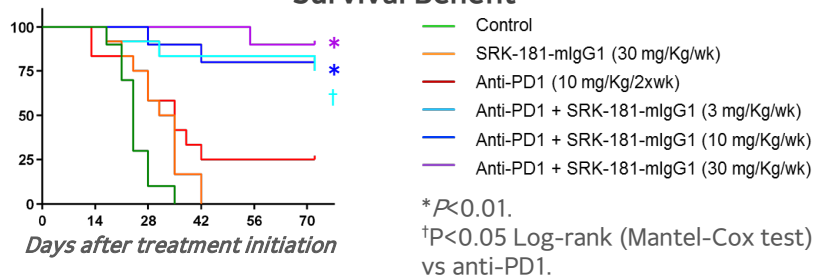
Tumor Regression: Monotherapy



Tumor Regression: Combination Therapy

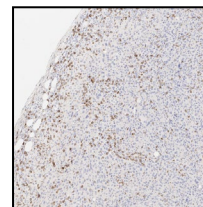


Survival Benefit

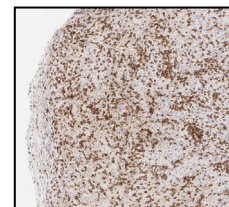


Overcoming immune exclusion

Anti-PD1



Anti-PD1/ SRK-181-mIgG1 led to influx of CD8+ cells in preclinical bladder tumor model



TGFβ1 Isoform Specificity of SRK-181 Improved Preclinical Toxicity Profile

Microscopic observations in heart	Control	LY2109761	PanTGFβAb	SRK-181			LEGEND
	Vehicle	300 mg/kg	30 mg/kg	10 mg/kg	30 mg/kg	100 mg/kg	
	iv, qwk x 4	po, qd x 8	iv, 1 dose	iv, qwk x 4	iv, qwk x 4	iv, qwk x 4	Unremarkable
Valvulopathy							
Atrium—Mixed cell infiltrate							
Myocardium—Degeneration/necrosis							
Myocardium—Hemorrhage							
Myocardium—Mixed cell infiltrate, base							
Coronary artery—Necrosis with inflammation							
Cardiomyocyte—Necrosis/inflammatory cell infiltrate							

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

- Cardiac findings were exhibited in animals dosed with a pan-TGFβ antibody or LY2109761 (inhibitor of ALK5, common TGFβ 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.

SRK-181 Therapeutic Hypothesis: Potential Advantages of Latent TGFβ1 Inhibitor

	SRK-181*	Bifunctional TGFβ/CPI	ALK5 Inhibitor	Nonselective TGFβ antibody
Selectivity for TGFβ1: potential for wider therapeutic window and improved safety	✓	X	X	X
Ability to combine with any anti-PD-(L)1	✓	X	✓	✓
Ability to optimize dosing of each component of combination therapy	✓	X	✓	✓
Activity spatially distinct from anti-PD-(L)1 in tissue	✓	X	✓	✓

SRK-181 is an investigational product candidate currently being evaluated in DRAGON phase 1 clinical trial. The efficacy and safety of SRK-181 have not been established.

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



Part A

A1: SRK-181
all-comers

SRK-181 80 mg (n=1)
↓
SRK-181 240 mg (n=1)
↓
SRK-181 800 mg (n=3)
↓
SRK-181 1600 mg (n=3)
↓
SRK-181 2400 mg (n=3)
↓
SRK-181 3000 mg (n=3)

A2: SRK-181+anti-PD-(L)1; non-
responders to prior anti-PD-(L)1

SRK-181 240 mg (n=3)
↓
SRK-181 800 mg (n=3)
↓
SRK-181 1600 mg (n=3)
↓
SRK-181 2400 mg (n=3)
↓
Different dose regimen if
needed (n=3)

Part B

SRK-181 + anti-PD-(L)1; non-responders to prior anti-PD-(L)1
n=up to 40/cohort

Cohort A: non-small cell
lung cancer (NSCLC)

SRK-181 +
pembrolizumab

Cohort B: urothelial
carcinoma (UC)

SRK-181 +
pembrolizumab

Cohort C: cutaneous
melanoma

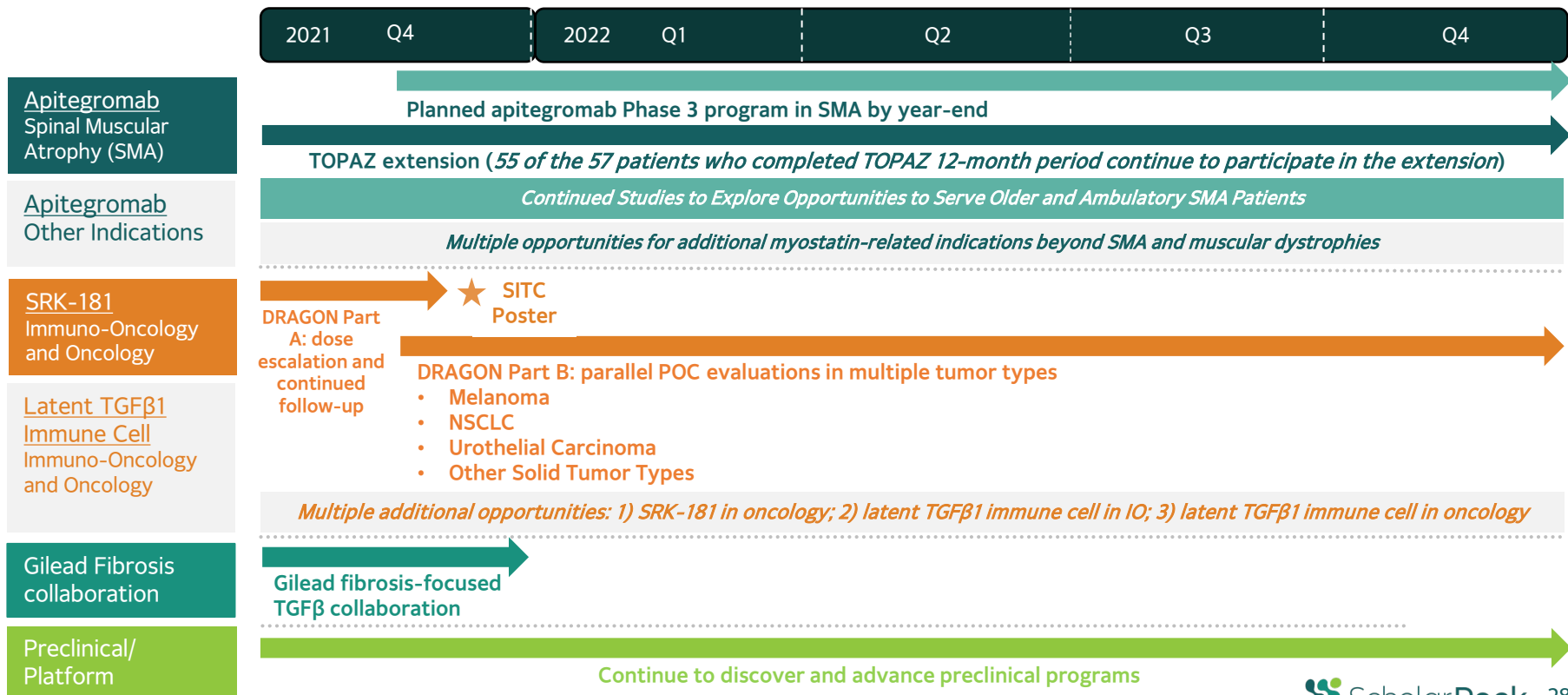
SRK-181 +
pembrolizumab

Cohort D: Other
solid tumor types

SRK-181 + any
anti-PD-(L)1

Part B Initiated in October 2021

2021 Momentum to Carry into 2022 Across Portfolio



Appendix

Apitegromab: Pairing the latent form with important translational insights

Scholar Rock's Guiding Principles for Neuromuscular Indication Selection

Younger population



Genetic disorder with onset in childhood

At least partially intact innervation and no structural muscle abnormalities



Partial neural connectivity and atrophied muscles that largely retain structural integrity

Need for increase in fast-twitch muscle fibers



Substantial deficit in fast-twitch fibers

Clinical trial endpoint driven by fast-twitch fiber function



Fast-twitch fiber function has a prominent role in SMA outcome measures

Key Characteristics of Spinal Muscular Atrophy (SMA)

Apitegromab: Muscle-Directed Therapy Aimed at Complementing SMN Upregulators

SMN upregulators prevent further degeneration of motor neurons

...but do not directly address muscle atrophy



Apitegromab is a muscle-directed approach aimed at improving motor function

Motor neuron degeneration

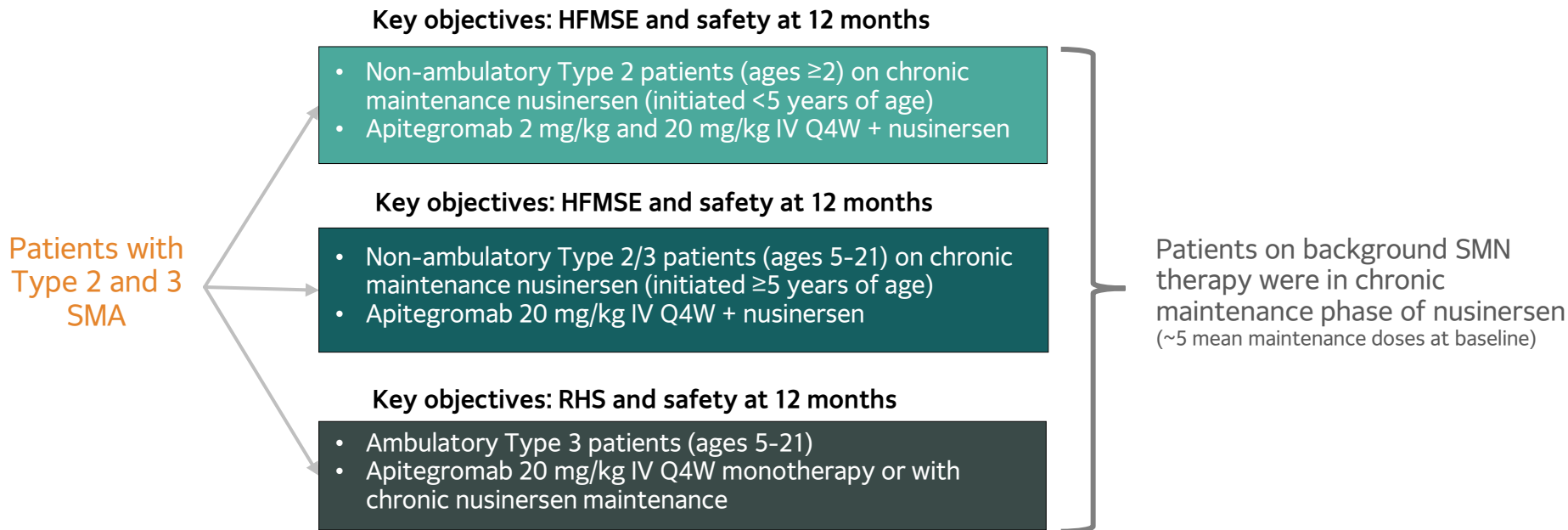


Muscle fiber atrophy

Apitegromab

- Myostatin is a negative regulator of skeletal muscle growth
- Apitegromab is a fully human, mAb that specifically binds to proforms of myostatin and inhibits myostatin activation

Apitegromab Phase 2 Trial Design



55 of the 57* patients who completed TOPAZ 12-month period continue to participate in the extension

**Excludes one patient from Cohort 1 that discontinued from the trial*

Baseline Characteristics

Nusinersen-treated patients well into chronic maintenance phase



	Non-Ambulatory, Ages ≥2 and initiated nusinersen <5 years			Non-Ambulatory, Ages 5-21	Ambulatory, Ages 5-21		
	20 mg/kg +nusinersen	2 mg/kg +nusinersen	Pooled	20 mg/kg +nusinersen	20 mg/kg monotherapy	20 mg/kg +nusinersen	Pooled
N	10	10	20	15	11	12	23
Mean age at baseline (min, max)	3.8 (2, 6)	4.1 (2, 6)	4.0 (2, 6)	11.7 (8, 19)	12.1 (7, 19)	13.1 (7, 21)	12.6 (7, 21)
Mean RHS score (min, max)					47.6 (26, 63)	51.3 (43, 62)	49.6 (26, 63)
Mean HFMSE score (min, max)	23.5 (14, 42)	26.1 (12, 44)	24.8 (12, 44)	22.7 (13, 39)			
Mean # of nusinersen maintenance doses (min, max)	5.4 (3, 8)	5.5 (2, 9)	5.5 (2, 9)	5.1 (2, 9)	N/A	5.6 (2, 8)	N/A
SMN2 Gene Copy* (#, %)							
2	1 (10%)	1 (10%)	2 (10%)		1 (9%)	0 (0%)	1 (4%)
3	8 (80%)	8 (80%)	16 (80%)	11 (73%)	4 (36%)	9 (75%)	13 (57%)
4	0 (0%)	1 (10%)	1 (5%)	2 (13%)	4 (36%)	1 (8%)	5 (22%)
Discontinuation(s)	0	0	0	0	0	1**	1**

*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

Majority of Ambulatory Patients Maintained or Improved in RHS Score from Baseline

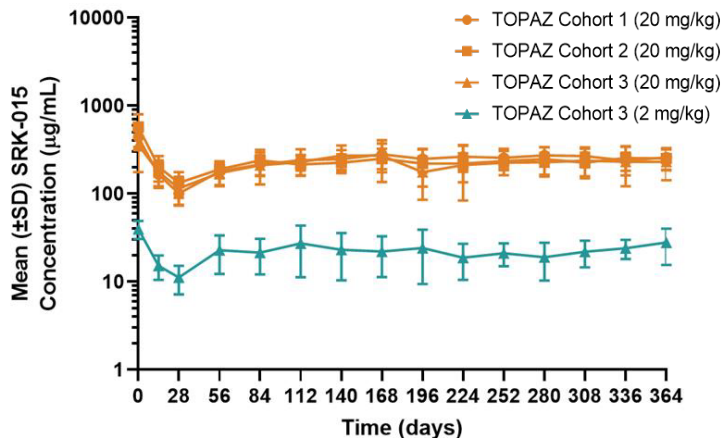
	Apitegromab 20 mg/kg monotherapy	Apitegromab 20 mg/kg + nusinersen
Mean change from baseline in RHS (95% CI)	-0.4 (-3.9, 3.1)	-0.3 (-2.0, 1.4)
# (%) patients achieving:		
≥0-pt increase in RHS	6/11 (55%)	7/12 (58%)
≥1-pt increase in RHS	4/11 (36%)	5/12 (42%)
≥3-pt increase in RHS	3/11 (27%)	2/12 (17%)
Baseline characteristics: mean (min, max)	n=11	n=12
Age	12.1 (7, 19)	13.1 (7, 21)
HFMSE score	47.6 (26, 63)	51.3 (43, 62)
# of nusinersen maintenance doses	n/a	5.6 (2, 8)

Majority maintained or improved

- 57% (13/23) with ≥0-point increase
- 39% (9/23) with ≥1-point increase
- Up to 8-point increase observed
- Results contrast with declines typically observed with natural history of ambulatory patients

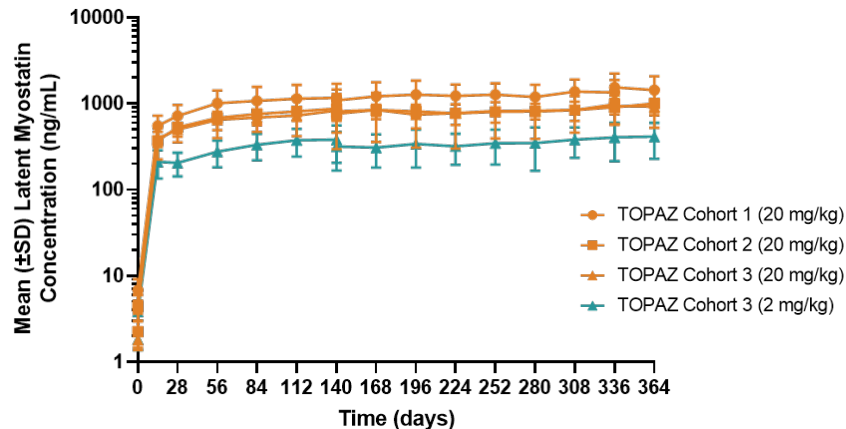
Pharmacokinetic and Pharmacodynamic Data are Supportive of Clinically Observed Effects

Pharmacokinetics* (PK)



- Dose-proportional and sustained drug exposure following chronic administration of apitegromab

Pharmacodynamics (PD)



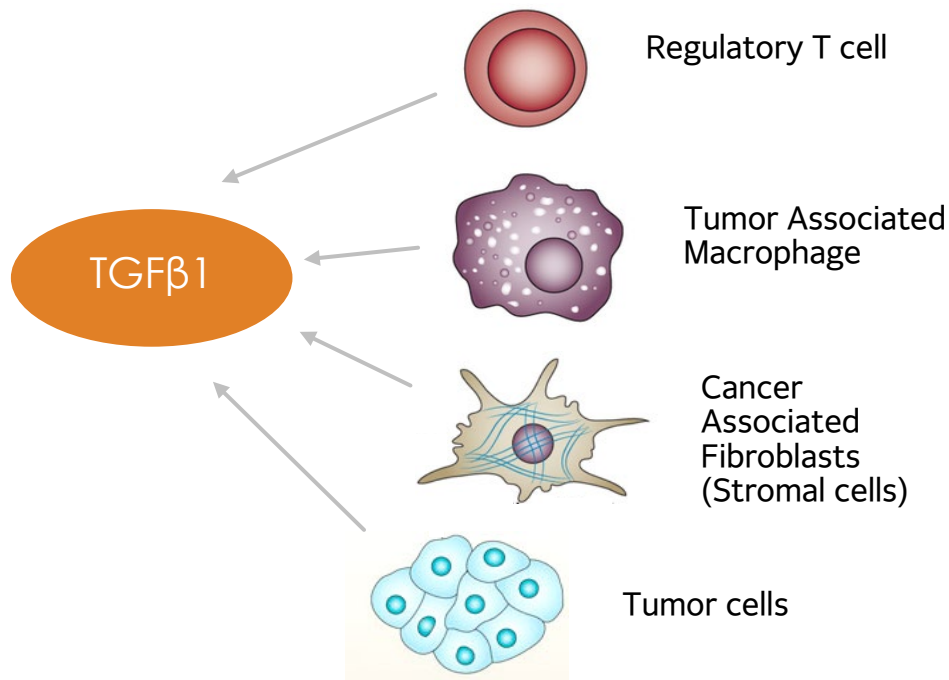
- Both 2 mg/kg and 20 mg/kg doses yielded high levels of target engagement (>100-fold increase from baseline)
- 20 mg/kg dose offers relatively higher magnitude of target engagement than 2 mg/kg dose

High levels of target engagement achieved by both doses, with relatively higher absolute levels with high dose

*Starting at day 28, measures are pre-dose trough levels

Inhibition of TGF β 1: Multipronged Approach for Immuno-Oncology

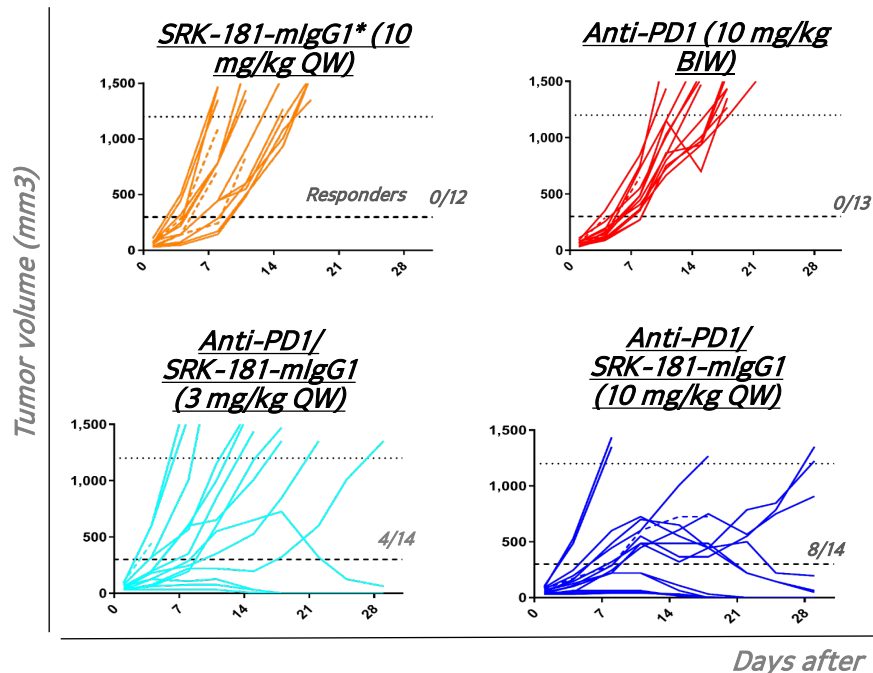
TGF β 1 is a key driver of immune system evasion by cancer cells



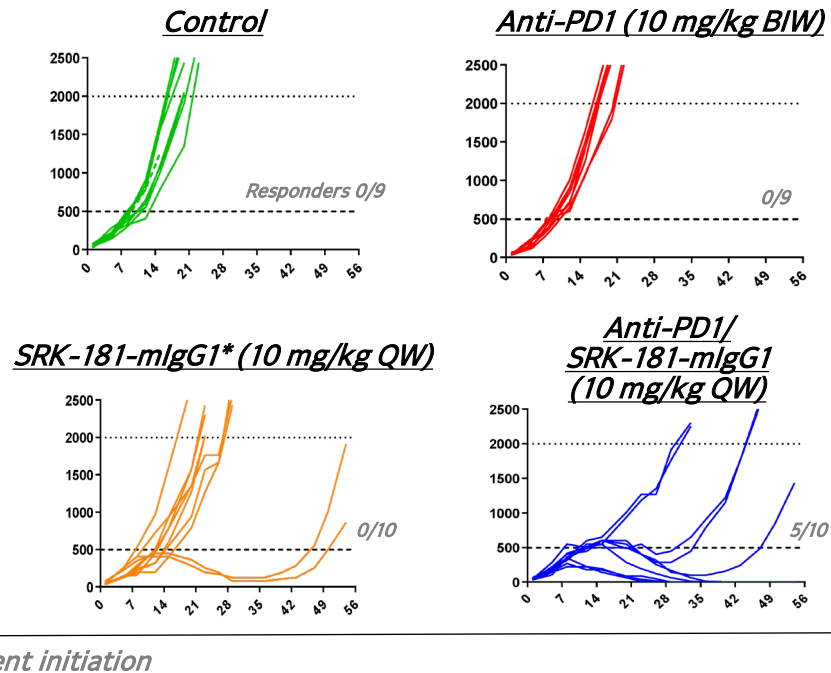
- Pathway analysis in patient tumors points to TGF β 1 as major determinant of primary resistance to anti-PD-(L)1 therapy
- TGF β 1 creates 'immune excluded' tumor microenvironment

TGF β 1 Blockade with SRK-181-mIgG1 Rendered Preclinical Tumor Models Susceptible to Anti-PD1 Therapy

Bladder Cancer



Breast Cancer (TGF β 1/3 co-expressing)



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/>.

*SRK-181-mIgG1 is the murine version of SRK-181; responder defined as tumor size <25% endpoint volume at study end.