

Investor Call to Discuss Updated Results from SRK-181 Phase 1 DRAGON Study

June 4, 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 and maintain strategic business alliances and new business initiatives, 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 March 31, 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, 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 and SRK-439 have not been established.



Welcome

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



Company Speakers



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



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



Expert Speaker



Toni Choueiri, M.D. Director of the Lank Center for Genitourinary (GU) Oncology at Dana-Farber Cancer Institute (DFCI)



Today's Agenda

Торіс	Speaker
Welcome	Jay Backstrom, President & Chief Executive Officer
SRK-181 Data Update	Jing Marantz, Chief Medical Officer
Discussion of SRK-181 Data with Toni Choueiri, M.D.	Jay Backstrom, President & Chief Executive Officer Toni Choueiri, M.D., Dana-Farber Cancer Institute
► Q&A	Jay Backstrom, President & Chief Executive Officer Ted Myles, Chief Operating Officer and Chief Financial Officer Jing Marantz, Chief Medical Officer Toni Choueiri, M.D., Dana-Farber Cancer Institute
Closing Remarks	Jay Backstrom, President & Chief Executive Officer
	Q&A



SRK-181 Data Update

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



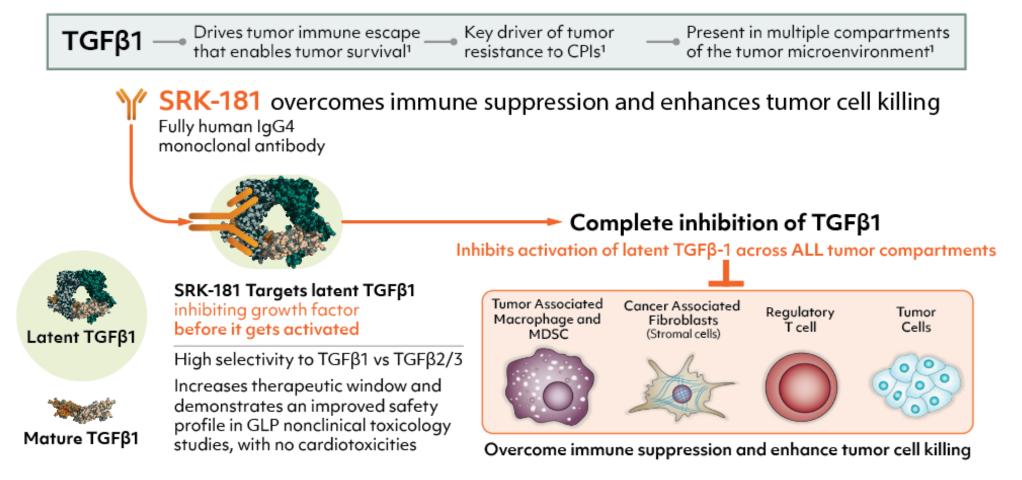
Phase 1 study (DRAGON) of SRK-181 (linavonkibart), a latent TGFβ1 inhibitor, combined with pembrolizumab in anti-PD1 resistant patients with advanced solid tumors: Updated results of expansion phase

Ulka Vaishampayan¹, Randy F. Sweis², Deepak Kilari³, Ahmad Tarhini⁴, Justin F. Gainor⁵, Minal Barve⁶, Guru Sonpavde⁷, Meredith Mckean⁸, David Park⁹, Sunil Babu¹⁰, Yawen Ju¹¹, Lan Liu¹¹, Susan Henry¹¹, Lu Gan¹¹, Timothy A. Yap¹²

¹University of Michigan, Ann Arbor, MI; ²University of Chicago, Chicago, IL; ³Medical College of Wisconsin, Milwaukee, WI; ⁴Moffitt Cancer Center Magnolia Campus, Tampa, FL; ⁵Massachusetts General Hospital Harvard Medical School, Boston, MA; ⁶Mary Crowley Cancer Research, Dallas, TX; ⁷AdventHealth Medical Group, Orlando, FL; ⁸Sarah Cannon Research Institute, Nashville, TN; ⁹St Jude Crosson Cancer Institute/Providence Medical Foundation, Fullerton, CA; ¹⁰Fort Wayne Medical Oncology and Hematology, Fort Wayne, IN; ¹¹Scholar Rock, Inc., Cambridge, MA; ¹²The University of Texas MD Anderson Cancer Center, Houston, TX



Mechanism of Action SRK-181, a Selective Anti-TGFβ1 Antibody, Overcomes CPIs Resistance

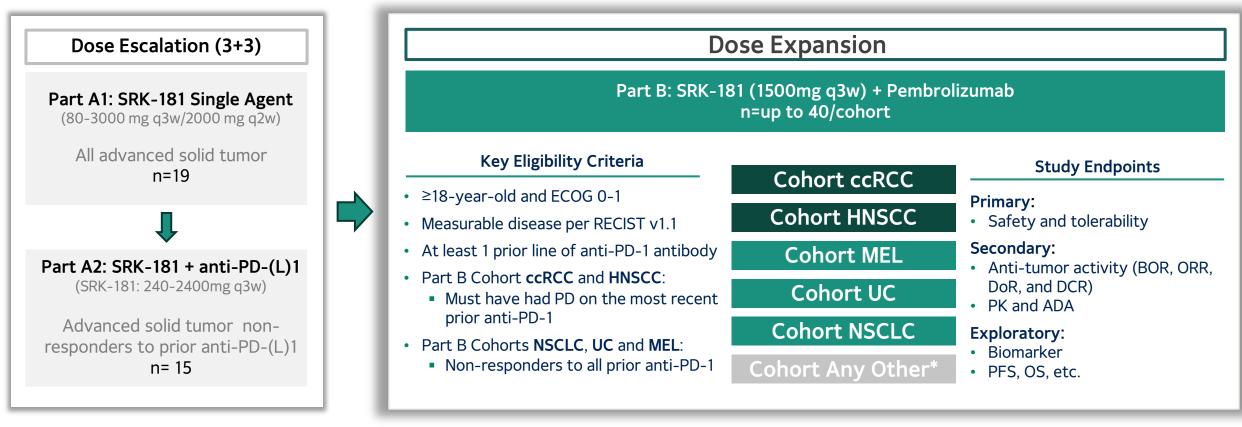


1.Batlle E, et al. *Immunity*. 2019; 50(4):924-940.

CPI, checkpoint inhibitor; GLP, good laboratory practice; MDSC, myeloid derived suppressor cells; TGFβ1, transforming growth factor beta-1.



Phase 1 Clinical Trial Overview



*Cohort Any Other was terminated early and HNSCC was added.

ADA, anti drug antibody; BOR, best overall response; ccRCC, clear cell renal cell carcinoma; DCR, disease control rate; DoR, duration of response; ECOG, eastern cooperative oncology group; HNSCC, head and neck squamous cell carcinoma; MEL, melanoma; NSCLC, non-small cell lung cancer; ORR, objective response rate; OS, overall survival; PD, progressive disease; PD-1, programmed cell death protein 1; PD-L1, programmed cell death ligand 1; PD-(L)1, PD-1/PD-L1; PFS, progression-free survival; PK, Pharmacokinetic; q2w, every 2 weeks; q3w, every 3 weeks; RECIST, response evaluation criteria in solid tumors; UC, urothelial carcinoma.

© 2024 Scholar Rock, Inc. All rights reserved.

Preliminary Safety and Efficacy Phase 1 *Dose Escalation Phase*

Safety

 SRK-181 was well tolerated: No DLTs observed; no Grade 4 or 5 treatmentrelated AEs

MAD/MTD

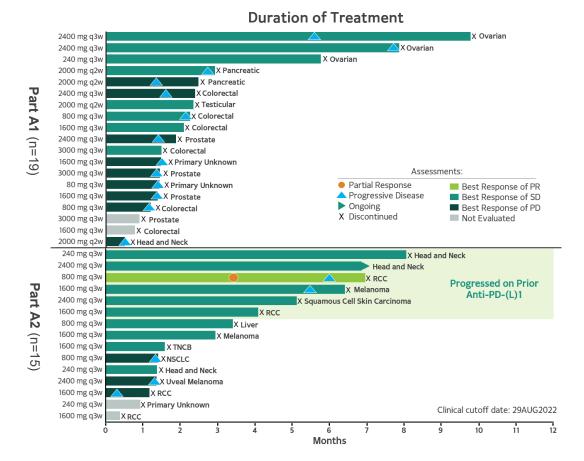
- MAD: 3000mg q3w and 2000mg q2w for single SRK-181 and 2400mg q3w for SRK-181 in combination with anti-PD-1
- MTD not reached; recommended Part B dose at 1500 mg q3w or 1000 mg q2w

PK

- · Exposure was similar between monotherapy and combination
- Approximately dose proportional exposure over 240 mg q3w
- · Minimal to no accumulation was observed after multiple doses

Efficacy

- Part A1, Single-Agent Dose Escalation
 - > All 3 ovarian cancer patients were stable beyond ~ 6-month cutoff
- Part A2, Combination Treatment Dose Escalation
 - 1 PR in anti-PD-1 resistant ccRCC patient
 - > 5 (33%) patients had SD for 4+ months
 - 1 HNSCC patient had a 29.4% tumor reduction



Martin CJ, et al. *Sci Transl Med.* 2020;12:eaay8456. Yap T, et al. *J ImmunoTherapy of Cancer* 2022;10:doi: 10.1136/jitc-2022-SITC2022.0780.

AE, adverse event; ccRCC, clear cell renal cell carcinoma; DLT, dose-limiting toxicity; HNSCC, head and neck squamous cell carcinoma; MAD, maximum administered dose; MTD, maximum tolerated does; PK, Pharmacokinetic; PD, progressive disease; PR, partial response; q2w, every 2 weeks; q3w, every 3 weeks; SD, stable disease. Data cut date: Apr 10, 2024



Patient Demographics and Disposition

Phase 1 Dose Expansion Phase

78	Freedlard	
	Enrolled	78
65y (32-81y)	On Study, n (%)	10 (12.8)
56 (71.8)		68 (87.2)
3 (1-9)		
48 (61.5) 23 (29.5) 6 (7.7) 1 (1.3)	Reason for Completion/Discontinuation, n (%) Disease Progression Based on RECIST 1.1 Clinical Progression Adverse Event ^{&} Investigator Decision Withdrawal of Consent	40 (51.3) 6 (7.7) 17 (21.8) 1 (1.3) 4 (5.1)
1 (1.3) [^] 40 (51.3) 37 (47.4)	popular and pneumonitis (2 patients), bullous pemphigoid, colitis,	erythroderma, generalized
	3 (1-9) 48 (61.5) 23 (29.5) 6 (7.7) 1 (1.3) 1 (1.3) [^] 40 (51.3)	 56 (71.8) 3 (1-9) Stopped Treatment, n (%) Reason for Completion/Discontinuation, n (%) Disease Progression Based on RECIST 1.1 Clinical Progression Adverse Event^{&} Investigator Decision Withdrawal of Consent *10 patients (12.8%) discontinued from the study due to treatmer popular and pneumonitis (2 patients), bullous pemphigoid, colitis, e

*Includes patients of 30 ccRCC, 11 HNSCC, 11 MEL, 11 UC, 11 NSCLC and 4 Any Other Cohorts.

^1 HNSCC patient had best response of PR to prior anti-PD-(L)1.

*2 MEL patients discontinued the last prior anti-PD-(L)1 due to other reason instead of disease progression.

AE, adverse event; ccRCC, clear cell renal cell carcinoma; HNSCC, head and neck squamous cell carcinoma; MEL, melanoma; NSCLC, non-small cell lung cancer; PD-1, programmed cell death protein 1; PD-L1, programmed cell death ligand 1; PD-(L)1, PD-1/PD-L1; RECIST, response evaluation criteria in solid tumors; UC, urothelial carcinoma. Data cut date: Apr 10, 2024



Manageable Safety Profile Phase 1 Dose Expansion Phase

Treatment-Emergent AEs Related to SRK-181 or Anti-PD(L)1

Adverse Event	All Grades (>5%) N=78	≥Grade 3 N= 78
Rash [#]	25 (32.1%)*	10 (12.8%)*
Pruritus	20 (25.6%)*	1 (1.3%)*
Fatigue	16 (20.5%)	1 (1.3%)
Diarrhoea	11 (14.1%)	0 (0%)
Nausea	5 (6.4%)	1 (1.3%)
ALT increased	4 (5.1%)	2 (2.6%)
AST increased	4 (5.1%)	1 (1.3%)
Arthralgia	4 (5.1%)	0 (0%)
Vomiting	4 (5.1%)	0 (0%)

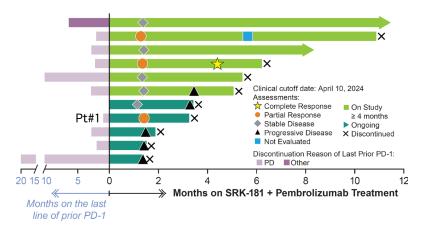
#Rash includes rash, rash macular, rash maculo-papular, rash erythematous, and rash pruritic. *Treatment-related irAE.

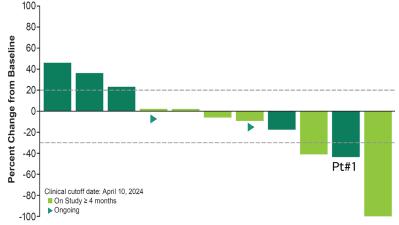
- There was 1 treatment-related Grade 4 AE
 (Dermatitis exfoliative generalised)
- There was no treatment-related Grade 5 AE
- Treatment-related SAE >2% (2 patients) were Pemphigoid (irAE)

AE, adverse event; ALT, alanine aminotransferase; AST, aspartate aminotransferase; irAE, immune-related adverse event; PD-1, programmed cell death protein 1; PD-L1, programmed cell death ligand 1; PD-(L)1, PD-1/PD-L1; SAE, serious adverse event Data cut date: Apr 10, 2024



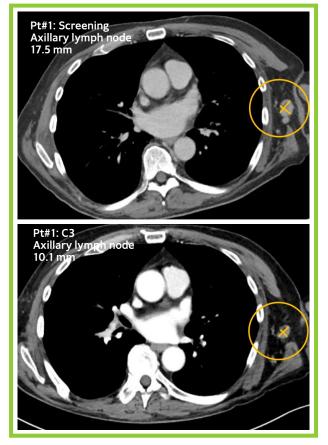
Efficacy in Cohort MEL Clinical Responses in Anti-PD-1 Non-responders





Efficacy	Intent To Treat N=11
ORR	3 (27.3%)
Confirmed CR	1 (9.1%)
Confirmed PR	1 (9.1%)
mDoR (Months)	4.9 (1.8, 7.1)
DCR	8 (72.7%)

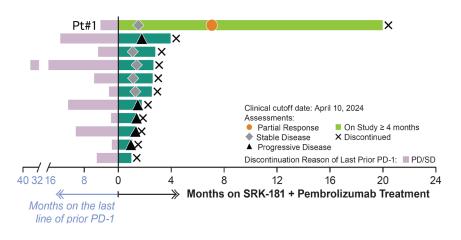
- Median lines of prior cancer therapy: 3 (range 1 7)
 - > All have SD or PD as BOR to the last prior anti-PD-1
 - > 9 (82%) had PD from the last prior anti-PD-1



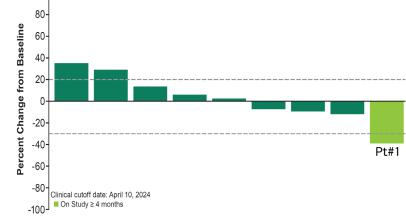
BOR, best overall response; CR, complete response; DCR, disease control rate; mDoR, median duration of response; MEL, melanoma; ORR, objective response rate; PD, progressive disease; PD-1, programmed cell death protein 1; PR, partial response. Data cut date: Apr 10, 2024



Efficacy in Cohort UC Clinical Responses in Anti-PD-1 Non-responders



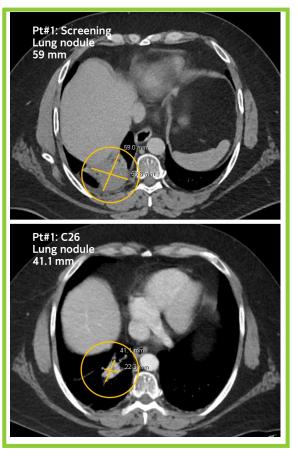
Efficacy	Intent To Treat N=11
ORR	1 (9.1%)
Confirmed PR	1 (9.1%)
mDoR (Months)	12.9 (12.9, 12.9)
DCR	5 (45.5%)



- Median lines of prior cancer therapy: 4 (range 2 5)
- > All have SD or PD as BOR to the last prior anti-PD-1
- All had PD from the last prior anti-PD-1

BOR, best overall response; DCR, disease control rate; mDoR, median duration of response; ORR, objective response rate; PD, progressive disease; PD-1, programmed cell death protein 1; PR, partial response; SD, stable disease; UC, urothelial carcinoma. Data cut date: Apr 10, 2024

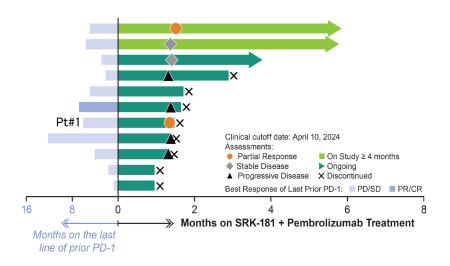
100-

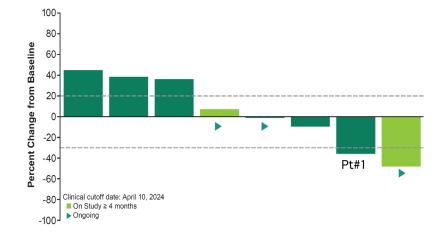


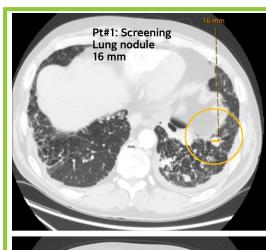


Efficacy in Cohort HNSCC

Clinical Responses in Heavily Pre-treated and Anti-PD-1 Resistant Patients



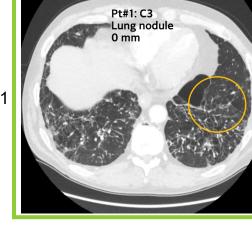




Efficacy	Intent To Treat N=11	
ORR	2 (18.2%)	
Confirmed PR	1 (9.1%)	_
mDoR (Months)	2.2+ (0.1, 4.3+)	
DCR	4 (36.4%)	

Median lines of prior cancer therapy: 3 (range 1 – 7)

- 10 (91%) have SD or PD as BOR to the last prior anti-PD-1
- All had PD from the last prior anti-PD-1

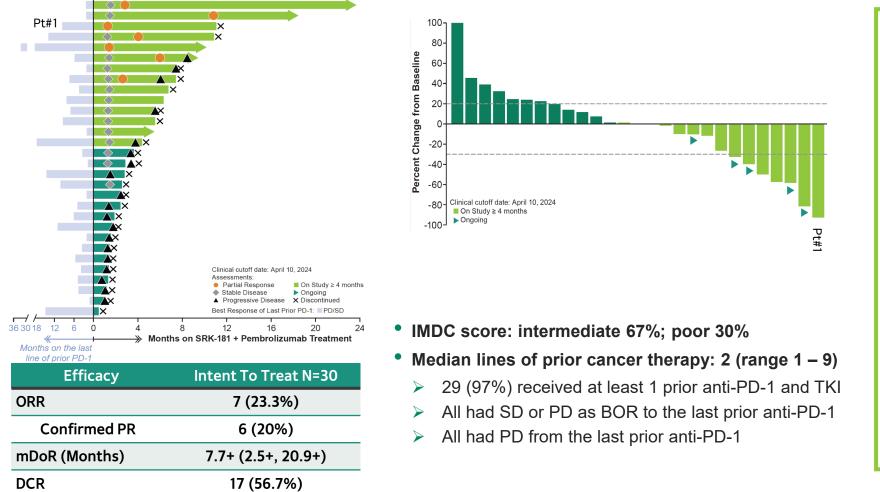


BOR, best overall response; DCR, disease control rate; HNSCC, head and neck squamous cell carcinoma; mDoR, median duration of response; ORR, objective response rate; PD, progressive disease; PD-1, programmed cell death protein 1; PR, partial response; SD, stable disease. Data cut date: Apr 10, 2024



Efficacy in Cohort ccRCC

Clinical Responses in Heavily Pre-treated and Anti-PD-1 Resistant Patients



Lymph node 21.5 mm Pt#1: C8 Lymph node 5 mm

Pt#1: Screening

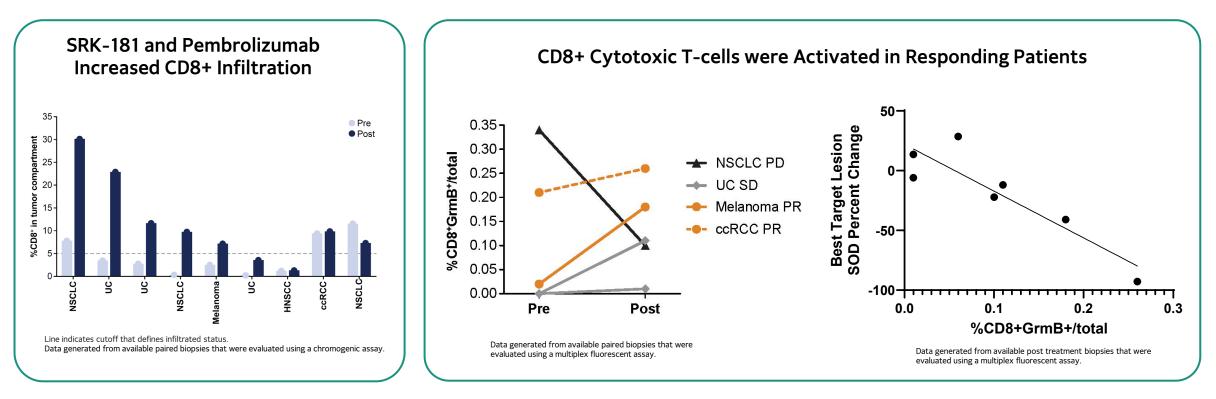
BOR, best overall response; DCR, disease control rate; IMDC, International Metastatic Renal Cell Carcinoma Database Consortium; mDoR, median duration of response; ORR, objective response rate; PD, progressive disease; PD-1, programmed cell death protein 1; PR, partial response; SD, stable disease; TKI, tyrosine kinase inhibitor. Data cut date: Apr 10, 2024



Proof of Mechanism

SRK-181 and Pembrolizumab Treatment Creates a Proinflammatory Microenvironment

- SRK-181 and pembrolizumab increase CD8+ T-cells infiltration into tumors across multiple tumor types
- CD8+ T-cell were activated (CD8+GrmB+) in responding patients across multiple cohorts
- The number of CD8+GrmB+ cells correlates with tumor shrinkage

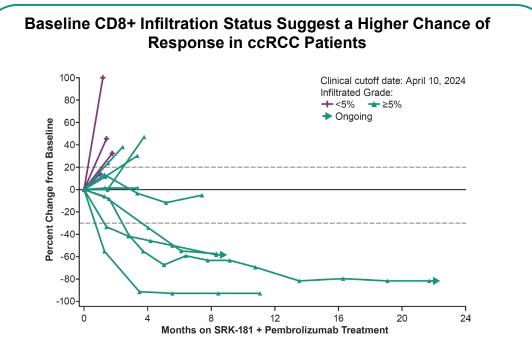


ccRCC, clear cell renal cell carcinoma; CD, cluster of differentiation; GrmB, Granzyme B; HNSCC, head and neck squamous cell carcinoma; NSCLC, non-small cell lung cancer; PD, progressive disease; PR, partial response; SD, stable disease; UC, urothelial carcinoma. Data cut date: Apr 10, 2024

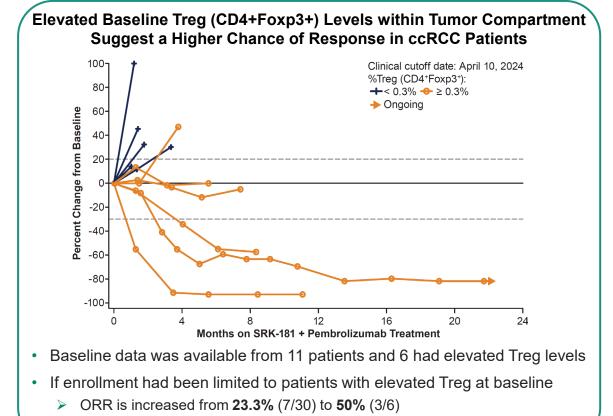
Scholar Rock 18 © 2024 Scholar Rock, Inc. All rights reserved.

Biomarker Data May Inform Patient Selection Strategy

Baseline CD8+ T-cell Infiltration Status and Baseline Treg Levels Suggest a Higher Chance of Clinical Response



- Baseline data was available from 14 patients and 10 were infiltrated
- If enrollment had been limited to patients who were infiltrated at baseline:
 - > ORR is increased from **23.3%** (7/30) to **40%** (4/10)
 - mDoR is improved from 7.7 months to 9.3 months



> mDoR is improved from 7.7 months to 9.8 months

*1 patient progressed prior to 1st scan, so not represented on spider plot.

ccRCC, clear cell renal cell carcinoma; CD, cluster of differentiation; mDoR, median duration of response; Foxp3, forkhead box p3; ORR, objective response rate; TGFβ1, transforming growth factor beta-1; Treg, T regulatory cells Data cut date: Apr 10, 2024



Summary

Objective evidence of anti-tumor activity across multiple cancer types with duration of response up to 20+ months

- ORR 23.3% in ccRCC, 18.2% in HNSCC, 27.3% in MEL, including 1 CR, and 9.1% in UC
- mDoR were 7.7+m in ccRCC, 2.2+m in HNSCC, 4.9m in MEL and 12.9m in UC

Biomarker findings establish proof of mechanism and inform potential patient selection strategy

- Combination was associated with enhanced proinflammatory microenvironment with activation of CD8+ T-cells in responding patients across multiple cohorts and the number of activated T-cells correlating with tumor shrinkage
- In baseline CD8+ T-cells infiltrated ccRCC patients, ORR increases from 23.3% to 40% with mDoR improving from 7.7 months to 9.3 months
- In baseline Treg elevated ccRCC patients, ORR increases from 23.3% to 50% with mDoR improving from 7.7 months to 9.8 months

Safety profile with the combination of SRK-181 and pembrolizumab was manageable

- Treatment-related AEs were primarily skin toxicities with 1 Grade 4 skin event; no Grade 5 event
- Treatment-related G3+ AEs ≥ 5% were rash only and treatment-related SAE ≥ 2% were pemphigoid only

AE, adverse event; ccRCC, clear cell renal cell carcinoma; CD, cluster of differentiation; CR, complete response; HNSCC, head and neck squamous cell carcinoma; mDoR, median duration of response; MEL, melanoma; ORR, objective response rate; PD, progressive disease; PR, partial response; SAE, serious adverse events; SD, stable disease; Treg, T regulatory cells; UC, urothelial carcinoma.



Conclusion

- Anti-tumor activity in anti-PD1 resistant patients across multiple cancer types establishes proof-of-concept for SRK-181, a selective latent TGFβ1 inhibitor
- Biomarker results establish proof of mechanism and inform potential patient selection strategy in ccRCC
- These data warrant further investigation of SRK-181



TGFβ1, transforming growth factor beta-1.

Today's Agenda

Торіс	Speaker		
Welcome	Jay Backstrom, President & Chief Executive Officer		
SRK-181 Data Update	Jing Marantz, Chief Medical Officer		
Discussion of SRK-181 Data with Toni Choueiri, M.D.	Jay Backstrom, President & Chief Executive Officer Toni Choueiri, M.D., Dana-Farber Cancer Institute		
► Q&A	Jay Backstrom, President & Chief Executive Officer Ted Myles, Chief Operating Officer and Chief Financial Officer Jing Marantz, Chief Medical Officer Toni Choueiri, M.D., Dana-Farber Cancer Institute		
 Closing Remarks 	Jay Backstrom, President & Chief Executive Officer		
	Q&A		



Discussion of SRK-181 Data with Dr. Toni Choueiri, M.D.



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



Toni Choueiri, M.D. Director of the Lank Center for Genitourinary (GU) Oncology at Dana-Farber Cancer Institute (DFCI)



Q&A Session









Jay Backstrom, M.D., MPH President & Chief Executive Officer Jing Marantz, M.D., Ph.D. Chief Medical Officer **Ted Myles, MBA** Chief Operating Officer and Chief Financial Officer **Toni Choueiri, M.D.** Director of the Lank Center for Genitourinary (GU) Oncology at Dana-Farber Cancer Institute (DFCI)

