UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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CURRENT REPORT

Pursuant to Section 13 OR 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): September 9, 2020

PIERIS PHARMACEUTICALS, INC.

(Exact name of registrant as specified in its charter)

001-37471

30-0784346

Nevada

	(State or other jurisdiction of (Commission Incorporation) File Number)			(IRS Employer Identification No.)
		225 State Street, 9th Floor	02109	
		Boston, MA		
		(Address of principal executive offices)	(Zip Code)	
		Registrant's telephone number, includin N/A (Former name or former address, if cl		
Check th	ne appropriate box below if the Form 8	-K filing is intended to simultaneously satisfy the	e filing obligation of the regist	rant under any of the following provisions:
	Written communications pursuant to	Rule 425 under the Securities Act (17 CFR 230.	425)	
	Soliciting material pursuant to Rule	14a-12 under the Exchange Act (17 CFR 240.14a	a-12)	
	Pre-commencement communication	s pursuant to Rule 14d-2(b) under the Exchange	Act (17 CFR 240.14d-2(b))	
	Pre-commencement communication	s pursuant to Rule 13e-4(c) under the Exchange A	Act (17 CFR 240.13e-4(c))	
Securitie	s registered pursuant to Section 12(b) of t	he Act:		
	Title of each class	Trading Symbo	ol(s)	Name of each exchange on which registered
	Common Stock, \$0.001 par value per s	hare PIRS		The Nasdaq Capital Market
	by check mark whether the registrant es Exchange Act of 1934 (17 CFR §24	is an emerging growth company as defined in Rul 0.12b-2).	le 405 of the Securities Act of	1933 (17 CFR §230.405) or Rule 12b-2 of the
Emergin	g Growth Company □			

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Item 7.01 Regulation FD Disclosure.

Attached hereto as Exhibit 99.1 and incorporated by reference herein is the September 2020 Investor Presentation of Pieris Pharmaceuticals, Inc.

The information set forth under this "Item 7.01. Regulation FD Disclosure," including Exhibit 99.1 attached hereto, shall not be deemed "filed" for any purpose, and shall not be deemed incorporated by reference into any filing under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended, regardless of any general incorporation language in any such filing. except as shall be expressly set forth by specific reference in such filing.

(d) Exhibits.
99.1 Investor Presentation, Dated September 2020.

Item 9.01 Financial Statements and Exhibits

SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

PIERIS PHARMACEUTICALS, INC.

Dated: September 9, 2020

/s/ Tom Bures

Tom Bures

Vice President, Finance



Forward Looking Statements

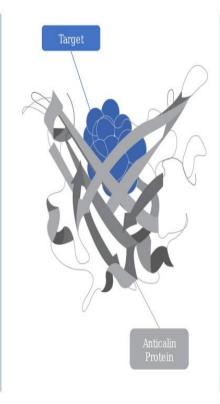
This presentation contains forward-looking statements as that term is defined in Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. Statements in this presentation that are not purely historical are forward-looking statements. Such forward-looking statements include, among other things, the timing for, and outcome of, the additional in-use and compatibility study for PRS-343 as requested by the FDA; whether data from patients enrolled to date will be sufficient to inform the recommended phase 2 dose for the Company's planned proof of concept study of PRS-343 in gastric cancer; the expected timing and potential outcomes of the reporting by the Company of key clinical data from its programs, references to novel technologies and methods and our business and product development plans, including the advancement of our proprietary and codevelopment programs into and through the clinic and the expected timing for reporting data, making IND filings or achieving other milestones related to our programs, including PRS-060/AZD1402, PRS-343, PRS-344, and PRS-352 and the expected timing of the initiation of the next stage of PRS-343's development in gastric cancer. Actual results could differ from those projected in any forward-looking statements due to numerous factors. Such factors include, among others, our ability to raise the additional funding we will need to continue to pursue our business and product development plans; the inherent uncertainties associated with developing new products or technologies and operating as a development stage company; our ability to develop, complete clinical trials for, obtain approvals for and commercialize any of our product candidates, including our ability to recruit and enroll patients in our studies; our ability to address the requests of the FDA, including with respect to the additional in-use and compatibility study for PRS-343, and the resolution of the partial clinical hold relating to that drug candidate; competition in the industry in which we operate; delays or disruptions due to COVID-19; and market conditions. These forward-looking statements are made as of the date of this presentation, and we assume no obligation to update the forward-looking statements, or to update the reasons why actual results could differ from those projected in the forward-looking statements, except as required by law Investors should consult all of the information set forth herein and should also refer to the risk factor disclosure set forth in the reports and other documents we file with the SEC available at www.sec.gov, including without limitation the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2019 and the Company's Quarterly Reports on Form 10-Q.



The Anticalin® Protein Platform

A Novel Therapeutic Class with Favorable Drug-Like Properties

- Human Derived from lipocalins (human extracellular binding proteins)
- Small Monomeric, monovalent, small size (~18 kDa vs 150kDa mAbs)
- Stable Inhalable delivery
- Simple Bi/multispecific constructs
- Proprietary Broad IP position on platform and derived products



Powerful Drug Discovery Platform

- · Highly diverse libraries
- Automated screening
- Protein engineering know-how

Translational Science Expertise to Deploy Platform in Meaningful Way

- Immunology expertise underpins IO and respiratory focus
- A leaderin 4-1BB-related efforts
- Patient phenotyping efforts for improved stratification and novel intervention points in, e.g., asthma



Company Snapshot

Pipeline Highlights

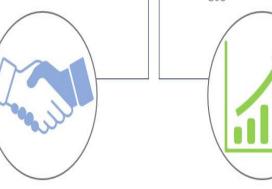
- PRS-060: Inhaled IL4-Rα antagonist for moderate-to-severe asthma (partnered with AstraZeneca)
- PRS-343: 4-1BB/HER2 bispecific for solid tumors
- Next-generation respiratory: Includes 4 discovery-stage inhaled therapeutics programs (2 proprietary, 2 partnered with AstraZeneca)
- 4-1BB-based bispecifics: Multiple proprietary and partnered 4-1BBbased programs for IO

Anchor Partnerships

- Validation through three anchor partnerships
- \$120+Min upfront payments and milestones since J anuary 2017
- Each partnership includes options for co-development & US-focused commercialization rights
- Value-driving opt-in for PRS-060 after phase 2a completion

Upcoming Catalysts

- Respiratory:
 - PRS-060 phase 2a trial initiation
 - Data and rationale for advancement into IND-enabling studies for whollyowned inhaled program
- IO:
 - PRS-343 complete monotherapy and combination with atezolizumab phase 1 escalation data at ESMO
 - PRS-343 initiation of 2nd line HER2+ gastric cancer PoC study, additive to SoC





Partnerships



- PRS-060 +4 additional novel inhaled Anticalin protein programs
- Retained co-development and cocommercialization (US) options on PRS-060 and up to 2 additional programs
- \$57.5M upfront & 2017 milestone
- \$2.1B in milestone potential, plus doubledigit royalties
- AZ funds all PRS-060 development costs through post-phase 2a co-development opt-in decision
- Access to complementary formulation and device know-how for inhaled delivery



- Immuno-oncology partnership based on antibody-Anticalin bispecific protein fusions
- PRS-344: PD-L1/4-1BB antibody-Anticalin bispecific
 - ✓ Piens opted in for full U.S. rights
- PRS-352: n.d. antibody-Anticalin bispecific
 - Pieris planning handover to Servier in 2020
 - Pieris to receive royalties
- \$31M upfront payment with significant milestone potential
 - ▼ Two preclinical milestones achieved for PRS-344

SeattleGenetics

- 3-program partnership based on tumorlocalized costimulatory bispecific fusion proteins
- Pieris retains opt-in rights for 50/50 global profit split and U.S. commercialization rights on one of the programs
- \$30M upfront payment, ~\$1.2B milestone potential
 - Achieved \$5M milestone payment for first program, a bispecific tumortargeted costimulatory agonist
- Up to double-digit royalties on non-codeveloped products

Strong Partners • Significant Cash Flow • Retained Commercial Rights



Pipeline

RESPIRATORY							
CANDIDATE	TARGETS	PARTNER	COMMERCIAL RIGHTS	DISCOVERY	PRECLINICAL	PHASE I	PHASE II
PRS-060/AZD1402	II.4-Ra	AstraZeneca 2	Pieris Worldwide Profit-Share Option				
AstraZeneca Programs*	n.d.	AstraZeneca 2	Pieris Worldwide Profit-Share Option*				
Proprietary Programs	n.d.	n/a	Pieris Worldwide				

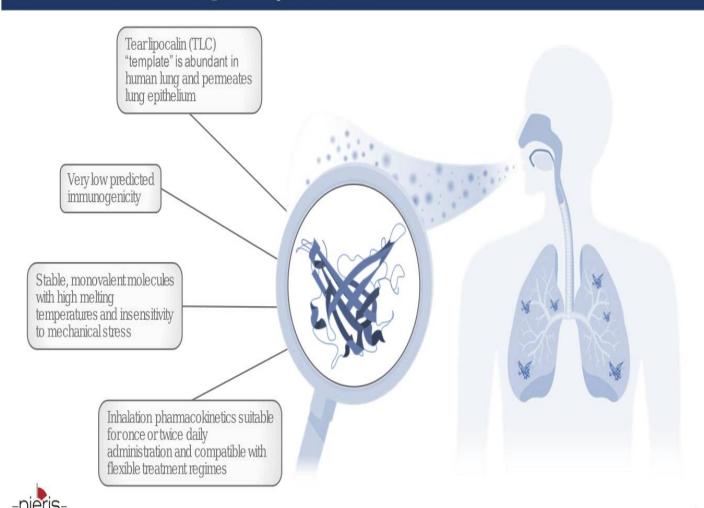
*4 additional respiratory programs (3 active, 1 forthcoming) in collaboration with AstraZeneca, 2 of which carry co-development and co-commercialization options for Pieris

MMUNO-ONCOLOGY							
CANDIDATE	TARGETS	PARTNER	COMMERCIAL RIGHTS	DISCOVERY	PRECLINICAL	PHASE I	PHASE II
ppc 242	HER2/4-1BB	n/a	Dina W. 34, 34				
PRS-343	+Anti-PD-L1	n/a	Pieris Worldwide		i.		
PRS-344	PD-L1/4-1BB	* # SERVIER	Pieris U.S. Rights				
PRS-352	n.d.	* # SERVIER	* = SERVIER				
Proprietary IO Programs	n.d.	n/a	Pieris Worldwide				
Seattle Genetics Program‡	co-stim agonist	SeattleGenetics	Pieris U.S. Option‡				

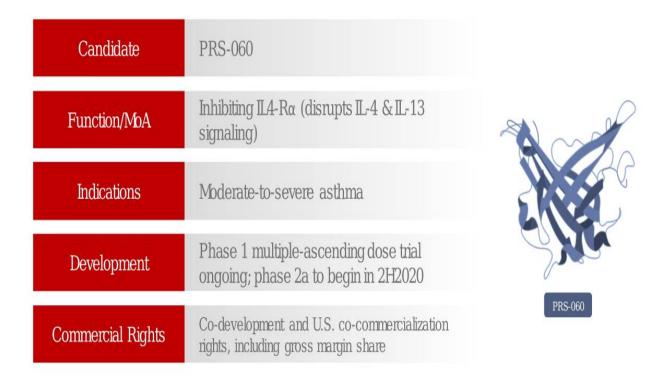
‡3 bispecific programs (1 active, 2 forthcoming) in collaboration with Seattle Genetics, with Pieris retaining US rights for 1 program



Anticalin Technology Advantages: Differentiated Respiratory Platform



PRS-060: IL-4Rα Antagonist





PRS-060 Phase I Multiple Ascending Dose Trial

Strategic Objectives

Ascertain PK/PD with a reliable biomarker to confirm local target engagement and inform Phase II dosage regimen

Trial Design Highlights

Dosing patients with mild asthma with elevated FeNO levels (≥35 ppb), to receive inhaled PRS-060 or pbo b.i.d.*over a 10-day period

*q.d. on Day 10

Initiated in July 2018

Evaluating safety, tolerability, PK, PD and will also evaluate FeNO reduction vs. placebo

Measuring safety, tolerability and FeNO changes days 1-10,17, and 40

Pieris is sponsoring the trial, AstraZeneca is reimbursing Pieris for all associated costs





Phase 1b Interim Results: Favorable Safety Profile

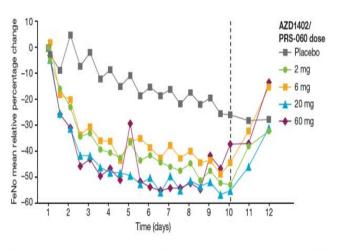
- All doses of AZD1402/PRS-060 tested in the study were well tolerated
- · No treatment-related serious AEs were observed

System organ class AE Preferred Terms ^b	Placebo (N = 12) n (%) m	AZD1402/PRS-060° (N = 30) n (%) m	Overall (N = 42) n (%) m
Gastrointestinal disorders	4 (33.3) 4	13 (43.4) 14	17 (40.5) 18
Dry mouth	1 (8.3) 1	2 (6.7) 2	3 (7.1) 3
Nausea	1 (8.3) 1	3 (10.0) 3	4 (9.5) 4
Infections and infestations	1 (8.3) 1	7 (23.3) 8	8 (19.0) 9
Upper respiratory tract infection	1 (8.3) 1	3 (10.0) 4	4 (9.5) 5
Nervous system disorders	5 (41.7) 9	13 (43.4) 18	18 (42.9) 27
Headache	3 (25.0) 6	5 (16.7) 7	8 (19.0) 13
Presyncope	0	4 (13.3) 6	4 (9.5) 6
Respiratory, thoracic and mediastinal disorders	6 (50.0) 6	14 (46.7) 15	20 (47.6) 21
Cough	1 (8.3) 1	4 (13.3) 4	5 (11.9) 5
Rhinomhoea	2 (16.7) 2	1 (3.3) 1	3 (7.1) 3
Wheezing	2 (16.7) 2	4 (13.3) 5	6 (14.3) 7



Phase 1b Interim Results: Robust FeNO Reduction

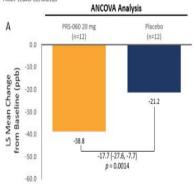
PRS-060 Relative FeNO Reduction (Emax Analysis)

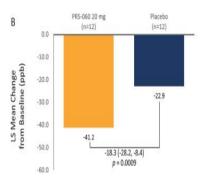


PRS-060, mg (delivered)	n	Reduction vs. placebo, % (95% CI)	p-value
2	6	24.0 (1.8-41)	0.04
6	6	24.3 (2.7-41)	0.03
20	12	36.4 (22-48)	<0.0001
60	6	30.5 (10-46)	0.005
Placebo	12		

PRS-060 Relative FeNO Reduction (ANCOVA Analysis)

Mean change from baseline in FeNO levels at $0.5h\,(A)$ and $2h\,(B)$ post-dose on Day 10 in participants with mild asthma

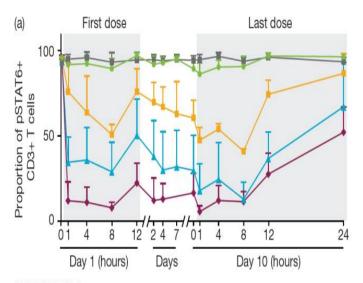






Phase 1b Interim Results: Pharmacological Versatility

pSTAT6 levels over time following inhalation of PRS-060



AZD1402/PRS-060 dose

- -- Placebo (n = 8)
- 2 mg (n = 6)
- ---- 6 mg (n = 4)
- → 20 mg (n = 6)
- → 60 mg (n = 2)



No systemic target engagement and minimal systemic exposure was observed at the 2mg dose, suggesting that local target engagement by the drug is sufficient to reduce airway inflammation

Pharmacological versatility, given low-dose FeNO reduction with no observed systemic activity (pSTAT6) versus high-dose FeNO reduction with systemic activity

4-1BB Agonism Offers Promise of Material Clinical Benefit

Unique Attributes of 4-1BB Agonism on Tumor-specific T Cells

- ✓ Increases T-cell proliferation to bolster immune repertoire
- ✓ Enhances cytotoxicity for tumor killing
- ✓ Improves metabolic fitness for increased survival of T cells
- ✓ Drives T-cell memory phenotype for increased durability

Pieris' 4-1BB bispecifics recognize that 4-1BB agonists have proven clinical potency, yet must be kept out of the liver to ensure suitable therapeutic index



PRS-343: Proprietary Lead IO Asset



Phase 1 escalation data at ESMO

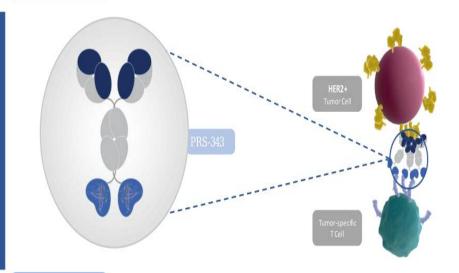


PRS-343 Localizes 4-1BB Agonism Within HER2+Tumors

HER2-targeting Antibody

HER2-targeting moiety of the drug localizes to the tumor microenvironment and facilitates 4-1BB cross-linking

4-1BB cross-linking ameliorates T-cell exhaustion and is critical for T-cell expansion



4-1BB-targeting Anticalin Proteins



Monotherapy and Combination Studies: Enabled Meaningful Clinical Characterization of PRS-343

Snapshot

- Patients with HER2+ solid tumors
- · Monotherapy and combination with atezolizumab
- Interim monotherapy data presented at SITC '19
- Initial combtherapy data presented at R&D Day (Nov '19)

Primary Objectives

- Characterize safety profile
- · Identify MID or RP2D

Secondary Objectives

- · Characterize PK profile
- · Investigate dosing schedule
- · Assess potential immunogenicity and PD effects
- Investigate efficacy

Mono Dose Cohort*	Dose (mg/kg)	Combo Dose Cohort**
1	0.0005 (Q3W)	¥
2	0.0015	-
3	0.005	=
4	0.015	-
5	0.05	1
6	0.15	2
7	0.5	3
8	1	4
9	2.5	5
10	5	6
11	8	7
11b	8 (Q2W)	

9-11b: activate dose cohorts in mono study

*Additional dose cohorts enrolling in monotherapy study

**1200mg flat dose of atezolizumab



Single-agent Clinical Benefit and Enhanced Durability in Checkpoint Combination Therapy

Monotherapy Clinical Benefit

Cohort Best Response	11B 8mg/kg, Q2W	11A 8mg/kg, Q3W	10 5mg/kg, Q3W	9 2.5mg/kg, Q3W	Total
Enrolled Patients	8	7	9	6	30
Response Evaluable Patients	7	4	5	5	21
PR	3				3
SD	3	3	2	2	10
ORR	43%	0%	0%	0%	14%
DCR	86%	75%	40%	40%	62%

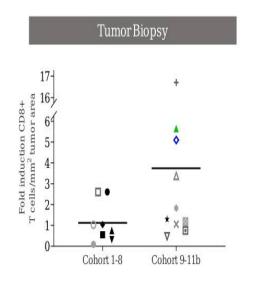
- Additional clinical benefit, including complete response, observed in cohorts beyond 11B (currently enrolling)
- Clinical benefit also observed in combination study, including patients with deep partial responses and durable benefit

Data cut-off: 11-May-20 for subjects up to Cohort 11b; additional cohorts enrolling



Paired Biopsy Analysis Supports 4-1BB-related MoA





Pronounced increase in CD8+T cell numbers is observed post-treatment in patients receiving doses ≥ 2.5 mg/kg

Patients benefiting from treatment (SD > 120 days (blue) and PR (green) had more pronounced increase in CD8+T cell number in tumor vs. stroma

PD correlates with PK

Clinical benefit correlates with PD

Data cut-off: 23-Oct-19 for subjects up to Cohort 11b; additional cohorts enrolling



Phase 2 PoC Study in 2nd Line Gastric Cancer

Phase 2 Initiation in 2H20

PRS-343 in combination with ramucirumab and paclitaxel for 2nd-line HER2+gastric cancer

Clinical trial collaboration with Eli Lilly; Lilly to supply ramucirumab

Single-arm, up to 60 patients

Primary endpoints: ORR and DCR

HER2+subgroup from RAINBOW trial as comparator enriched w/ RWD

GC 2L PIVOTAL TRIAL



PRS-343 PoC Trial Considers Several Value-driving Elements

Factor

Impact

Biology:

Synergistic MoA in IO-amenable Patients

- Vasculature normalization from ramucirumab for improved environment for T-cell infiltration
- Tumor debulking and antigen release from paclitaxel for improved disease control and enhanced immune priming

Regulatory:

Additive to Standard of Care

- · Straightforward path from PoC to pivotal
- Reduced patient enrollment hurdles compared to monotherapy study

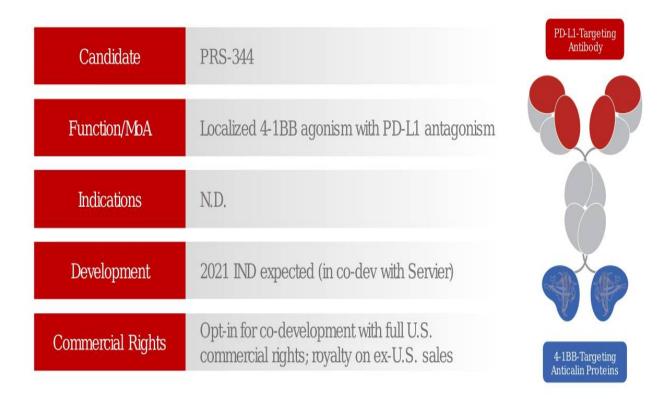
Commercial:

Meaningful Beachhead Indication

- Second line gastric cancer market size in US, EU5, and JP is up to \$1.7B
- Upside in several other tumors



PRS-344: Meaningfully Building on Localized MoA of PRS-343





Financial Overview (As of 6/30/20)











*Excludes \$5M Seattle Genetics milestone achieved in Q3

Recent Milestones and Expected Catalysts

2019 Milestones

- Respiratory: Inhaled IL4-Rα antagonist (PRS-060)
 - ✓ SAD phase 1 data at ATS 2019
 - ✓ MAD phase 1 data, including FeNO reduction vs. placebo, at ERS 2019
- IO: 4-1BB/HER2 bispecific (PRS-343)
 - ✓ Monotherapy phase 1 data at SITC 2019
 - ✓ Initial combination phase 1 data at R&D Day



Upcoming Catalysts

Respiratory:

- ☐ PRS-060 phase 2a trial initiation
- ☐ Data and rationale for advancement into INDenabling studies for wholly-owned inhaled program
- IO:
 - PRS-343 complete monotherapy and combination with atezolizumab phase 1 escalation data at ESMO
 - □ PRS-343 initiation of focused development in gastric cancer







PRS-343 Monotherapy Treatment-Related Adverse Events Cohorts 9-11b

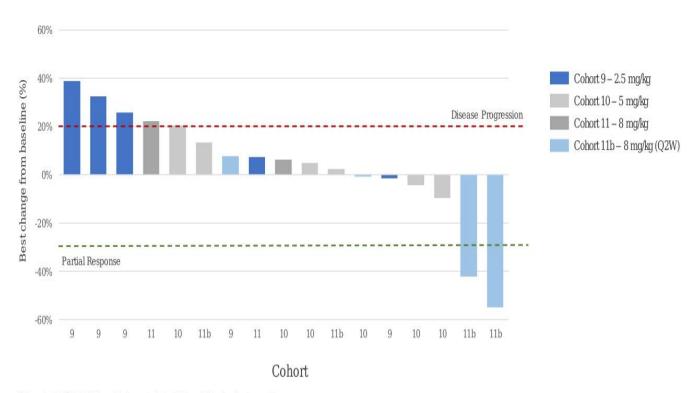
TRAE	Number (%)	Grade 3 (%)
Infusion related reactions	6 (9%)	2 (3%)
Nausea and vomiting	8 (12%)	0
Chills	5 (8%)	0
Arthralgias	4 (6%)	1 (2%)
Flushing	4 (6%)	3 (5%)
Decreased appetite	3 (5%)	0
Hypotension	3 (5%)	1 (2%)
Increased Lipase	3 (5%)	1 (2%)
Non cardiac chest pain	3 (5%)	1 (2%)

No Grade 4 or 5 Treatment-Related AEs

Data cut-off: 23-Oct-19 for subjects up to Cohort 11b; additional cohorts enrolling



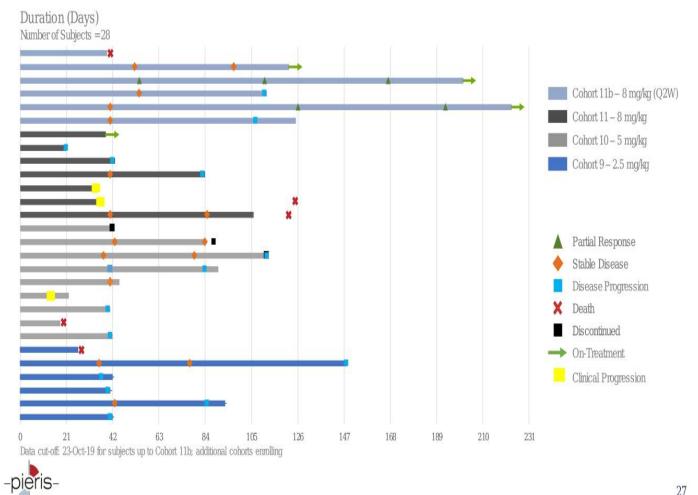
Best Response in Target Lesions Cohorts 9-11b



Data cut-off: 23-Oct-19 for subjects up to Cohort 11b; additional cohorts enrolling



Average Time on Treatment with PRS-343 Significantly Increases in Cohort 11b (8 mg/kg Q2W)



Case Study #1: Gastric Cancer Patient with Confirmed Partial Response Patient Profile, Treatment History and Treatment Outcome

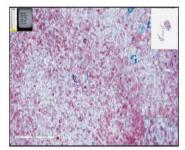
Patient Profile Cohort 11b 8 mg/kg every two weeks	Oncology Treatment History	Duration	Best Response
 80-year old woman; initial diagnosis in J une 2017 Stage IV gastric adenocarcinoma Metastases to liver, lymph node and adrenal glands HER2 IHC 3+, PD-L1 positive (CPS=3) 	Trastuzumab, Pembrolizumab + Capecitabine/oxaliplatin	July 2017 – June 2018	Stable Disease
 NGS: ERBB2 amplification, TP53 mutation, alteration of CDK12 and SF3B1 	Nivolumab with IDO1 inhibitor (investigational drug)	Aug 2018 – Jan 2019	Stable Disease

* 1	T : 00	Lesion Size (mm)					
Lesions	Lesion Site	Baseline	C2 Post-treatment	C3 Post-treatment	C4 Post-treatment	C6 Post-treatment	
Target 1	Liver	14	12	10	9	9	
Target 2	Liver	20	16	10	8	8	
Target 3	Pancreas	19	16	14	14	14	
% Change from Baseline			-17%	-36%	-42%	-42%	
Non-target 1	Lung	Present	Present	Present	Present	Present	
Non-target 2	Stomach	Present	Present	Present	Present	Absent	
Non-target 3	Stomach	Present	Present	Present	Present	Absent	

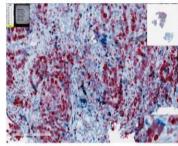


PR, partial response; HER2, human epidermal growth factor receptor 2; PDL1, Programmed Death Ligand 1; CPS, combined positive score; NGS, next-generation sequencing Data cut-off: 23-Oct-19

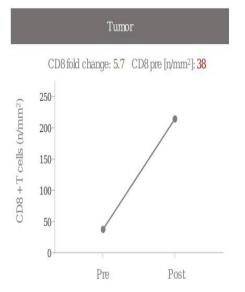
CD8+T Cell Numbers Increase Post-Treatment in Responding Gastric Cancer Patient

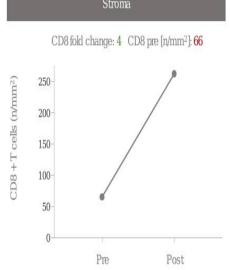


Pre-Treatment (CD8: Teal | Ki67: Red)



Post-Treatment (CD8: Teal | Ki67: Red)





CD8+T cell numbers increase post-treatment. This is more pronounced in tumortissue and consistent with the predicted MoA of PRS-343.



Data cut-off: 23-Oct-19

Case Study #2: Fallopian Tube Cancer Patient with Partial Response Patient Profile, Treatment History and Treatment Outcome

Cohort 11b 8 mg/kg PRS-343 (Q2W)

- 59 year old female, initial diagnosis on September 19, 2017
- Fallopian tube carcinoma
- ERBB2 2+, MSI stable; TMB 4 Muts/Mb; PDL-1 status not known
- CD8 fold change in tumor. Not known as multiple posttreatment core biopsies did not contain cancer cells

Oncology Treatment History	Duration	Best Response	
Taxol/Carboplatin	October 2017 - November 2017	Stable Disease	
Taxotere/Carboplatin	December 2017 - May 2018	Stable Disease	
Doxil	October 2018 – February 2019	Progressive Disease	

Laciona	Looion Cito	Lesion Size (mm)				
Lesions	Lesion Site	Baseline	C2 Post-treatment	C4 Post-treatment	C6 Post-treatment	
Target 1	Liver – Dome of left lobe	18	10	12	8	
% Ch	nange from Baseline		-44%	-33%	-55%	



Data cut-off: 23-Oct-19

Case Study #3: Urothelial Cell Carcinoma Patient with Stable Disease Patient Profile, Treatment History and Treatment Outcome

Cohort 9 2.5 mg/kg PRS-343 (Q3W)

- 92 year old male, initial diagnosis in August 2015
- Urothelial cell carcinoma Stage 3
- HER2 FISH positive; MSS; TMB high16 mut/Mbp
- CD8 fold change in tumor: 5.1

Oncology Treatment History	Duration	Best Response	
Cisplatin +gemcitabine	September 2015 – September 2015	Toxicity	
Carboplatin + gemcitabine	October 2015 - December 2015	Progressive Disease	
Atezolizumab	December 2016 – June 2017	Stable Disease	
MEDI-0562 + durvalumab	August 2017 - May 2018	Stable Disease	

Lesions	Lesion Site	Lesion Size (mm)			
		Baseline	C2 Post-treatment	C4 Post-treatment	C6 Post-treatment
Target 1	Left para-aortic lymph node	27	24	24	25
Target 2	Right para-aortic lymph node	17	18	18	18
Target3	Paraesophageal lymph node	18	19	19	20
% C	hange from Baseline		-1.6%	-1.6%	1.6%



Data cut-off: 23-Oct-19

Baseline Characteristics (Combination Trial) All Subjects (n = 35)

Characteristic	n (%)
Age, Median (range)	59 (26-87)
Gender	
Female	19 (54%)
Male	16 (46%)
ECOG PS	
0	10 (29%)
1	25 (71%)
Prior Therapy Lines	
1	6 (17%)
2	5 (14%)
3	3 (9%)
4	6 (17%)
5+	15 (43%)

Primary Cancer Type	n (%)
Breast	12 (34%)
Gastroesophageal	6 (17%)
Colorectal	5 (14%)
Gallbladder/ Biliary	4 (11%)
Lung	3 (9%)
Gynecological	2 (6%)
Bladder	1 (3%)
Carcinoma of Unknown Primary	1 (3%)
Pancreatic	1 (3%)



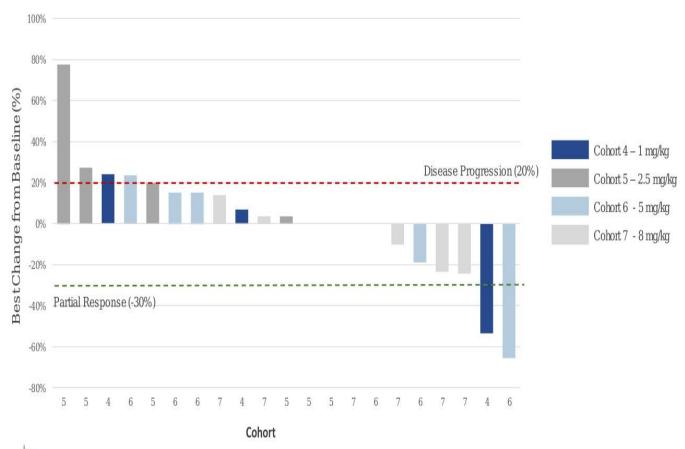
Treatment-Related Adverse Events (Combination Trial) Cohorts 4-7

TRAE	n =85	% Grade 3
Infusion related reaction	17 (20%)	,
Nausea and Vomiting	7 (9%)	
Diarrhea	6 (7%)	1 (1%)
Fatigue	6 (7%)	
Rash	4 (5%)	
Anemia	3 (4%)	1 (1%)
Chills	2 (2%)	
Decreased appetite	2 (2%)	
Dizziness	2 (2%)	
Dysgeusia	2 (2%)	
Malaise	2 (2%)	
Myalgia	2 (2%)	
Neutrophil count decreased	2 (2%)	1 (1%)
Platelet count decreased	2 (2%)	1 (1%)
Pyrexia	2 (2%)	
White blood cell count decreased	2 (2%)	1 (1%)

No Grade 4 or 5 PRS-343 Treatment-Related AEs



Best Response in Target Lesions (Combination Trial) Combination Study Cohorts 4-7 (n = 21)





Case Study #1: Breast Cancer Patient with Partial Response

Patient Profile and Treatment History

Cohort 4 1 mg/kg PRS-343 (Q3W) + atezolizumab 1200 mg

- 64 year old female, initial diagnosis October 16, 2000
- Stage 4 breast carcinoma
- ER/PR-; HER2 3+(IHC biopsy collected in J an 2010), FISH+
- PD-L1, MSI and TMB status not known
- CD8 fold change in tumor: 8.5

Oncology Treatment History	Duration	Best Response	
AC X4, tamoxifen (X1 yr), arimidex (X5 yrs)	2000-2006	Stable Disease	
Carboplatin/Taxotere then Taxotere/Herceptin then Xeloda/ Lapatinib then Herceptin/ Navelbine	May 2006 - September 2009	Complete Response	
Vinorelbine and Herceptin	February 2010 - May 2011	Unknown	
Trastuzumab/Lapatinib Ditosylate (Tykerb)	May 2011 – May 2012	Progressive Disease	
Trastuzumab/Gemzar	May 2012 – Feb 2013	Unknown	
ADT (TDM1, Kadcyla)	May 2013 – Jun 2015	Stable Disease	
Trastuzumab/Pertuzumab (Perjeta)	Sep 2017 – Dec 2017	Stable Disease	
ADT (TDM1, Kadcyla)	Dec 2017 – Jul 2018	Stable Disease	
Trastuzumab/Capecitabine (Xeloda)	Aug 2018 – Jan 2019	Stable Disease	



Case Study #1: Breast Cancer Patient with Partial Response Treatment Outcome

Ţ	Lasin Cha	Lesion Size (mm)					
Lesions	Lesion Site	Baseline	C2 Post-treatment	C4 Post-treatment	C6 Post-treatment	C8 Post-treatment	C12 Post-treatment
Target1	Sub-cranial lymph node	15	8	5	8	8	6
Target 2	Right neck lymph node	15	9	7	7	6	5
% Cha	nge from Baseline		-43%	-60%	-50%	-53%	-63%



Case Study #2: Breast Cancer Patient with Stable Disease Patient Profile, Treatment History and Treatment Outcome

Cohort 6 5 mg/kg PRS-343 (Q3W) + atezolizumab 1200 mg

- 53 year old male, initial diagnosis July 28, 2011
- Stage 4 invasive ductal breast carcinoma (metastatic to mediastinal lymph nodes, bones and lung)
- ER+/PR-, HER2- (IHC), FISH+(biopsycollected in March 2019)
- PD-L1, MSI and TMB status not known
- · CD8 fold change in tumor: 8

Oncology Treatment History	Duration	Best Response
Trastuzumab + Carboplatin + Docetaxel + Tamoxifen	September 2011 – July 2013	not known
Trastuzumab + Perjeta + Navelbine	August 2013 – January 2016	not known
TDM-1+Fulvestrant	November 2017 – March 2018	not known
Lapatinib +Capecitabine	March 2018 – March 2019	not known
Anastrozole +Ibrance	April 2019 – May 2019	not known

Lociono	Losion Cita	Lesion Size (mm)				
Lesions	esions Lesion Site	Baseline	C2 Post-treatment	C4 Post-treatment	C6 Post-treatment	
Target 1	Lymph node	16	18	15	13	
L % Cł	nange from Baseline		+13%	-6%	-19%	



Case Study #3: NSCLC Patient with Partial Response Patient Profile, Treatment History and Treatment Outcome

Cohort 6 5 mg/kg PRS-343 (Q3W) + atezolizumab 1200 mg

- 65 year old male, initial diagnosis Feb 6, 2018
- Stage 4 NSCLC squamous
- Foundation One HER2 amplification
- CD8 fold change in tumor. Results to be presented

Oncology Treatment History	Duration	Best Response
Carboplatin/paclitaxel + RT	March 2018 – April 2018	Partial Response
Atezolizumab	August 2018 – May 2019	Stable Disease (treatment ended upon disease progression)

Lesions	Lesion Site	Lesion Size (mm)		
		Baseline	C2 Post-treatment	C4 Post-treatment
Target 1	Lung	42	26	20
Target 2	Ling	16	0	0
% Char	ge from Baseline		-55%	-66%
Non-target 1	Lung	Present	Absent	Absent
Non-target 2	Ling	Present	Present	Absent



