# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

# FORM 8-K

## CURRENT REPORT

#### Pursuant to Section 13 or 15(d) of The Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): July 22, 2021

# **CORBUS PHARMACEUTICALS HOLDINGS, INC.**

(Exact name of registrant as specified in its charter)

**Delaware** (State or other jurisdiction of incorporation) **001-37348** (Commission File Number) **46-4348039** (IRS Employer Identification No.)

02062

(Zip Code)

500 River Ridge Drive, Norwood, MA

(Address of principal executive offices)

Registrant's telephone number, including area code: (617) 963-0100

Not Applicable

(Former name or former address, if changed since last report.)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instruction A.2. below):

□ 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-12)

□ Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

□ Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Securities registered pursuant to Section 12(b) of the Act:

Title of Each Class	Trading Symbol	Name of Each Exchange on Which Registered
Common Stock, par value \$0.0001 per share	CRBP	Nasdaq Global Market

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1 933 (17 CFR §230.405) or Rule 12b-2 of the Securities Exchange Act of 1934 (17 CFR §240.12b-2).

Emerging growth company  $\Box$ 

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

#### Item 8.01. Other Events.

Corbus Pharmaceuticals Holdings, Inc. is using the slides attached hereto as Exhibit 99.1 to this Current Report on Form 8-K in connection with management presentations to describe its business.

#### Item 9.01. Financial Statements and Exhibits.

(d) Exhibit No. Description	1
99.1 Investor Pr	resentation
104 Cover Page	e Interactive Data File (embedded within the Inline XBRL document)

#### SIGNATURES

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.

By: /s/ Yuval Cohen Name: Yuval Cohen Title: Chief Executive Officer



# **EXAMPLE 1 CONTRACT OPERATION OF STATEMENTS CONTRACT OPERATIONS CONTRACT OP**



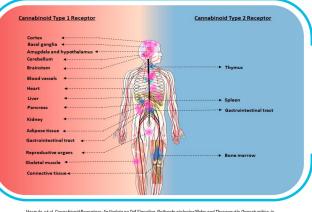
## **Expanding Our Therapeutic Focus** — CONTINUED FOCUS — +----- EXPANDED FOCUS -----> INFLAMMATION Expertise across all phases of Ð drug development METABOLISM IMMUNO-ONCOLOGY 8 Track record of executing complex global studies on time and on budget ¥ FIBROSIS Funded through Q1 2024 ENDOCANNABINOID SYSTEM BIOLOGY TGFB-INTEGRIN BIOLOGY

# A Diverse Pipeline with Multiple Shots on Goal

	Compound	Therapeutic Areas / Indications	Preclinical	Phase 1	Phase 2	Phase 3
inn		TARGETING THE ENDO	ANNABINOID SYSTEM			
	Lenabasum	Dermatomyositis* Lupus				
	CB1 Inverse Agonists	Metabolism				
	CB2 Agonists	Solid Tumors				
		TARGETING THE TOPS	ACTIVATING INTEGRINS			
-6-	Anti-αvβ8 mAb	Solid Tumors				
	Anti-ανβ6/ανβ8 mAb	Fibrosis				

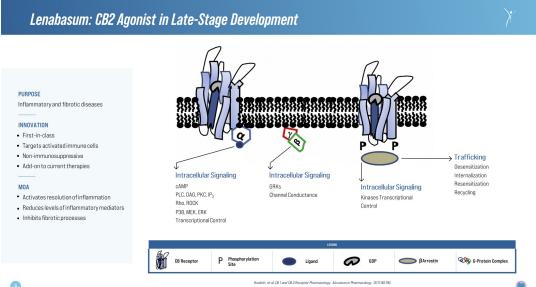






Haspula, et al. Cannabinoid Receptors: AnUpdate on Cell Signaling. Pathophysiological Roles and Therapeutic Opportunities in Neurological, Cardiovascular, and Inflammatory Diseases. International Journal of Molecular Sciences. 2020;215.



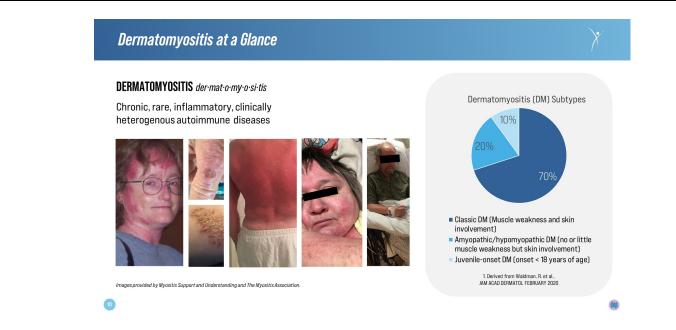


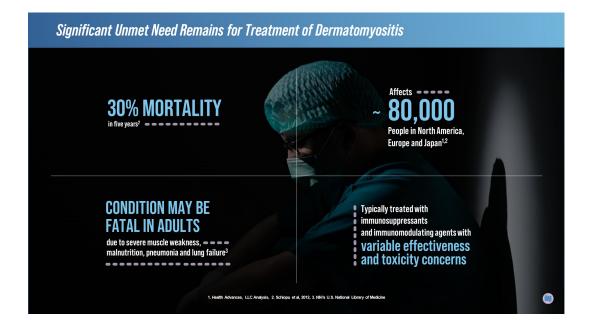
# Key Lenabasum Phase 2 and 3 Studies

Target (Program)	Phase	Number Dosed	Status
Dermatomyositis	3	175	<ul> <li>Primary efficacy endpoint (Total Improvement Score) not met</li> <li>Additional data analyses being completed and preparing for discussions with FDA</li> </ul>
SLE	2	102	•Ongoing, topline data expected second half of 2021
Systemic Sclerosis	3	363	Primary efficacy endpoint (ACR CRISS score) not met     FVC changes seen in sub-population in post-hoc analysis     Acceptable safety profile     Analyzing data on FVC in conjunction with dermatomyositis data on FV
Cystic Fibrosis	2b	525	Primary efficacy endpoint (pulmonary exacerbation rate) was not me     Acceptable safety profile     Not planning additional studies in CF

#### ACCEPTABLE SAFETY PROFILE IN STUDIES TO DATE, ~1,300 SUBJECTS HAVE RECEIVED LENABASUM

Most common adverse events related to lenabasum: Dizziness, headache, fatigue

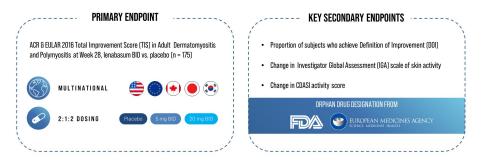




## Phase 3 DETERMINE Study Protocol

#### Double-blind, Randomized, Placebo-controlled study

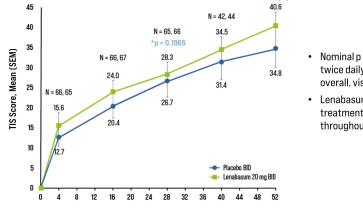
Trial in adults with active classic dermatomyositis or amyopathic/hypomyopathic dermatomyositis



The timing of the primary efficacy endpoint was changed from Week 52 to Week 28 following developments in competitive landscape with studies that were shorter than one year using the same efficacy endpoint as <u>D</u>ETER<u>MINE</u>.



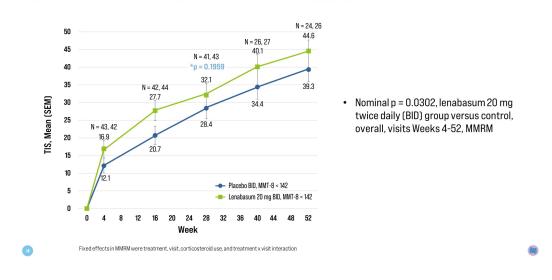
Phase 3 Study did not Meet Primary Endpoint of Total Improvement Score (TIS) at Week 28



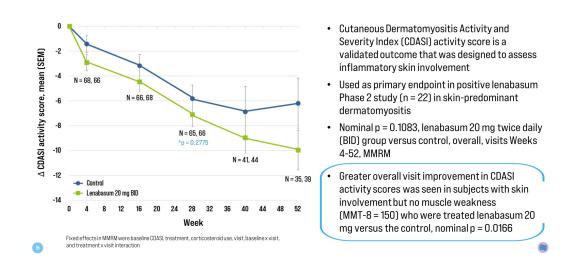
#### Nominal p = 0.0795, lenabasum 20 mg twice daily (BID) group versus control, overall, visits Weeks 4-52, MMRM

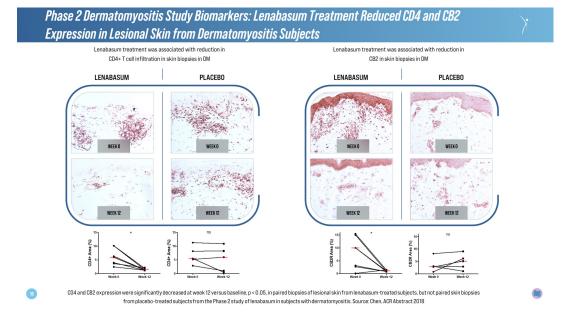
 Lenabasum 20 mg BID showed greater treatment effect than 5 mg BID throughout

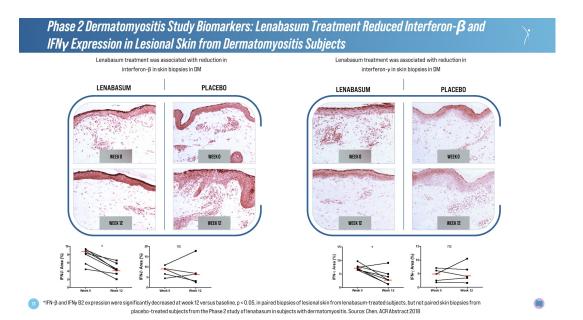
## Highest Improvement in TIS Seen in Lenabasum-Treated Subjects with Muscle Weakness (MMT-8 < 142)



Greater Improvement in CDASI Activity Scores Seen in Lenabasum Treated Subjects vs. Placebo

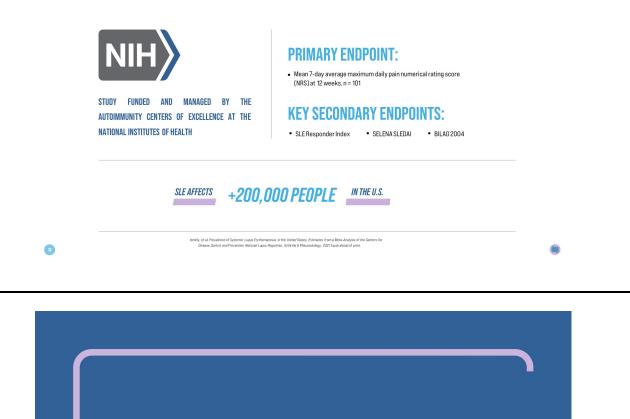




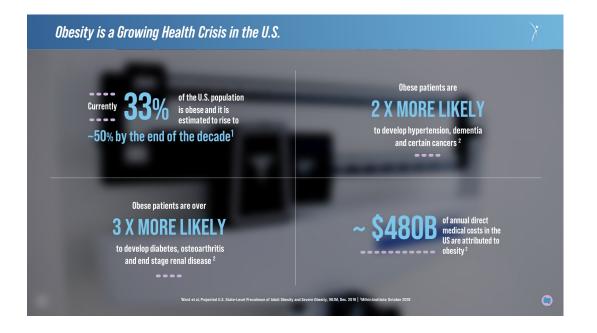


Competitive Lai	ndscape				
Treatment	Target & Delivery	Company	Phase	Subjects	Endpoint
mathem				00030013	Litupoint
Lenabasum	CB2 agonist (oral)	CORBUS	3 (Primary endpoint not met 2021)	175	TIS** at Week 28
octagamº 10%	Mg	Pfizer	Approved 2021 (Primary endpoint met)	94	Number of patients who had an increase of ≥20 points on t TIS at 16 weeks
PF-06823859	IFNB1 Fibroblast blocker (IV)	Pfizer	2	76	CDASI Activity Score, change from baseline activity at Weel
Hizentra Imme Cale Societa Iture 25. Lipit	Mg	CSL Behring Biotherapies for Life"	3	126	Responder Rate: TIS >=20 at week 25 and one prior visit (w or 21)
	CTLA-4 (IV/SC)	Bristol-Myers Squibb	3	150	Number of subjects who achieve DDI** at Week 24
	IL-12 & 23 (IV/SC)	Johnson-Johnson	3 (Japan only)	50	Percentage of Participants who achieve Minimal Improvem in TIS at Week 24
KZR-616	Selective Immuno-protenasome Inhibitor (SC)		2	24	Mean change in <b>TIS</b> at 16 weeks
Concentration Action Ac	IL-6 (IV)	Genentech	2 (Primary endpoint not met 2020)	36	Compare the Average TIS at Visits 2 Through 7 During the 6 month Treatment Period Between the Treatment and Place Arms [Time Frame: Week 4, 8, 12, 16, 20, and 24]

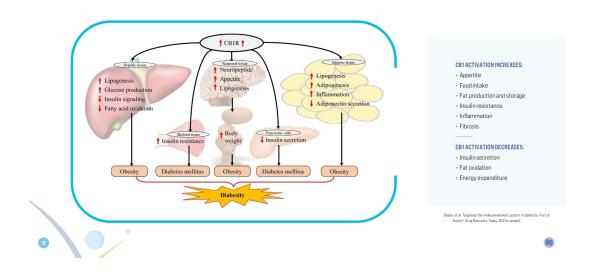
## Systemic Lupus Erythematosus (SLE): Topline Phase 2 Study Results Expected 2H 2021



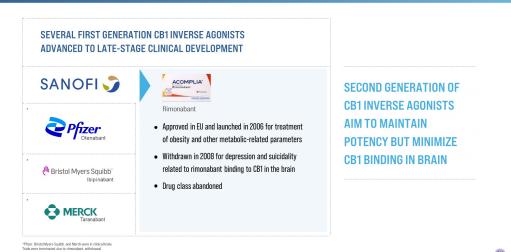
2ND GENERATION CB1 INVERSE AGONISTS FOR METABOLIC AND FIBROTIC DISEASES



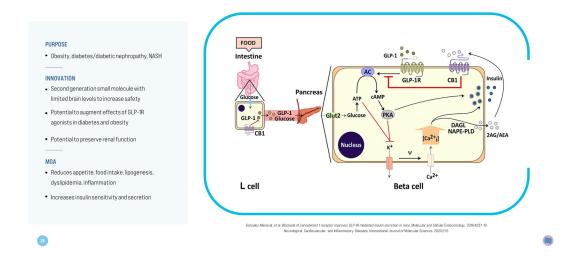
## CB1 Activation Contributes to "Diabesity"



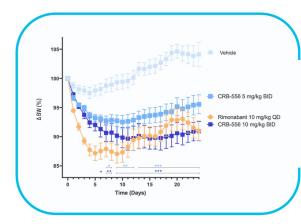
## CB1 is a Validated Target in Metabolic Diseases



# CB1 Inverse Agonist Program



DIO Model: CRB-556 Induces Weight Loss in Obese Mice



Mice received a high-fat diet for 14 weeks to induce obesity and glucose intolerance prior to testing, then continued to receive high-fat diet while receiving test compounds. Vehicle is CRB-556 control. Day 0 is start of dosing with test compounds. N = 10 mice per time point per dose of compound.

- CB1 inverse agonist CRB-556 induced dose-dependent weight loss in mice with diet-induced obesity
- Effect similar to rimonabant





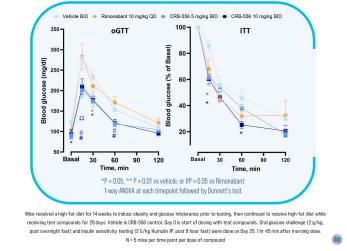
High fat diet

Chow diet Hig Note, mice pictured were not treated with CRB-556. Photos are courtesy of GVK-Aragen.

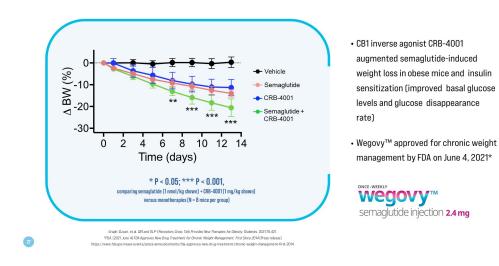
## X

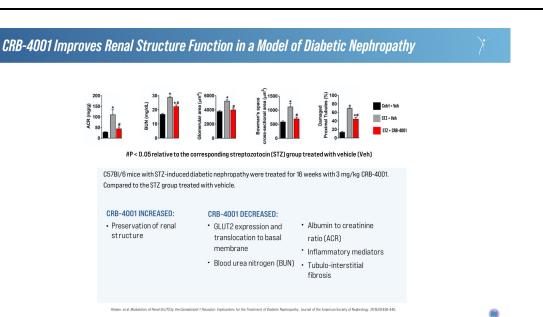
CRB-556 improved glucose tolerance and insulin sensitivity in mice with diet-induced obesity, similar to rimonabant





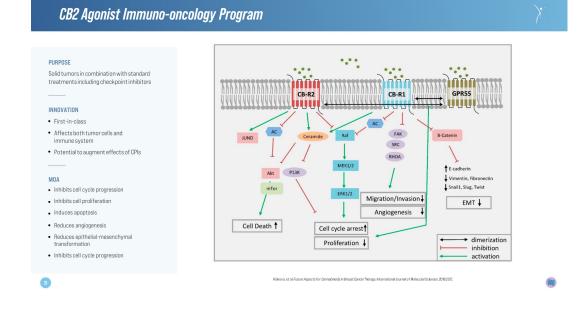
## CRB-4001 Augments Weight Loss Provided by Semaglutide in Obese Mice



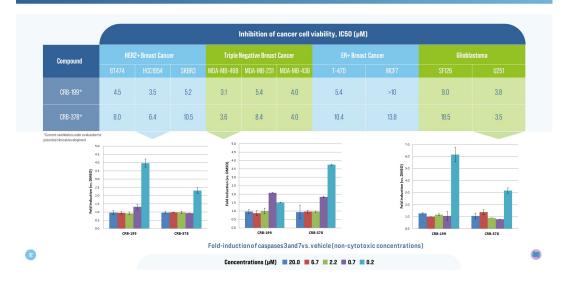




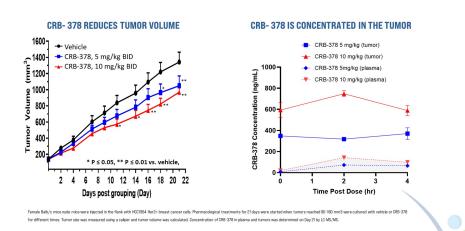




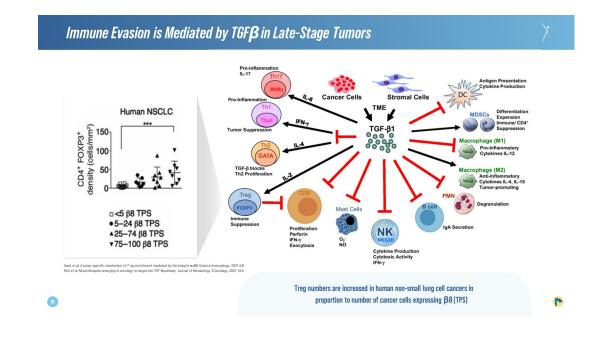
Corbus CB2 Agonists Reduce Cancer Cell Viability by Promoting Apoptosis



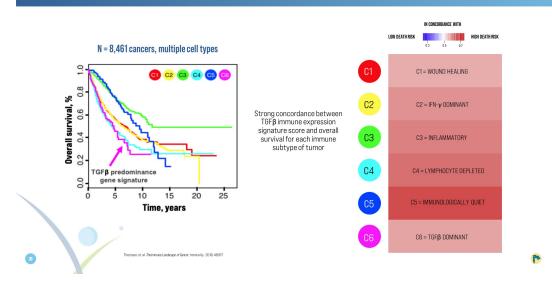
## CRB-378 Has Single Agent Activity in HCC1954 Her2+ Breast Cancer Xenograft Model



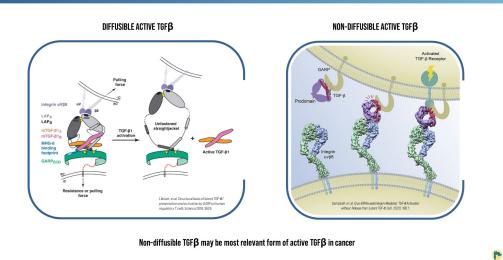




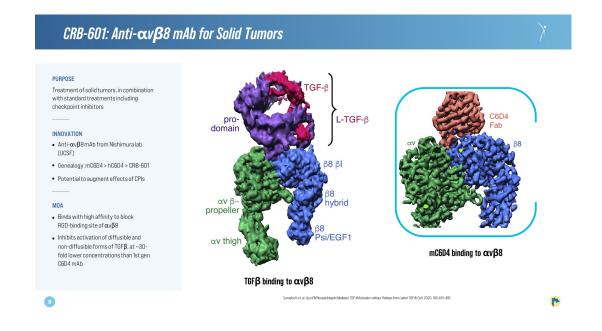
# Lower Survival in Patients with High TGFmeta Tumor Gene Signature



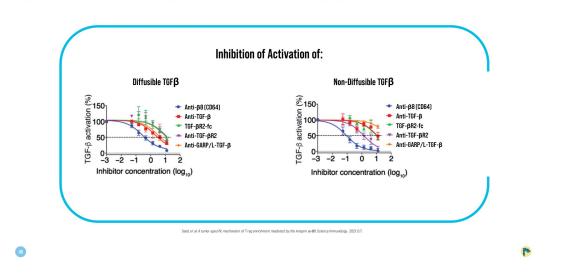
# $\alpha v \beta 8$ on Tumor Cells Activates TGF $\beta$



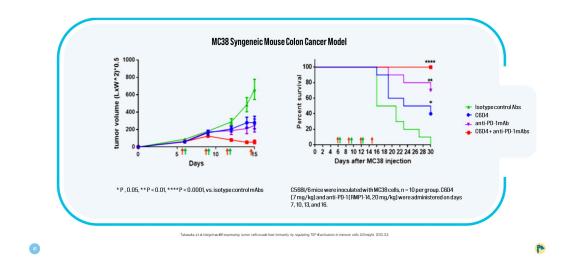
		ONCOLOG				
		PHASE (desiliged indication)	TARGET	PHASE (disclosed indication)		
	<b>P</b> fizer	Phase 1 Solid tumors	ανβ8	-	-	
	PLIANT	Preclinical	ανβ8	Phase 2 IPF & PSC	ανβ6/1	•
MONOCLONAL ANTIBODY		Preclinical	ανβ8	Preclinical	ανβ1	•
		Preclinical	ανβ8	Preclinical	ανβ8/6	Ŷ
	AstraZeneca	-	<u>_</u>	Phase 1 CKD	ανβ8	Y
		-		Phase 1 NASH	ανβ1	•
/	abbvie Morphic 😹	_	-	Preclinical	ανβ6	•



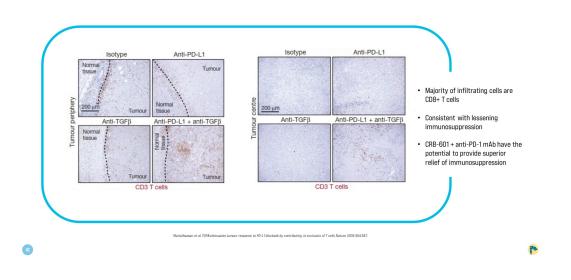
C6D4 (Precursor mAb Of CRB-601) Inhibits Activation of Both Diffusible and Non-Diffusible TGFmeta angle



# C6D4 (Precursor mAb Of CRB-601) Augments Activity of Anti-PD-1 mAb



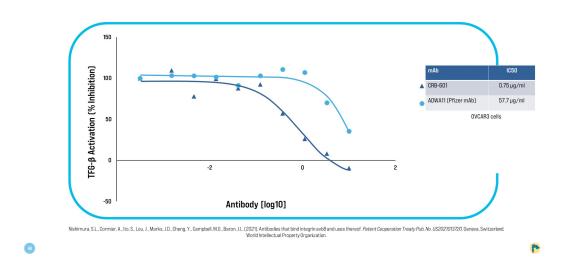
Blocking Both TGF $oldsymbol{eta}$  and PD-1 Augments T Cell Infiltration in Tumors



CRB-601 is Highly Effective at Inhibiting  $\alpha v \beta 8$ -mediated TGF $\beta$  Activation In Vitro 150 TFG-B activation [% inhibition] 1050 100 Antibody control N/A Anti-TGFβ mAb 21.85 µg/ml Precursor mAb of CRB-601 (C6D4) 0.55 µg/ml 50 A CRB-601 0.05 µg/ml TML cells 0 -2 -3 1 2 -1 0 [Antibody (µg/ml)] (log10)

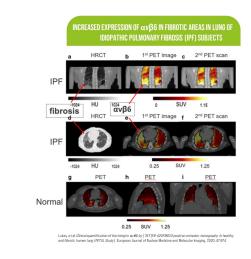
Nishimura, S.L., Cormier, A., Ito, S., Lou, J., Marks, J.D., Cheng, Y., Campbell, M.G., Baron, J.L. (2021) Antibodies that bind integrin av68 and uses thereof. Patent Cooperation Treaty Pub. No. US2021013720. Geneva, Switzerland. World intellectual Property Organization.

CRB-601 Appears to be Significantly More Effective In Vitro at Inhibiting TGFmeta than Equivalent Pfizer mAb



CRB-601 Has Single Agent Effect in Syngeneic Lung Cancer Tumor Animal Model Syngeneic model: Lewis lung carcinoma Tumor Weight **Tumor Volume** \*\* 3 Tumor Volume (mm<sup>3</sup>) Tumor Weight (g) 1 <sup>c</sup> 2000 1000 0 0 mAb Dose Escalation Cohorts mAb Dose Escalation Cohorts Control mAb @2 mg/kg
 CRB-601@2 mg/kg
 Control mAb @5 mg/kg
 CORB-601@5 mg/kg
 CRB-601@10 mg/kg
 CRB-601@10 mg/kg \* Student's unpaired t-test, p < 0.05 \*\* Student's unpaired t-test, p < 0.01 45 Nishimura, S.L., Cormier, A., Ito, S., Lou, J., Marks, J.D., Cheng, Y., Campbell, M.G., Baron, J.L. (2021). Antibodies that bind integrin avb8 and uses thereof. Patent Cooper World Intelliectual Property Organization. ration Treaty Pub. No. US2021013720. Geneva, Switzerland P

# CRB-602: Anti- $\alpha v \beta 6/8$ mAb for Fibrosis and Cancer



- Licensed from by Panorama Research Inc.
- +  $\alpha\nu\beta6$  integrin also activates TGF $\beta$
- αvβ6 is expressed in high levels on tumors of epithelial origin (carcinomas)
- +  $\alpha\nu\beta6$  is also expressed on epithelial cells in fibrotic diseases and thought to play an important role in lung, liver, biliary, and kidney . fibrosis
- $\alpha v \beta 6$  is more highly expressed in fibrotic areas in lungs of IPF subject than in nonfibrotic areas or normal lungs
- Antibody that targets both  $\alpha\nu\beta6$  and  $\alpha\nu\beta8$ may be useful in treatment of certain carcinomas
- Corbus anti- $\alpha v \beta 6/8$  mAb will be tested in animal models of cancer and fibrosis, with estimated Phase 1 start by end of 2022

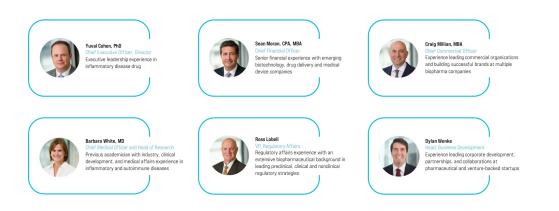
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# A Team with a Proven Record of Execution





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## An Experienced and Engaged Board of Directors Avery W. (Chip) Catlin Amb. Alan Holmer Ret. Yuval Cohen, PhD P Chief Executive Officer. Director More than 13 years of executive leadership experience in inflammatory disease drug development Director More than 25 years of senior financial leadership experience in life science companies; Former CFO and Secretary of Celldex Therapeutics Chairman of the Board More than two decades of public service in Washington, D.C. including Special Envoy to China; Former CEO of PhRMA **Rachelle Jacques** Pete Salzmann, MD, MBA John K. Jenkins, MD Director More than 25-year professional career. experience in U.S. and global biopharmaceutical commercial leadership, including multiple high-profile product launches in rare diseases; CEO of Enzyvant Therapeutics Director 20 years of industry experience and currently serves as Chief Executive Officer of Immunovant (NASUAC: IMVT), a biopharmaceutical company focused on developing therapies for patients with autoimmune diseases Director Distinguished 25-year career serving at the U.S. FDA, including 15 years of senior leadership in CDER and OND



# **RESOLVE-1** Phase 3 in Systemic Sclerosis

# Largest ever study in diffuse cutaneous systemic sclerosis (n=365, 52-weeks, 76 global sites)

First in a group of studies to allow patients to remain on background immunosuppressant therapy (IST)

#### RESULTS

Study did not meet primary endpoint

#### **KEY LEARNINGS**

**POST-HOC ANALYSES** 

Subjects treated with lenabasum 20 mg BID added to established immunosuppressant therapies

(IST) had stable FVC % predicted

over 1 year

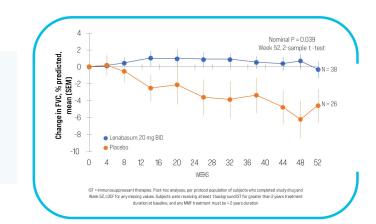
Under-appreciated benefit from IST (especially in newly diagnosed patients) led to much higher improvement in the control group than anticipated

PRIMARY EFFICACY ENDPOINT: MEDIAN ACR CRISS SCORES AT WEEK 52						
Visit 11 (Week 52)	Lenabasum 20 mg BID • N = 120	Lenabasum 5 mg BID • N = 120	Placebo N = 123			
n	100	113	115			
Mean (SD)	0.598 (0.432)	0.575 (0.423)	0.636 (0.422)			
Median (Q1, Q3)	0.888 (0.061, 0.997)	0.827 (0.070, 0.988)	0.887 (0.071, 0.999)			
p-value (Ranked Score, MMRM)	0.497	0.349	-			

There were also no significant differences among treatment groups for the secondary efficacy outcomes.

mITT population, primary efficacy analysis. WMRW with imputed values for missing core items, exce LODF for core items missing because of CDVID-19. NEXT STEPS: PREPARING THE RESOLVE-1 STUDY DATA FOR PUBLICATION AND WILL DECIDE ON THE NEXT STEPS In the development process pending the outcome of the determine study.

## PHASE 3 · Subjects Treated With Lenabasum 20 mg BID Added to Established IST (> 2 Year Duration) Had Stable FVC % Predicted



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