

Forward Looking Statement

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Building The Next Generation Biotechnology Company

Immunology Focus

Disruptive research and development engine focused on the disease areas of immunology, inflammation and oncology, with 4 assets in clinical development and multiple preclinical programs underway

Diversified Pipeline

• 5 active clinical trials and multiple data readouts over the next 18 months

World-Class Talent

Deeply experienced leadership team with proven track record of developing innovative clinical assets



Robust Pipeline with Five Active Clinical Trials

PROGRAM	CLASS	INDICATION	RESEARCH	PRE- CLINICAL	PHASE 1	PHASE 2	PHASE 3	RIGHTS
GB001	(Route of Admin.) DP2 Antagonist (Oral)	Moderate-to-Severe Eosinophilic Asthma	Phase 2b Ongoing	– LEDA Study		LEDASTUDY		Worldwide (except Japan)
GB001	DP2 Antagonist (Oral)	Chronic Rhinosinusitis (with and without nasal polyps)	Phase 2 Ongoing	– TITAN Study	† TITAN STUDY			Worldwide (except Japan)
GB001	DP2 Antagonist (Oral)	Chronic Spontaneous Urticaria	Phase 2 Planned					Worldwide (except Japan)
GB002	PDGFR Inhibitor	Pulmonary Arterial Hypertension	Phase 1b Sites Init Phase 2 Planned	iated				Worldwide
GBoo4	HIF-1α Stabilizer (Oral)	Inflammatory Bowel Disease	Phase 1b Ongoing					Worldwide
GB1275	CD11b Modulator (Oral)	Oncology, Solid Tumors	Phase 1/2 Ongoing	9				Worldwide



GB001

DP2 Antagonist

Asthma and Other Allergic Conditions, including Chronic Rhinosinusitis (CRS) and Chronic Spontaneous Urticaria (CSU)

GB001: Oral Therapy with Potential to Disrupt Treatment Paradigms in Allergic and Inflammatory Diseases

Product Description

- Oral, once-a-day, DP2 antagonist in development for the treatment of moderate-to-severe eosinophilic asthma, chronic rhinosinusitis (CRS) and chronic spontaneous urticaria (CSU)
- Target validation from Teijin's GB001 Phase 2 study in Japanese asthmatics
- Anti-inflammatory effect comparable to certain biologics with potential to be used earlier in treatment
- 409 patients have received at least 1 dose of GB001 with no clinically significant safety findings(1)
- Patent protection to 2031⁽²⁾

INDICATION	RESEARCH	PRE-CLINICAL	PHASE 1	PHASE 2	PHASE 3	Next Catalyst
Moderate-to-Severe Eosinophilic Asthma	Phase 2b Ongoing — L	EDA Study		LEDASTUDY		Phase 2b Interim Analysis (1H 2020)
Chronic Rhinosinusitis (with and without nasal polyps)	Phase 2 Undoing - III AN Study			† TITAN STUDY		Phase 2 Topline Results (2H 2020)
Chronic Spontaneous Urticaria	Phase 2 Planned					Phase 2 Initiation (1H 2020)



¹⁾ As of December 21st 2018



²⁾ Includes assumption of maximum 5 years of patent term extension. Corresponding patent(s) and patent application(s) with compound-specific claims.

Eosinophils Play a Critical Role in Type 2 Asthma

There are ~2.4mm – 3mm uncontrolled GINA 4/5 asthmatics in the US, 1.2 – 1.5mm of which are high Eos.

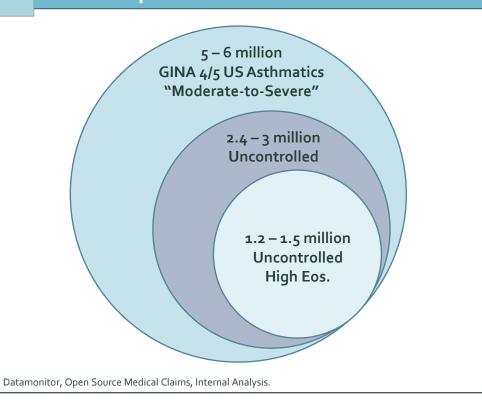
Eosinophils are Key Cells Mediating Inflammation in Asthma

- Asthma is typically characterized by airway inflammation and airway hyperresponsiveness
- The DP2 receptor is expressed by the main cells involved in Type 2 asthma inflammation (eosinophils, basophils, ILC2, and Th2 cells)
- The resulting eosinophilic inflammation contributes to the presence and persistence of asthma symptoms

Symptoms

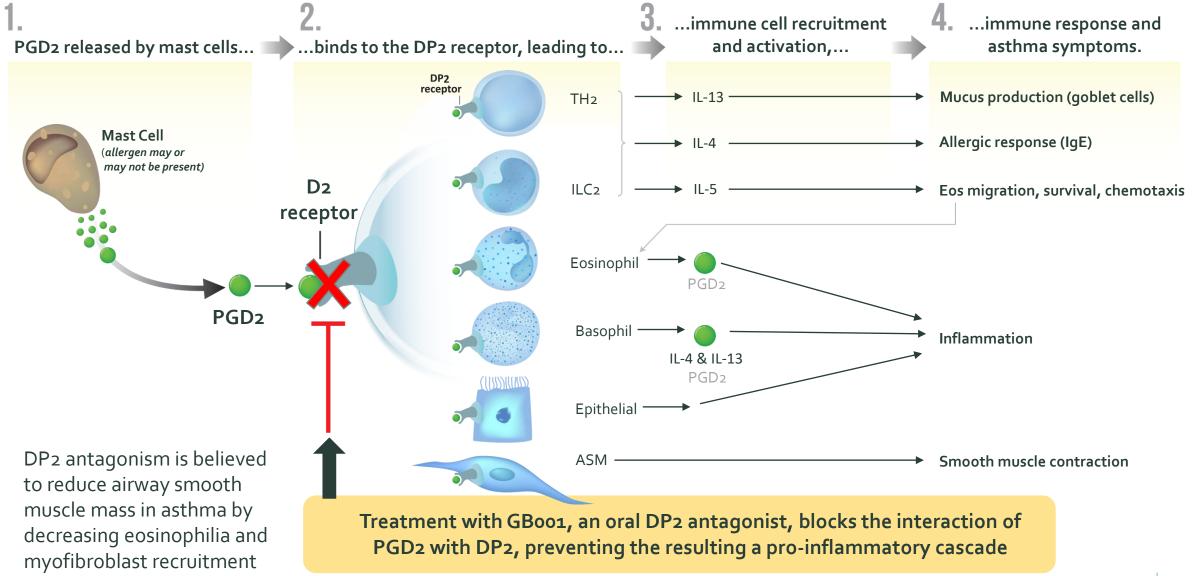
- Asthma exacerbation ("asthma attack")
- Blocked airways
- Coughing
- Tightness in the chest
- Shortness of breath or hard time breathing
- Wheezing

Asthmatics with Elevated Eosinophils are Still Underserved





Role and Biology of the PGD2/DP2 Pathway in Type 2 Inflammation



Sources: Domingo, Respiratory Research 2018; Singh, Clinical Pharmacology: Advances and Applications 2017; Farne, Expert Opinion on Emerging Drugs 2016; Stone, J Allergy Clin Immunol 2010; Saunders, Sci Transl. Med. 2019.



GBoo1 Has Demonstrated an Effect on FeNO

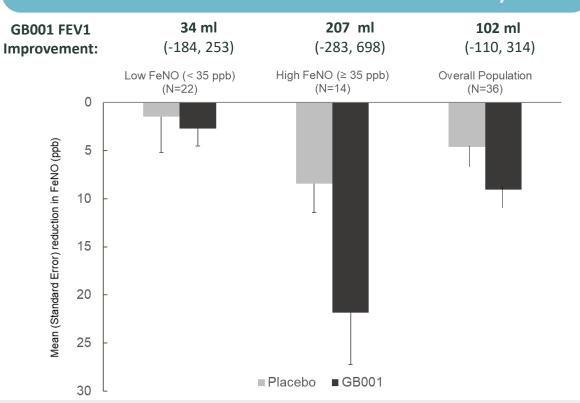
Reduction of Exhaled Nitric Oxide by the DP2 antagonist GB001

Results from a post-hoc analysis evaluating Fractional exhaled Nitric Oxide (FeNO) as marker and outcome following administration of GB001 or placebo over 28 days

Findings

- In a retrospective analysis, GBoo1 resulted in rapid and greater improvements in lung function relative to placebo in subjects with high FeNO and blood eosinophils⁽¹⁾
- Marked difference in the magnitude of FeNO reduction and the treatment effect of GBoo1 relative to placebo in subjects with high (≥35 ppb) versus low (<35 ppb) baseline FeNO
- The FeNO changes from baseline are comparable to the changes observed with Dupilumab in Phase 2 and 3 studies⁽²⁾⁽³⁾
- FeNO in addition to blood eosinophils may be a useful marker for treatment response to GBoo1

Mean Reduction in FENO and FEV1 at Day 28



A Phase 2 Study to Evaluate the Safety, Efficacy and Pharmacokinetics of DP2 Antagonist GB001 and to Explore Biomarkers of Airway Inflammation in Mild to Moderate Asthma.(1)



¹⁾ Ortega H et al Clin Exp Allergy (in press)

²⁾ Wenzel, Sally et al. "Dupilumab in Persistent Asthma with Elevated Eosinophil Levels." NEJM 368 (2013): 2455 - 2466.

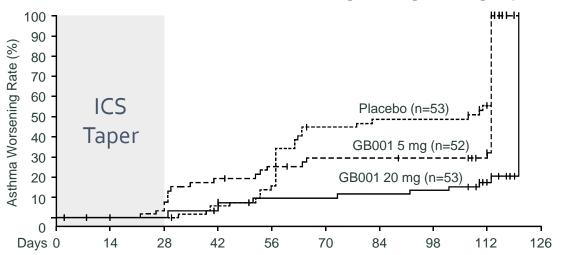
 ²⁾ Wellzel, Sany et al. Deploifinable in resistent Astinia with Elevated Cosinophia Levels. Net Jiv 300 (2013): 2455 – 2400.
 3) Castro, Mario et al. "Duppliumab Efficacy and Safety in Moderate-to-Severe Uncontrolled Asthma." NEJM 378 (2018): 2486 – 2496.
 FeNO = fractional exhaled nitric oxide; ppb = parts per billion.

Japanese Phase 2 Study Demonstrated Statistically Significant Improvements in Time-to-First Asthma Worsening

Both doses of GBoo1 met the primary endpoint of change in morning peak expiratory flow with statistical significance vs placebo

Overall Population

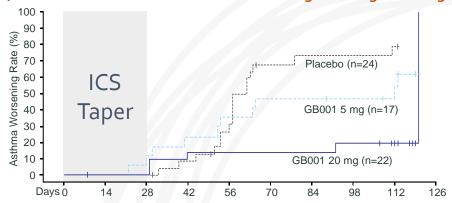
71% reduction in the risk of asthma worsening for 20mg GB0001 group



	pbo vs 5 mg	pbo vs 20 mg
p-value (log-rank test)	0.088	P<0.001
Hazard Ratio (95% CI)*	0.59 (0.32, 1.07)	0.29 (0.14, 0.58)

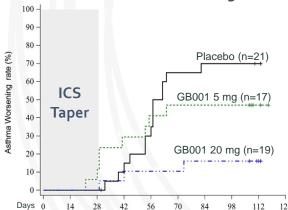
High Eosinophil Population (≥300 μL)

84% reduction in the risk of asthma worsening for 20mg GB0001 group



High FeNO Population (≥25 ppb)

84% reduction in the risk of asthma worsening for 20mg GB0001 group



pbo = placebo.

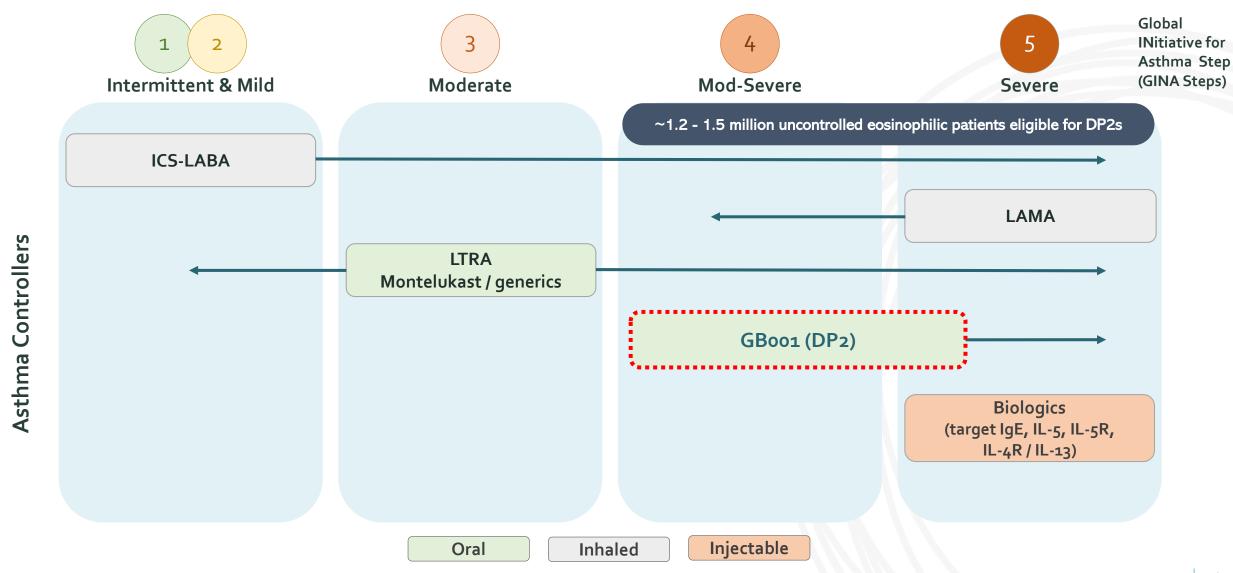
*Cox Regression.

Definition of asthma worsening

- For 2 or more consecutive days, AM PEF (morning peak expiratory flow) ≤ 0.75 x mean level of AM PEF for the last 7 days of Run-in Period
- FEV1 (forced expiratory volume in one second) \leq 0.8 x at the randomization time point
- For 2 or more consecutive days, using SABA (short-acting beta agonist) at a dose of 5 puffs/day
- Asthma Control Questionnaire (ACQ) ≥ ACQ at the randomization time point + 0.5
- Having had asthma exacerbation requiring administration of oral corticosteroids or step 2 or higher treatments of Japan Guidelines 2012 steps of asthma attacks

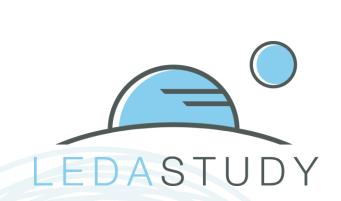
Source: Asano K, et al. Phase 2 study results of DP2-antagonist GB001 on asthma worsening and other asthma control markers. Presented at: (ACAAI) Scientific Meeting 2019; 2019 Nov 7 - 11; Houston.

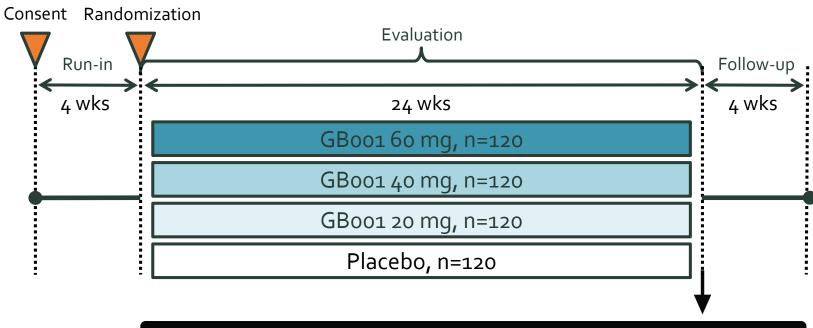
Potential for Market Asthma Positioning Prior to Biologics



LEDA Study: Phase 2b Study Design Allows for Efficient Transition to Phase 3

A Phase 2b, randomized, double-blind, placebo-controlled, dose-ranging, multi-center study to evaluate the efficacy and safety of GB001 as maintenance therapy in adult subjects with moderate-to-severe asthma





Interim analysis after ~320 subjects who complete week 24 (expected in 1H 2020)

Patient Population	480 adult modto-severe eosinophilic asthmatics (Type 2 phenotype: blood eosinophil ≥ 250 cells/μL)
Endpoints	Primary: Reduction in asthma worsening Secondary: FEV1, asthma control, asthma quality of life

Chronic Rhinosinusitis (CRS) is a Heterogeneous, Persistent Inflammatory Condition

CRS Affects 10 – 15% of the population (>25 million US adults)

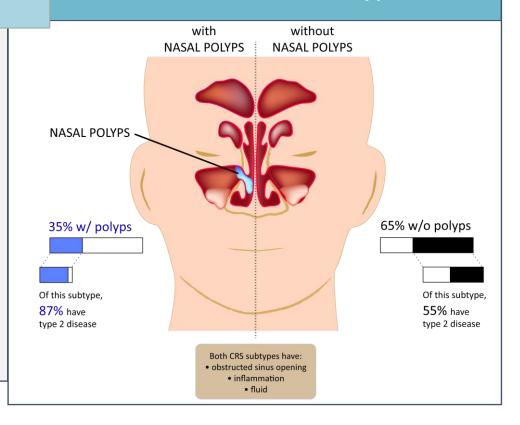
Eosinophilic Inflammation is a Major Pathologic Hallmark of CRS

- Eosinophilic CRS is associated with severe disease resistant to medical and surgical interventions
 - Accumulation of eosinophils, release of cytokines, and mucus secretion implicated in disease pathogenesis
- Expression of PGD₂ is increased and an important contributing factor to Type 2 inflammation in Eosinophilic CRS
 - Activated eosinophils secrete tissuedamaging granules and represent an ideal target for selective inhibition

Symptoms

- Difficulty breathing
- Facial pain / pressure
- Chronic headaches
- Loss of smell, taste
- Mucus production
- Nasal discharge
- Nasal infections
- Chronic fatigue

CRS Presents as Two Subtypes



Notes: Small subset of 8-12% is allergic fungal disease.

Sources: CDC

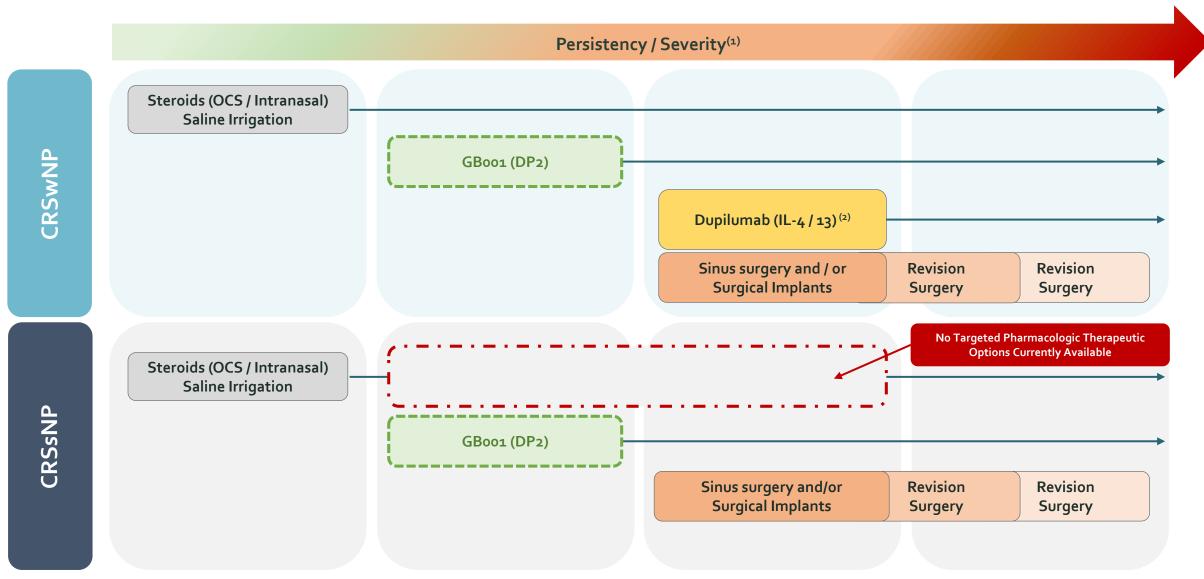
Meltzer, Eli. Update on Sinusitis Management. Presented at: ACAAI 2018 Annual Scientific Meeting; 2018 Nov 7 - 11; Houston. Hamilos, Daniel "Chronic rhinosinusitis: Epidemiology and medical management." Journal of Allergy and Clinical Immunology 128, no. 4 (2011): 693 – 707.

Hastan, Deniz et al. "Chronic rhinosinusitis in Europe--an underestimated disease. A GA²LEN study." Allergy 66, no. 9 (2011): 1216 – 1223.

Hirsch, Annemarie et al. "Nasal and sinus symptoms and chronic rhinosinusitis in a population-based sample." Allergy 72, no. 2 (2017): 274 – 281.



GBoo1 is Positioned to be the Only Oral Therapy Available for Severe CRS Patients With and Without Nasal Polyps



Excludes antifungals and antibiotics for infectious disease.

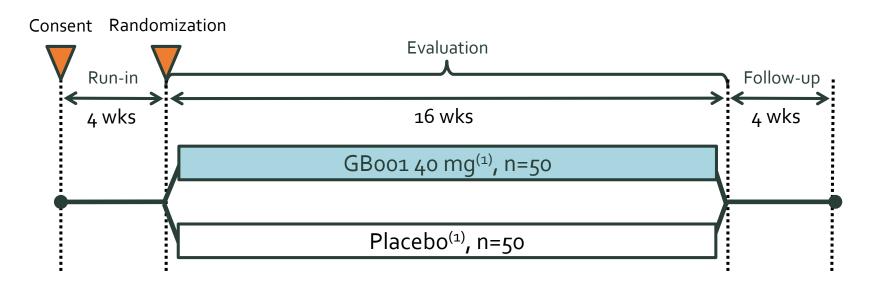
NP = nasal polyps; OCS = oral corticosteroids.

²⁾ Multiple biologics in late stage development, including omalizumab (anti-IgE), mepolizumab (anti-IL-5), and benralizumab (anti-IL5R).

TITAN Study: Phase 2 Proof of Concept in CRS With and Without Nasal Polyps

A Phase 2, signal seeking, randomized, double-blind, placebo-controlled, multi-center study to evaluate the efficacy and safety of GBoo1 in combination with intra-nasal steroids in adult patients with CRS





Patient Population	\sim 64 adult patients with CRS with nasal polyps (CRSwNP); \sim 36 adult patients with CRS without polyps (CRSsNP)
Endpoint	Primary: SNOT-22 (Sino-Nasal Outcome Test-22) Secondary: Opacification of sinuses as measured by CT scan, Nasal Polyposis Score (in subset with NP), Nasal Congestion, Incidence of TEAEs, Labs, ECG, vital signs



GB002

PDGF Receptor Kinase Inhibitor

Pulmonary Arterial Hypertension (PAH)

GBoo2: Potential To Be the First Treatment for PAH with Disease-Modifying Effects



Product Description

- Selective, inhaled PDGF receptor kinase inhibitor to address the disease pathogenesis of PAH
- Kinase inhibition was shown to be clinically significant in Phase 3 PAH trial of imatinib (Gleevec),
 with systemic toxicities (IMPRES Study)
- GBoo2 formulation and administration via dry powder inhaler (DPI) designed to reach areas of the deep lung; DPI device is small, convenient and currently used in commercial products
- Inhaled GB002 deposits at site of disease due to proximity of terminal bronchiole and alveolar space to affected pulmonary arteries
- Patent protection to 2034⁽¹⁾; Orphan Drug Designation from FDA and EMA

INDICATION	RESEARCH	PRE-CLINICAL	PHASE 1	PHASE 2	PHASE 3	Next Catalysts
Pulmonary Arterial	Phase 1b Sites Initiate	ed				Phase 1b Results (1H 2020)
Hypertension	Phase 2 Planned					Phase 2 Initiation (1H 2020)



PAH is an Orphan Disease With High Unmet Need and Significant Disease Burden



PAH affects ~53,000 patients in the United States

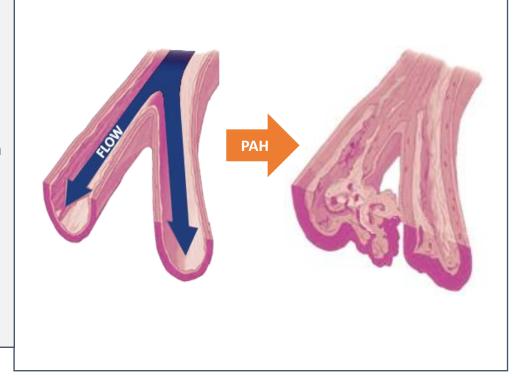
Unabated Cellular Proliferation with Limited Treatment Options

- PAH underlying pathology driven by abnormal cell proliferation related to lung small blood vessels
- Activated PDGF receptor induces cellular proliferation and is known to be upregulated in PAH
- Kinase inhibition was shown to have clinically significant effects in Phase 3 PAH trial of imatinib (Gleevec), with systemic toxicities
- Current therapies function primarily as vasodilators and do not address the abnormal cell proliferation underlying PAH

Symptoms

- Dyspnea
- Fatigue
- Dizziness
- Chest pressure / pain
- Edema in ankles, legs, abdomen
- Cyanosis
- Heart palpitations

PAH Results in Vascular Remodeling

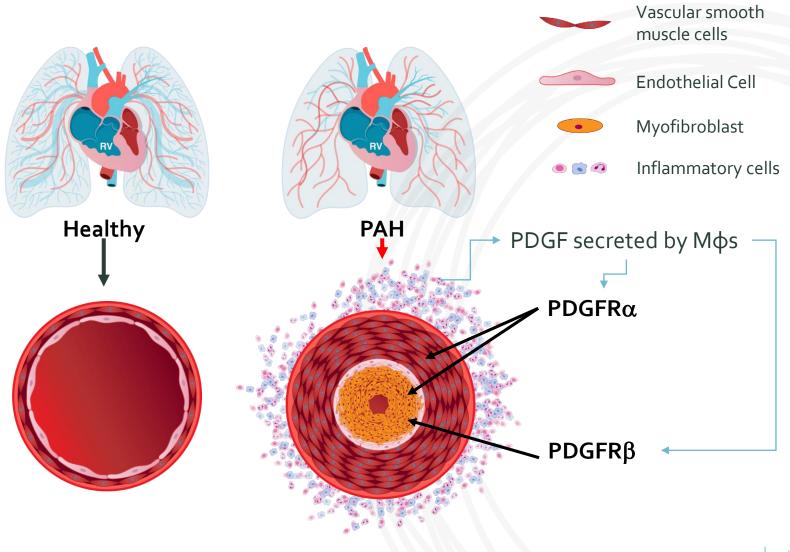




PDGFR Activation Plays a Role in the Pathological Remodeling of Lung Blood Vessels in PAH

C.B.O.

- Aberrant PDGFR signaling drives overgrowth of smooth muscle cells and fibroblasts
- Obstructed pulmonary arteries increase pressure, leading to right ventricle thickening and right heart failure
- PDGFR inhibition can normalize BMPR2 expression in arterial smooth muscle cells

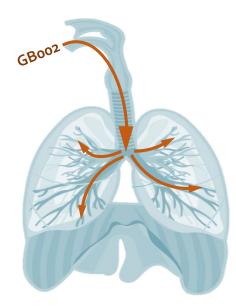


GBoo2 Administration via Dry Powder Inhaler is Convenient and Delivers Drug Directly to the Site of Disease



Dry Powder Inhaler from Plastiape





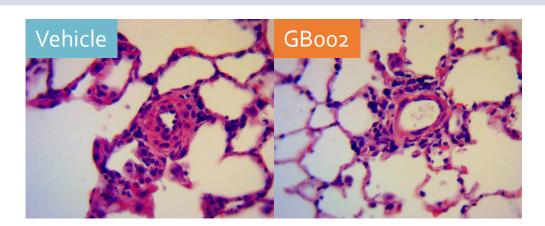
- GBoo2 formulation and administration via dry powder inhaler (DPI) designed to reach areas of the deep lung
- Inhaled GBoo2 deposits at site of disease due to proximity of terminal bronchiole and alveolar space to affected pulmonary arteries
- Results in higher ratio of lung to systemic exposure, potentially providing for an improved therapeutic index
- DPI device is small, convenient and currently used in commercial products

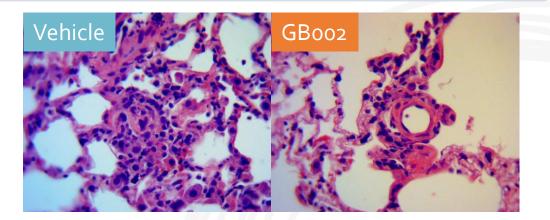


GBoo2 Reverses Vascular Remodeling Through Inhibition of PDGFR in Animal Models of PAH

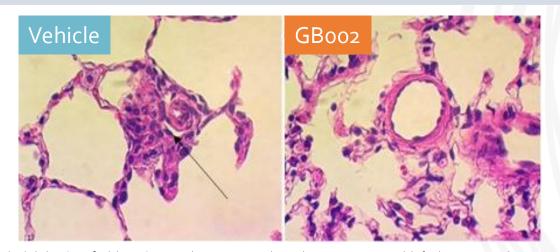


GB002 Reverses Remodeled Pulmonary Arterioles in Rat Monocrotaline Plus Pneumonectomy Model(1)





GB002 Restores Healthy Blood Vessel Architecture in Rat SU5416 / Hypoxia PAH Model⁽²⁾



¹⁾ Sitapara, Ravikumar et al. In Vivo Efficacy of a Novel, Inhaled PDGFRα/β Inhibitor, GBoo2, in the Rat Monocrotaline and Pneumonectomy Model of Pulmonary Arterial Hypertension. Presented at: American Heart Association Scientific Sessions 2019; 2019 Nov 16 - 18; Philadelphia.

²⁾ Galkin, Anna et al. GBoo2, A Novel, Inhaled PDGFR Kinase Inhibitor, Demonstrates Efficacy in the SU5416 Hypoxia Rat Model of Pulmonary Arterial Hypertension. Presented at: American Heart Association Scientific Sessions 2019; 2019 Nov 16 - 18; Philadelphia.

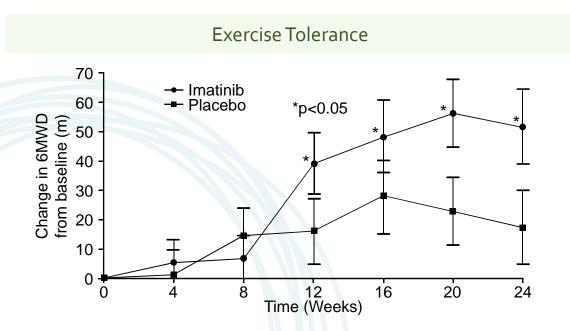


Imatinib Demonstrated Clinical Proof of Principle for Targeting PDGF in PAH in the Phase 3 IMPRES Trial

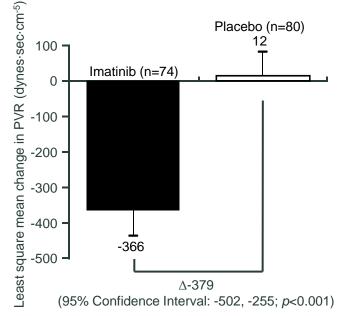


Imatinib Mesylate as Add-on Therapy For Pulmonary Arterial Hypertension: Results of the Randomized IMPRES Study

- Imatinib mesylate, as add-on therapy in PAH patients who remain inadequately treated on at least two PAH-specific drugs, improves exercise capacity and hemodynamics
- Of 202 patients enrolled, 41% had failed three classes of therapies, ~70% were on prostacyclins
- Serious Adverse Events: 44% imatinib vs 30% placebo, including 8 subdural hematomas and high drop-out rates
- Discontinuations (overall): 33% imatinib vs 18% placebo



Pulmonary Vascular Resistance (PVR)



Inhaled GB002 Outperformed Imatinib in Head-to-Head Pre-Clinical Studies



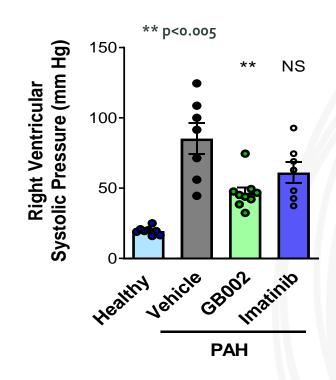
GB002 is a Potent PDGFRα/β Inhibitor with Limited Systemic Exposures

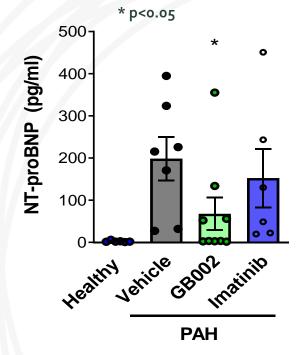
GBoo2 Displayed More Pronounced Efficacy Than Imatinib in the Established rat SU5416 / Hypoxia PAH Model

	GB002	Imatinib
PDGFRα IC ₅₀ (nM)	7	12
PDGFRβ IC ₅₀ (nM)	6	74
Lung Exposure	++++	+++
Systemic Exposure	+	++

Imatinib in vivo exposures matched to published clinical exposures at the 400 mg dose

GBoo2 is a new chemical entity



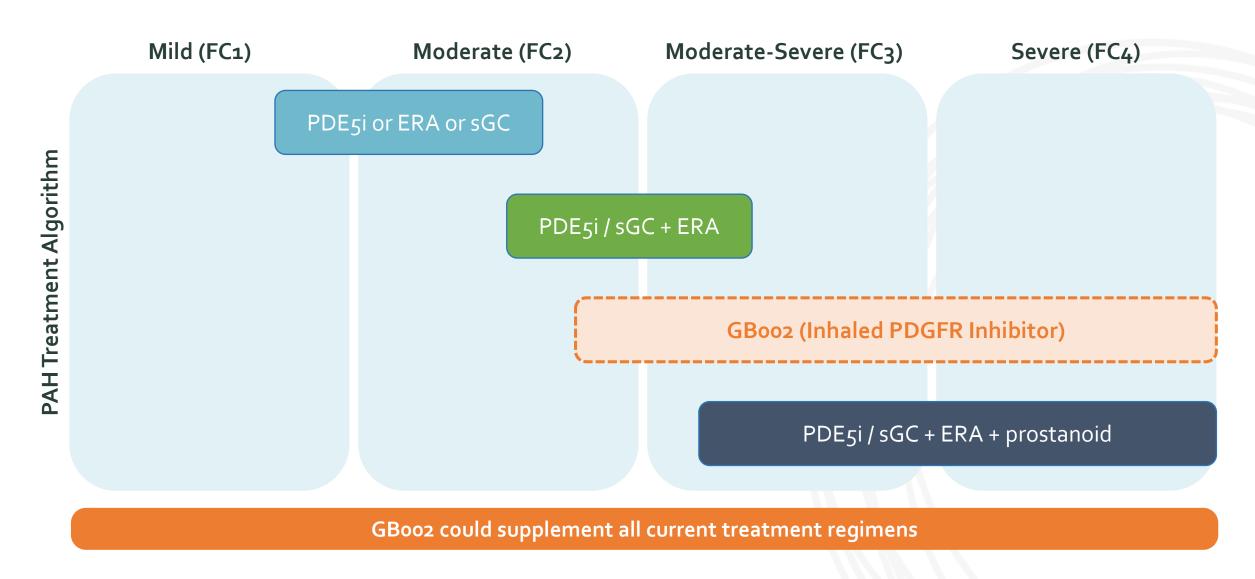


NT-proBNP: peripheral PAH prognostic biomarker



The PAH Treatment Paradigm Increasingly Supports Addition of Therapies as Severity and Functional Class Increase



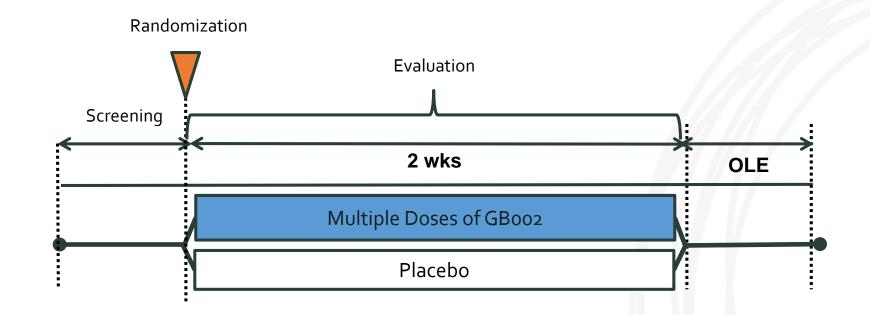




CBOO

Active Phase 1b Study in Pulmonary Arterial Hypertension

A Phase 1b, signal seeking, placebo-controlled, dose-ranging study to evaluate the safety and pharmacokinetic profile of GB002 in adult patients with PAH



Patient Population	Adult PAH patients
Endpoints	AE Profile, changes in safety lab values, PK parameters, NTproBNP, Right Ventricular Ejection Fraction (based on ECHO)



GB004

Hypoxia Inducible Factor 1^{α} (HIF- 1α) Stabilizer

Inflammatory Bowel Disease (IBD), including Ulcerative Colitis (UC) and Crohn's Disease (CD)

GBoo4: Gut-targeted, HIF Stabilizer with Potential to Deliver Superior Efficacy in IBD



Product Description

- Oral, small molecule, gut-targeted, prolyl hydroxylase inhibitor that stabilizes HIF-1 α for the treatment of inflammatory bowel disease (IBD)
- HIF-1 α stabilization restores epithelial barrier function and exerts innate immunomodulatory effects, which is expected to reduce inflammation and enhance mucosal healing in human IBD
- Designed leveraging the Nobel Prize winning science studying the impact of oxygen regulation
- Potential for use as mono or combo therapy for IBD
- Patent protection to 2035⁽¹⁾

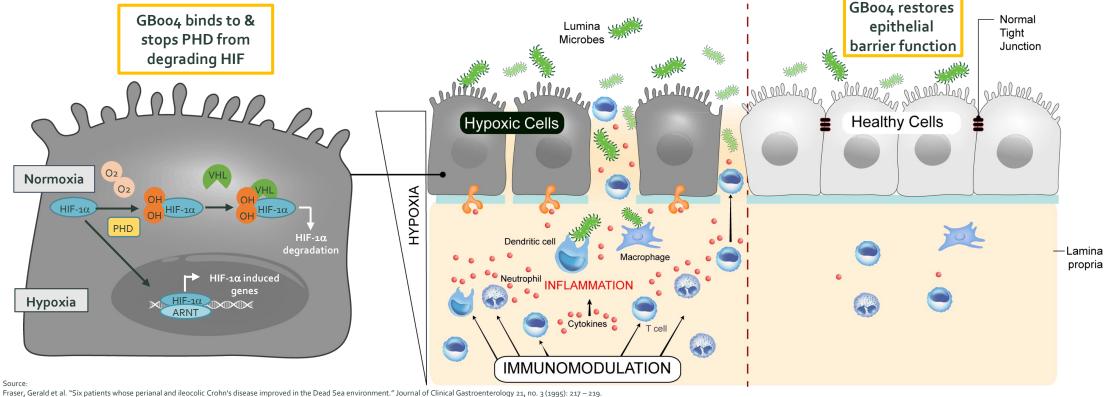
INDICATION	RESEARCH	PRE-CLINICAL	PHASE 1	PHASE 2	PHASE 3	Next Catalyst
Ulcerative Colitis	Phase 1b Ongoing					Phase 1b Results (1H 2020)



Mechanism of PHD Inhibitor to Restore Epithelial Barrier Function in IBD

CBOOK

- Dysregulation of hypoxia induced transcription factor (HIF) drives epithelial apoptosis leading to disruption of intestinal wall barrier and inflammation
- Inhibition of PHD stabilizes HIF expression, normalizing regulation of hypoxia leading to restoration of barrier function and resolution of inflammation
 - GB004 stabilizes HIF-1 α by inhibiting PHD-induced degradation of HIF-1 α
 - Stabilization of HIF-1α results in accumulation and translocation to the nucleus where HIF-1α drives protective gene expression in the epithelium
 - HIF-1α-mediated protective pathways (such as TFF3, CD73, MDR1) are critical for barrier integrity and function
- Emerging data suggests important role of oxygen regulation in IBD control; significantly decreased oxygen levels have been associated with inflamed mucosa in UC patients



Plase, defaulted at 3. Six patients whose perialisms of uncounted form of the safety and efficacy of hyperbaric oxygen therapy for inflammatory bowel disease." Alimentary Pharmacology & Therapeutic 39, no. 11 (2014): 1266 – 1275.

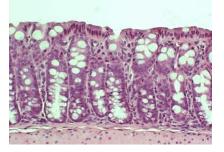
1510 - 1525.
Brown, Eric et al. "Inflammation-dependent transcriptional re-programming of the HIF pathway in the mucosa of ulcerative colitis patients." Gastroenterology, 156, no. 6 (2019), 5-606

Dulai, Parambir et al. "Hyperbaric oxygen therapy is well tolerated and effective for ulcerative colitis patients hospitalized for moderate-severe flares: a phase 2A pilot multi-center, randomized, double-blind, sham-controlled trial." American Journal of Gastroenterology 113, no. 10 (2018) 1516 – 1523.

Oral GB004 Reconstitutes the Epithelial Barrier and Improves Mucosal Healing

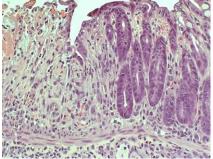


Naive



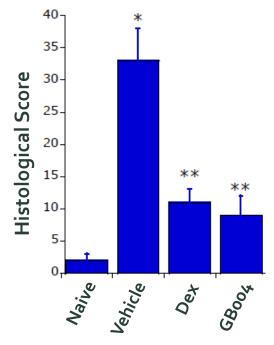
Dexamethasone

Vehicle



GBoo4 1omg/kg

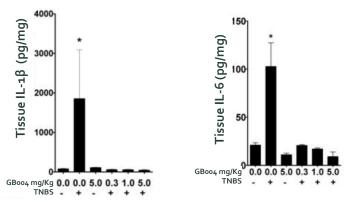
Histological Score Improvement in TNBS-Induced Colitis Model

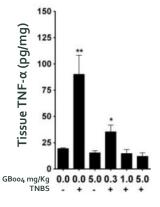


* p<0.01 compared to all other groups

GBoo4 Reduces Tissue Cytokines in







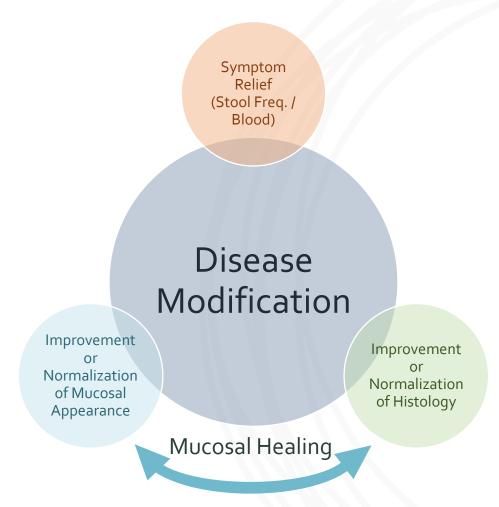




^{**} p<0.025 compared to placebo treated TNBS animals

Mucosal Healing Is Becoming An Important Therapeutic Objective In IBD





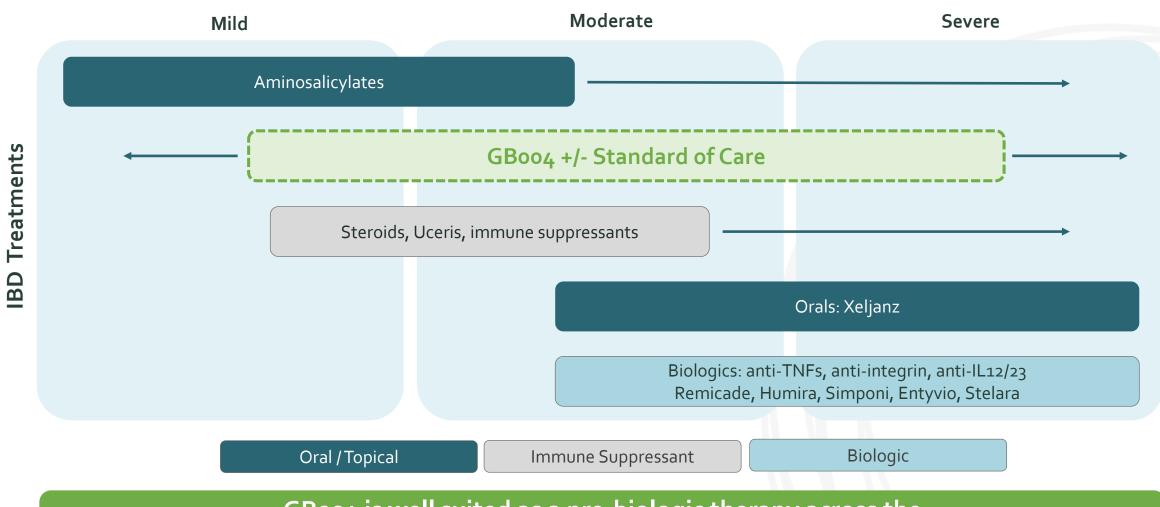
Improvement in mucosal appearance previously termed mucosal healing whereas now termed endoscopic improvement

- The concept of mucosal healing has been anchored on mucosal appearance
- Improvement of mucosal appearance has been associated with reduced:
 - Disease relapse
 - Hospitalizations
 - Colectomy
 - Inflammation associated colon cancer
- Mucosal healing rates low despite currently available therapies
- The concept of mucosal healing is evolving to include histology given additional prognostic relevance of this parameter



GBoo4 Represents a New, Gut-Targeted Transformative Approach in IBD



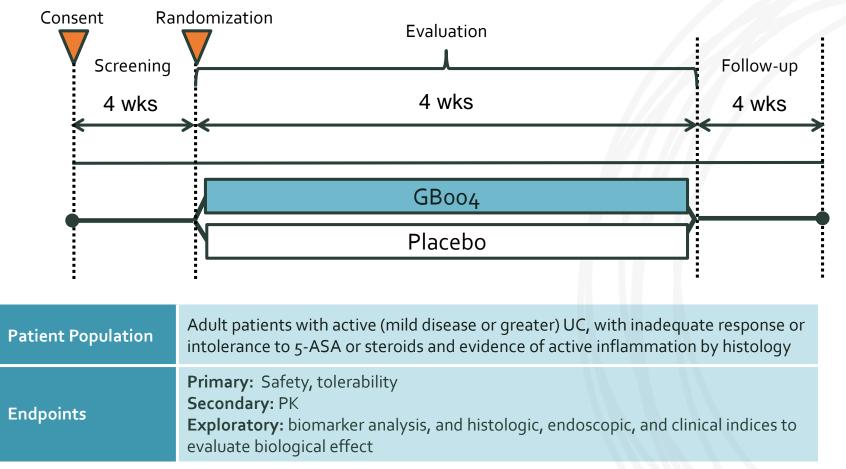


GBoo4 is well suited as a pre-biologic therapy across the spectrum of disease activity segment as monotherapy or in combination

Ongoing GB004 Phase 1b in Ulcerative Colitis to Allow for PK Assessment in Patients and Potential Initial Assessment of Biological Effect



A Phase 1b, signal seeking, placebo-controlled, dose-ranging study to evaluate the safety and pharmacokinetic profile of GBoo4 in adult patients with UC



GB1275

CD11b Modulator

Solid Tumors

GB1275: Opportunity to Improve Response Rates in Difficult-to-Treat Tumors Through Targeting Immunosuppressive Myeloid Cells



Product Description

- Oral, small molecule, first-in-clinic CD11b modulator for the treatment of solid tumors
- Disrupts multiple immunosuppressive myeloid cell subsets, including MDSCs and TAMs
- PC efficacy observed as single agent and synergistically in combo with chemo and IO therapies
- Clinical trial collaboration and supply agreement with Merck & Co. to study GB1275 in combination with KEYTRUDA (pembrolizumab) in the ongoing Phase 1/2 study for selected solid tumors
- Currently targeting immuno-oncology resistant tumors incl., PDAC, CRC, TNBC, CRPC and others
- Patent protection to 2036⁽¹⁾; Orphan Drug Designation from FDA for pancreatic cancer

INDICATION	RESEARCH	PRE-CLINICAL	PHASE 1	PHASE 2	PHASE 3	Next Catalyst
Oncology, Solid Tumors	Phase 1/2 Ongoing — K (Clinical Supply Agree	(EYNOTE-A36 ment with Merck for KE\	YTRUDA) ⁽²⁾			Initial Phase 1 Results (2H 2020)

PC = preclinical; chemo = chemotherapy; IO = immuno-oncology; PDAC = pancreatic ductal adenocarcinoma; CRC = colorectal cancer; TNBC = triple negative breast cancer; CRPC = castrate-resistant prostate cancer; MDSC = myeloid-derived suppressor cells; TAM = tumor-associated macrophage.

2) Gossamer Bio maintains full worldwide rights to GB1275.

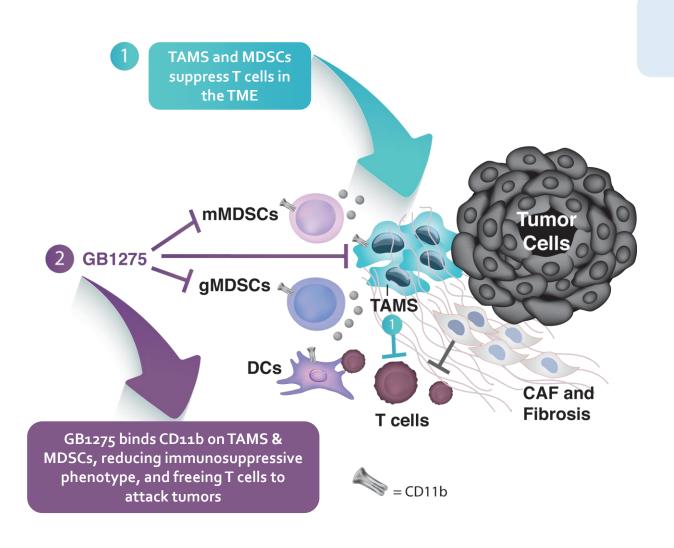


¹⁾ Does not include available patent term extension. Corresponding patent(s) and patent application(s) with compound-specific claims.

Total patent life with patent term extension cannot exceed 14 years from approval.

(P)

MDSCs and M2 Macrophages Generate an Immunosuppressive Tumor Microenvironment and Hinder Response to IO Agents



GB1275 is an Allosteric Modulator of CD11b, which Impacts Myeloid Cell Migration and Polarization

- MDSC- and TAM-mediated immunosuppression of T cells in the tumor microenvironment is associated with worse clinical outcome
- GB1275 is an allosteric modulator of CD11b which repolarizes myeloid suppressive cells (mMDSCs & gMDSCs) and TAMs, reducing their immunosuppressive roles and allowing T cells to attack tumors
- **GB1275** also prevents migration of additional CD11b+ monocytes to the tumor microenvironment



CPS S

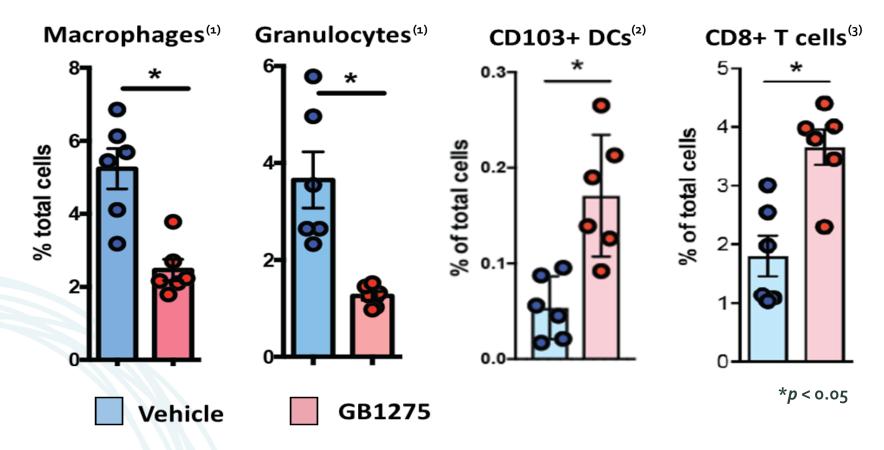
GB1275 Offers Unique & Complementary Opportunity to Inhibit Immunosuppressive Myeloid Cell Types

Target	T-reg	Monocytic (m) MDSC	Granulocytic (g) MDSC	TAM Polarization	Example Product Candidate	Latest Phase of Development
CD11b ⁽¹⁾⁽²⁾		X	X	X	GB1275	Phase 1 / 2
CCR2 ⁽³⁾⁽⁴⁾ / CCR5 ⁽⁵⁾	X	X		X	ex. BMS-813160 (BMS)	Phase 2
CCR2 ⁽³⁾⁽⁴⁾		X		X	ex. PF-04136309 (Pfizer)	Phase 2
CSF1R ⁽⁶⁾⁽⁷⁾				X	ex. Cabiralizumab (Five Prime / BMS)	Phase 2
CXCR ₂ Inhibitor ⁽³⁾			X		ex. AZD5069 (AstraZeneca)	Phase 2

- CCR2 or CSF1R inhibitors may be limited by compensatory recruitment of gMDSCs
- GB1275 blocks gMDSC and mMDSC cell recruitment to the tumor site and blocks M2 polarization
- GB1275 MDSC/TAM modulation effects are tumor-localized, without impact on myeloid cells in the periphery, avoiding concerns for dose-limiting neutropenia as observed with other myeloid cell therapies
 - 1) Panni, Roheena et al. "Agonism of CD11b reprograms innate immunity to sensitize pancreatic cancer to immunotherapies" Science Translational Medicine 11 (2019).
 - 2) Schmid, Markus et al. "Integrin CD11b activation drives anti-tumor innate immunity." Nature Communications 9, no. 10 (2018): 1516-1523.
 - 3) Nywening, Timothy et al. "Targeting both tumour-associated CXCR2+ neutrophils and CCR2+ macrophages disrupts myeloid recruitment and improves chemotherapeutic responses in pancreatic ductal adenocarcinoma." Gut 67, no. 6 (2018): 1112-1123.
 - 4) Deci, Michael et al. "Modulating macrophage polarization through CCR2 inhibition and multivalent engagement." Molecular Pharmaceutics 15, no. 7 (2018): 2721-2731.
 - 5) Tan, Marcus et al. "Disruption of CCR5-dependent homing of regulatory T cells inhibits tumor growth in a murine model of pancreatic cancer." Journal of Immunology 182, no. 3 (2009): 1746-1755.
 - 6) Cannarile, Michael et al. "Colony-stimulating factor 1 receptor (CSF1R) inhibitors in cancer therapy." Journal of ImmunoTherapy of Cancer (2017).
 - Pyonteck, Stephanie et al. "CSF-1R inhibition alters macrophage polarization and blocks glioma progression." Nature Medicine 19, no. 10 (2013): 1264-1272.



GB1275 Reduces Tumor Infiltration of Myeloid Cells and Increases Influx of Activated CD8+ T cells



- GB1275 immuno-modulatory effects were tumor-localized
- GB1275 did not alter immune cell phenotypes in the periphery, spleen or bone marrow



¹⁾ Frequencies of tumor-infiltrating granulocytes and macrophages in orthotopic KP2 PDAC models 10 days after treatment with GB1275 or vehicle.

²⁾ Frequencies of CD103+ DCs in orthotopic KP2 PDAC tissues from mice treated for 12 days with GB1275 or vehicle.

³⁾ Frequencies of tumor-infiltrating CD8a+ CTLs in orthotopic KP2 PDAC tissues from mice treated 10–12 days with GB1275 or vehicle.

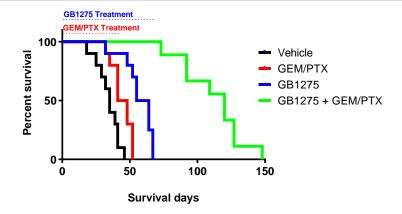
Source: Panni, Roheena et al. "Agonism of CD11b reprograms innate immunity to sensitize pancreatic cancer to immunotherapies" Science Translational Medicine 11 (2019).

GB1275 Single Agent or in Combination Improves Efficacy and Survival Outcomes in Multiple Difficult-to-Treat Tumor Models

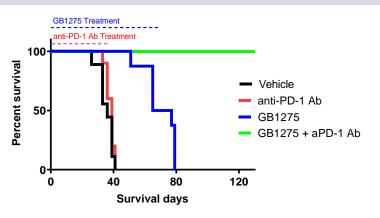


GB1275 Single Agent or in Combo with SoC or anti-PD-1 Ab Treatment Improves Efficacy and Survival Outcomes in the Pancreatic Adenocarcinoma Mouse Tumor Models(1)

GB1275 in Combination with Chemotherapy Extends Survival in the PDAC Model

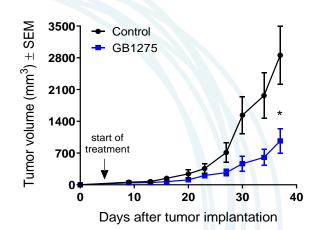


GB1275 Sensitizes PDAC Model to anti-PD-1 Ab Checkpoint Blockade

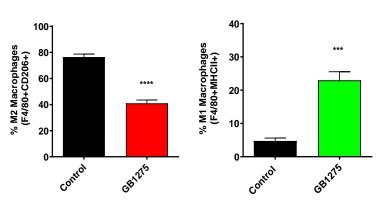


GB1275 Modulates Breast Cancer Tumor Microenvironment via Repolarization of Tumor Associated Macrophages (2)

GB1275 Displays Efficacy in the Orthotopic CL66 Breast Tumor Model



GB1275 Repolarizes TAMs in the CL66 Breast Tumor Model





¹⁾ Panni, Roheena et al. "Agonism of CD11b reprograms innate immunity to sensitize pancreatic cancer to immunotherapies" Science Translational Medicine 11 (2019).

²⁾ Schmid, Markus et al. "Integrin CD11b activation drives anti-tumor innate immunity." Nature Communications 9, no. 10 (2018): 1516 – 1523.

KEYNOTE-A36: Ongoing Phase 1/2 Study of GB1275 In Select Solid Tumor Indications

A Phase 1/2, dose-ranging, signal seeking, clinical trial of GB1275 in adult subjects with various types of solid tumors, including PDAC, gastric, esophageal, prostate, TNBC and CRC

Phase 1

3 Dose Escalations:

- Monotherapy
- Anti-PD1 combo
- Gem / Abraxane combo

Phase 2

3 Expansion Cohorts:

- 1L mPanc (+ chemo)
- 2-4L MSS CRC (+ anti-PD-1)
- 3-4L PDL1+ Gastric (+ anti-PD-1)

Endpoints

Primary and Secondary (Phase 1): Safety, tolerability, PK, PD
Primary (Phase 2): Objective Response Rate
Secondary (Phase 2): Duration of Response, Time to Response, Clinical Benefit Rate,
Progression Free Survival, Time to Progression, Overall Survival, Safety, PK



Corporate Overview and Milestones

Financial Overview

Cash, Cash Equivalents and Marketable Securities (As of 9/30/2019)	\$446.5mm
Debt (Initial tranche of \$150 million debt facility, announced 5/2/19)	\$30mm
Additional Debt Capacity (Remaining capacity of \$150 million debt facility, announced 5/2/19)(1)	\$120mm
Common Shares Outstanding (As of 11/6/2019)	66.omm



Upcoming Milestones

Indication	Milestone	Timing
GBoo1 (Asthma, Chronic Rhinosinusitis & Chronic Spontaneous Urticaria)		
Asthma	Phase 2b Interim Analysis (LEDA Study)	1H 2020
CSU	Phase 2 Initiation	1H 2020
Asthma	Phase 2b Topline Results (LEDA Study)	2H 2020
CRS	Phase 2 Topline Results (TITAN Study)	2H 2020
GB002 (Pulmonary Arterial Hypertension)		
PAH	Phase 2 Initiation	1H 2020
PAH	Phase 1b 2 Week Results	1H 2020
GBoo4 (Inflammatory Bowel Disease)		
UC	Phase 1b Results	1H 2020
UC	Phase 2 Initiation	1H 2020
GB1275 (Oncology, Solid Tumors)		
Solid Tumors	Phase 1 Results (KEYNOTE-A ₃ 6)	2H 2020

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Experienced Leadership Team at the Helm



Sheila Gujrathi, MD
Chief Executive Officer















Bryan GiraudoChief Financial Officer





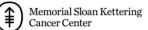


Jakob Dupont, MD
Chief Medical Officer











Luisa Salter-Cid, PhD
Chief Scientific Officer







Christian Waage
EVP and General Counsel





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Faheem Hasnain Chairman Kristina Burow
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