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# **Novel Treatment for Unmet Medical Need**

Lin BioScience, Inc. (TW TPEx: 6696) is a drug development company established in 2016 focusing on advancing novel therapies and first-in-class treatments for unmet medical needs in various therapeutic areas such as ophthalmology, oncology, and metabolic diseases. The Company's pipeline consists of RBP4 IP portfolio, CDC7 IP portfolio and 4 distinct small molecule drug candidates. LBS-008, targeted to treat Stargardt disease and Geographic Atrophy ("GA"), and LBS-009, targeted to treat NASH, derived from the RBP4 IP portfolio, are developed by Belite Bio, a subsidiary company of Lin BioScience. LBS-007, developed from the CDC7 platform technology and targeted to treat various cancers, and LBS-002, targeted to treat glioblastomas and metastatic brain tumors, are developed by Lin BioScience.

LBS-007 is a non-ATP competitive CDC7 inhibitor for the treatment of a broad array of cancers, especially for refractory/relapsed and late-stage cancers such as AML, ALL, ovarian cancer, pancreatic cancer, etc., which has entered phase 1 in 2022. LBS-007 has been granted orphan drug designation (ODD) in the U.S. for the treatment of AML and ALL. LBS-007 has also obtained Fast Track Designation from the US FDA in 2024 for the treatment of AML.

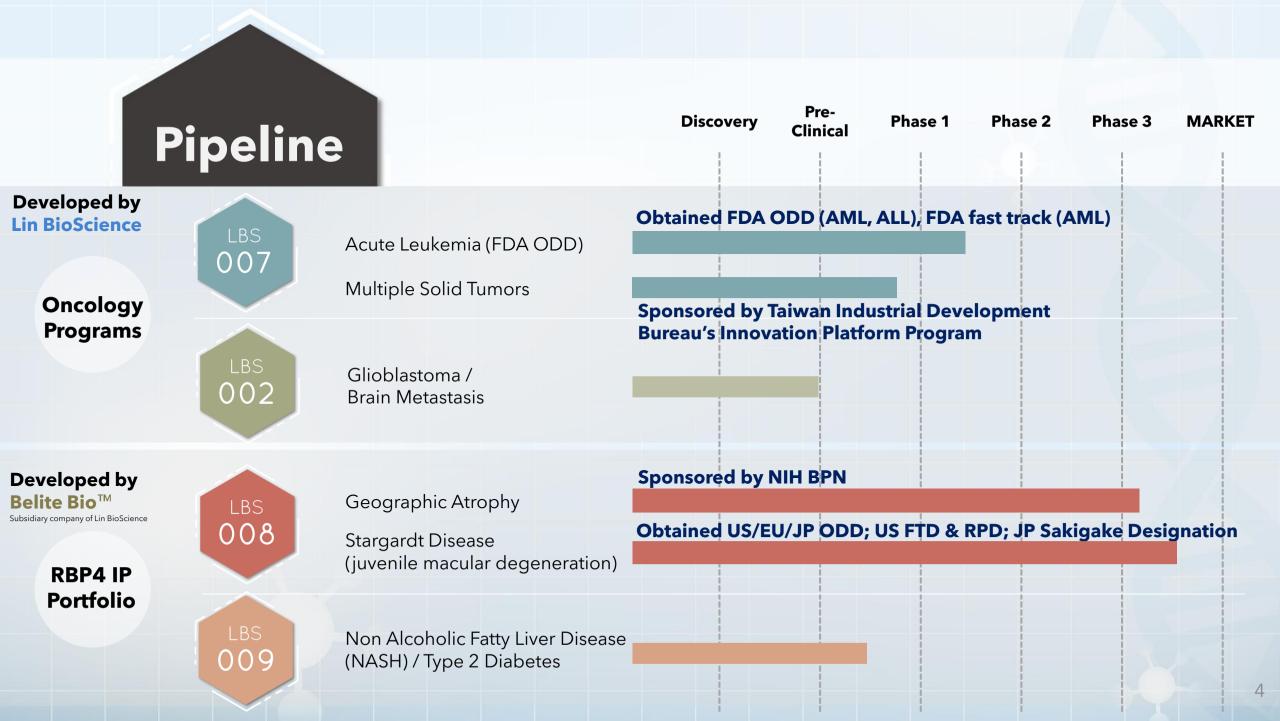
LBS-008 is the only drug candidate intended to treat GA within the current drug development projects of the NIH Blueprint Program ("BPN"), whose mission is to foster small-molecule neurotherapeutic development. The mechanism of action utilized by LBS-008 has been recognized and recommended as a priority for clinical development in both STGD1 and GA in a systematic review published by the U.K. National Institute for Health Research, or the NIHR, in 2018. LBS-008 phase 3 for Stargardt disease is currently ongoing and has completed its enrollment in 2023/2H, with interim results expected in early 2025. Additionally, a Phase 1b/2/3 trial for Stargardt disease was initiated in 2024 and is currently enrolling. For GA, LBS-008 has initiated its phase 3 trial in 2023 and is currently enrolling. LBS-008 has been granted Fast Track Designation and Rare Pediatric Disease designation in the U.S., Orphan Drug Designation in the U.S. Europe, and Japan, and Sakigake Designation in Japan for the treatment of STGD1.











## Chairman

# Tom Lin, MMED, PhD, MBA (Chairman)



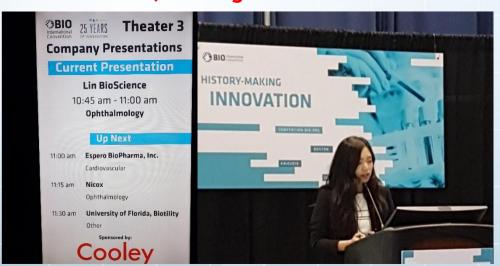
- •10+ years of executive management role in biotech, incl. 4 IPO (Lin BioScience & Belite)
- Multidisciplinary Specialization Clinical Training & Research in Neuroscience, Cardiovascular & Renal Medicine, Oncology, Immunology & Immunotherapy

- PhD in Medicine University of Sydney; Specialization: Neurology & Immunology
- o Treatment Strategies for Autoimmune Neuropathies
- Specialist Certificate in Clinical Neuroscience University of Melbourne; Specialization: Neurology
- o Neurological Disorders, Neuroimaging & Diagnostics
- o Clinical Research & Design
- Master of Medicine University of Sydney; Specialization: Multidisciplinary Medicine and Surgery
- o Medicine: Cardiovascular & Renal Medicine, Neonatal Medicine
- Surgery: Vascular & Endovascular Surgery, Transplant Surgery
- Cancer Therapeutics & Research Certificate Harvard Medical School
- Master of Business Administration Columbia University, London Business School, HK University
- Extensive Drug development from preclinical to global phase 3 trials
- o Phase 3 RBP4 Inhibitor for the Treatment of Atrophic Macular Degeneration & Stargardt Disease
- o Phase 2 Oubain Antagonist in the Treatment of Essential Hypertension
- o Phase 2 SERCA2a Inhibitor in the Treatment of Acute Heart Failure
- o Phase 2 Pan-HER Inhibitor in the Treatment of HER2+ Breast Cancer and Gastric Cancer
- o Phase 3 Anti-Glycan Active Immunotherapy in the Treatment of Metastatic Breast Cancer
- $_{\circ}$  Phase 3 Anti- $_{\alpha}$ 4 integrin Antibody in the Treatment of Resistant-Refractory Multiple Sclerosis
- o Phase 2 mTOR Immunosuppressant in the Treatment of Autoimmune Peripheral Neuropathies
- Co-invented and applied 64 patents

# **Management Team**

# Irene Wang, PhD, MBA (President & CSO)

- PhD in Biochemical Sciences, National Taiwan University, Trained at Scripps Research (TSRI), EMBA from University of California San Diego
- Co-invented and applied 125 patents and published 6 papers
- Extensive Drug development from preclinical to global phase 3 trials and 3 IPOs (including Lin BioScience and Belite Bio)



I've loved chemistry since
I was little. I was dedicated to
studying chemistry and scientific
research since middle school.
And now, I'm working on drug
development, doing significant
things to improve the lives
of human beings.

Irene Wang, PhD, MBA

President
LIN BIOSCIENCE



# **Management Team**

#### Yvonne Chen (COO)



- Certified pharmacist & master in Science (Medicinal Chemistry) from National Taiwan University
- Served as Global Project Lead and Manager in Pfizer Taiwan
- Vast experience in clinical trial management and regulatory submissions with over 50 studies in various indications and 3 IPOs (including Lin BioScience and Belite Bio)

# Serena Chen, CPA (CFO)



- Certified Public Accountant & master in accounting from National Taipei University.
- Finance manager in a Taiwan biotech company and as assistant manager of audit department in Deloitte Taiwan
- Vast experience in auditing of listed companies and initial public offering (including Lin BioScience and Belite Bio)



# **CONGRATULATIONS!**

**LBS-007 Received U.S. FDA Fast Track Designation!!** 



We are excited to announce that the FDA has granted Fast Track Designation to LBS-007 for the potential treatment of relapsed or refractory acute myeloid leukemia (AML) on **26Nov2024**. The FDA's decision to grant LBS-007 Fast Track Designation for AML underscores the urgent need for a new therapeutic to fill the unmet medical need associated with Leukemia.

Phase 4

## THERAPEUTIC OPTIONS FOR CANCER

**Unmet Medical Needs for Cancer Treatment - Next Generation Therapies** 

**Genetic Therapy** 

**Immunotherapy** 

**LBS-007** 

**Targeted Therapy** 

Chemotherapy

**LBS-007:** 

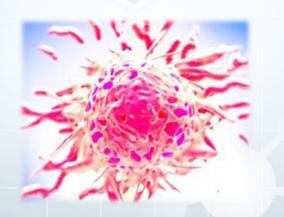
**An Innovation to Transform the Cancer Treatment Landscape** 

- Cancer treatments are like a pyramid higher levels have fewer side effects but are more costly and less applicable.
- Chemotherapies form the basis of all cancer treatments. Targeted therapies or immunotherapies are complemented by chemotherapies. Even late-stage cancers and cancers with limited treatment options are often managed by chemotherapies.
- The substantial side effects of chemotherapies, with their technology unchanged over 60 years, remain a significant unmet medical need.

## **Non-ATP CDC7 Inhibitor**

for treatment of Broad Variety of Cancer types

- DISCOVERY
- PRE-CLINICAL
- M PHASE I/II
- PHASE II/III
- MARKET



Novel Anti-Cancer
Target Therapy



**Orphan Drug Designation** 

For ALL: #DRU-2017-6250 For AML: #DRU-2024-10100

**Investigational New Drug** 

#120774 became active on 05Oct2024

**Fast Track Designation** 

For AML, granted on 26Nov2024

**MARKET** 

\$5B

Expected 2026 market size of AML & ALL

\$55B

Expected 2023 market size of pancreatic, lung, ovarian cancers

1.7 in 100k<sup>(1)</sup>
4.1 in 100K<sup>(2)</sup>

- (1) ALL incidence (2016)
- (2) AML incidence (2020)

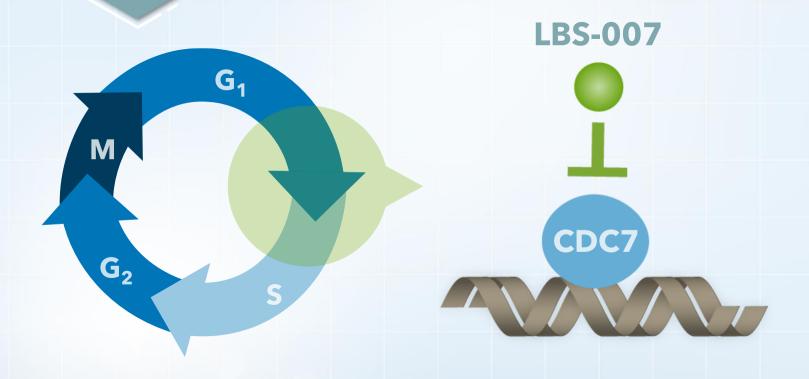
\$6B

Estimated global market

Reference: Globaldata, Marketwatch, NIH National Cancer Institute

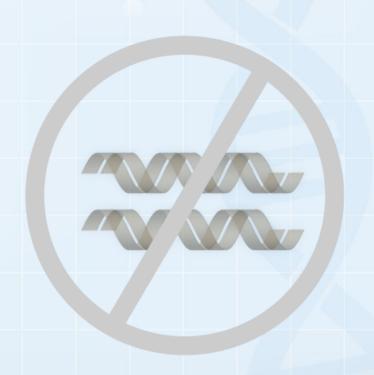


# **Inhibits CDC7 in Cell Cycle Regulation**



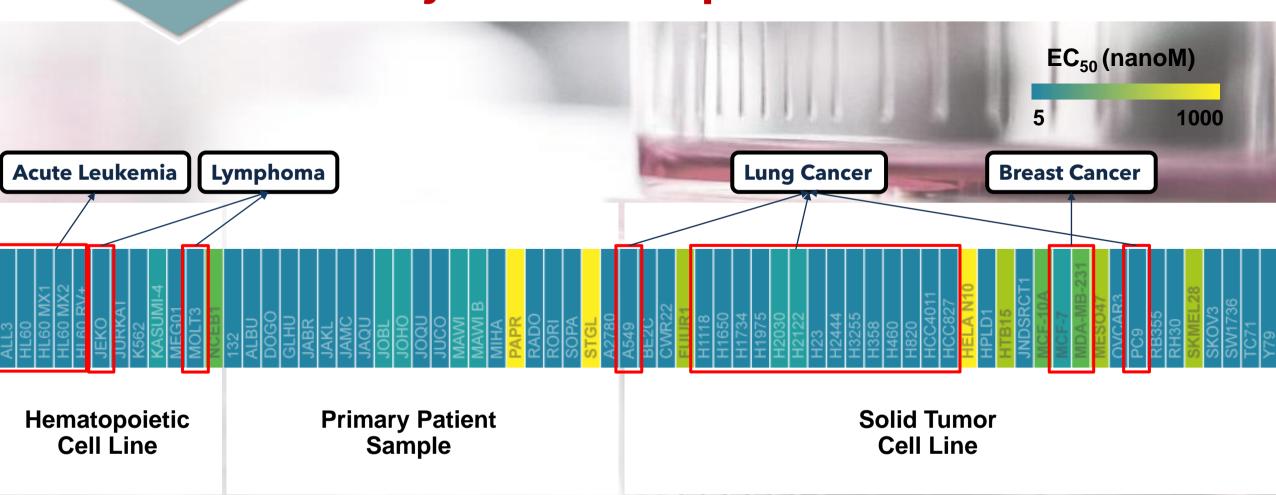






3 PREVENTS
Cell Division

# Potently Inhibits Multiple Cancer Cell Lines & Primary Patient Samples of Blood Cancers



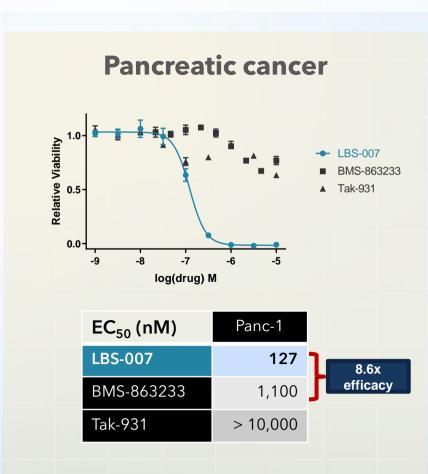


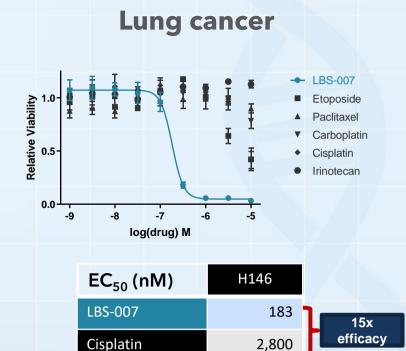
#### SUPERIOR EFFICACY AT NANOMOLAR POTENCY

Approx. 150 nanomolar of LBS-007 can achieve therapeutic effect on cancer cells

# AML 1.5 1.0 1.0 ■ LBS-007 (HL-60) ■ LBS-007 (MV4-11) ■ LBS-007 (THP-1) ■ BMS-863233 (HL-60) ■ BMS-863233 (MV4-11) ■ BMS-863233 (THP-1)

EC <sub>50</sub> (nM)	HL-60	60 MV4-11 THP	
LBS-007	83.8	71.5	108
BMS-863233	> 10,000	5,400	> 10,000





> 10,000

> 10,000

> 10,000

> 10,000

50+x efficacy

14

Etoposide

Irinotecan

**Paclitaxel** 

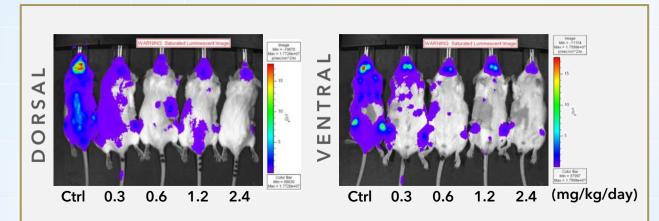
Carboplatin



## In Vivo Efficacy Demonstrated in Animal Models

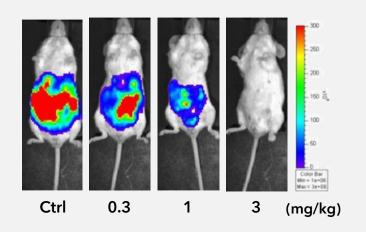
Potent tumor reduction in ALL and solid tumor mouse models

#### **Acute Lymphoblastic Leukemia (ALL)**



- √ In vivo dose responsive efficacy
- √ 95% tumor removal at 2.4 mg/kg/day
- ✓ No significant organ dysfunction or toxicity at therapeutic dose

#### **Ovarian Cancer**



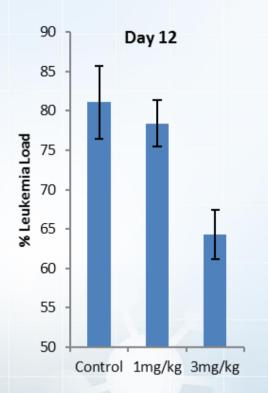
- ✓ In vivo dose responsive efficacy
- ✓ Inhibits ovarian cancer growth in mice
- ✓ Significant improvement in long-term survival



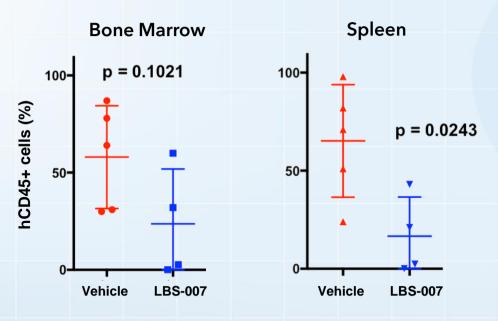
## In Vivo Efficacy Demonstrated in Animal Models

Potent tumor reduction in AML mouse models

#### **Aggressive AML mouse model (MLL-AF9)**



#### **AML** patient-derived xenograft in mice



- ✓ **Disease burden reduced** in aggressive AML mouse model at 3 mg/kg
- ✓ Inhibits human AML growth in mice

# **Clinical Development Summary**

Discovery Pre-Clinical Phase 1 Phase 2 Phase 3

	LBS-007-CT01	
Phase	1/2 (Phase 2 dose expansion after determining optimal dose in Phase 1)	
Enrollment	Estimated to enroll 90 patients	
Sites	Australia, Taiwan, US	
Masking	Open Label	
Treatment duration	7 consecutive days for one 28-day cycle	
Primary measures	Safety, tolerability, optimal dose, and PK profile of LBS-007	
Other measures	Efficacy of LBS-007	
Key Inclusion Criteria	Aged ≥ 18, with confirmed relapsed or resistant AML or ALL, ineligible for standard therapies with an ECOG of 0 to 2.	



## **MAJOR MILESTONES**

#### **Opening a New Era in Cancer Treatment**

- ✓ 2023/02/10 We announced that our candidate drug, LBS-007, has been approved by the Central Adelaide Local Health Network Human Research Ethics Committee (CALHN HREC) in Australia to conduct Phase I/II clinical trials for acute leukemia (including AML and ALL). The company aims to address unmet medical needs in the cancer treatment market.
- ✓ **2023/02/15** We submitted an IND application to Taiwan's Food and Drug Administration (TFDA) for Phase I/II clinical trials of our all-cancer candidate drug, LBS-007, targeting acute leukemia (including AML and ALL).
- ✓ **2024/10/05** We announced that our new drug, LBS-007, for the treatment of acute leukemia has passed the US FDA IND review for human clinical trials. Efforts to initiate Phase I/II clinical trials in the US are underway.
- ✓ 2024/11/26 We received Fast Track Designation from the U.S. FDA for our new drug, LBS-007, aimed at treating AML.
- ✓ Following the completion of Phase I clinical trials, the safety and efficacy of LBS-007 will be confirmed. We plan to simultaneously initiate clinical trials targeting other hard-to-treat solid tumors, including pancreatic cancer, small-cell lung cancer, and ovarian cancer.





# **Belite Bio Pipeline Overview**



		PRECLINICAL	PHASE 1	PHASE 2	PHASE 3	NDA
	<ul><li>Stargardt Disease (STGD1)</li></ul>					
Tinlarebant	<ul> <li>Ph2 24-month final data continu</li> <li>Ph3, 2-year treatment, global tria interim analysis expected by end</li> <li>Ph2/3, 2-year treatment, global to</li> </ul>	al ("DRAGON" Stu d of 2024 or early	dy) is ongoing (cc 2025)	ompleted enrollmen		ge 12-20,
	<ul><li>Geographic Atrophy (GA)</li></ul>					
	<ul> <li>A Ph3, 2-year treatment, global t</li> </ul>	trial ("PHOENIX" S	tudy, <b>429 subjec</b> t	<b>ts</b> ) is ongoing		

- Tinlarebant is a novel, once daily oral tablet designed to bind to serum retinol binding protein 4 (RBP4) as a means to specifically reduce retinol delivery to the eye. This approach is intended to slow or halt the formation of the toxic retinol-derived by-products that are generated in the visual cycle and are implicated in progression of STGD1 and GA.
- Belite Bio believes that **early intervention directed at emerging retinal pathology**, which is not mediated by inflammation, would be the best approach to potentially slow disease progression in STGD1 & GA.
- Unmet Market Opportunity:
  - No FDA approved treatments for STGD1
  - No FDA approved orally administered treatments for GA
- Fast Track Designation & Rare Pediatric Disease in US and Orphan Drug designation in US / EU / JP, Pioneer Drug designation in JP, for STGD1
- 14 active patent families; composition of matter patent until at least 2040 without patent term extension

**Tinlarebant** (LBS-008)

# **Market Opportunity**

#### **STARGARDT**

**Advanced AMD** 

- DISCOVERY
- PRE-CLINICAL
- PHASEI
- PHASE II
- PHASE III
- MARKET

1 in 10,000

The most common inherited retinal dystrophy

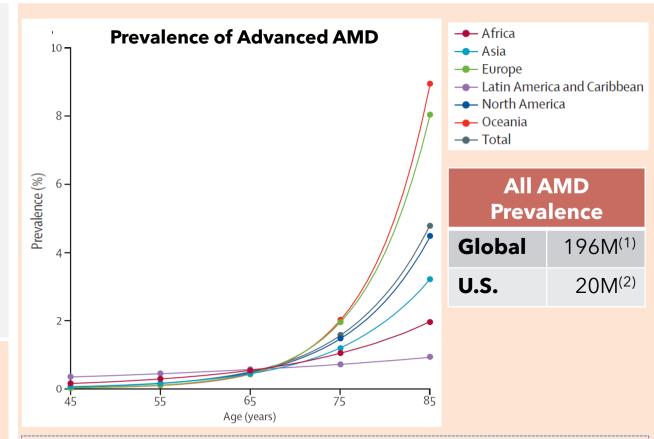
Patient population with Stargardt Disease:

30k

146k

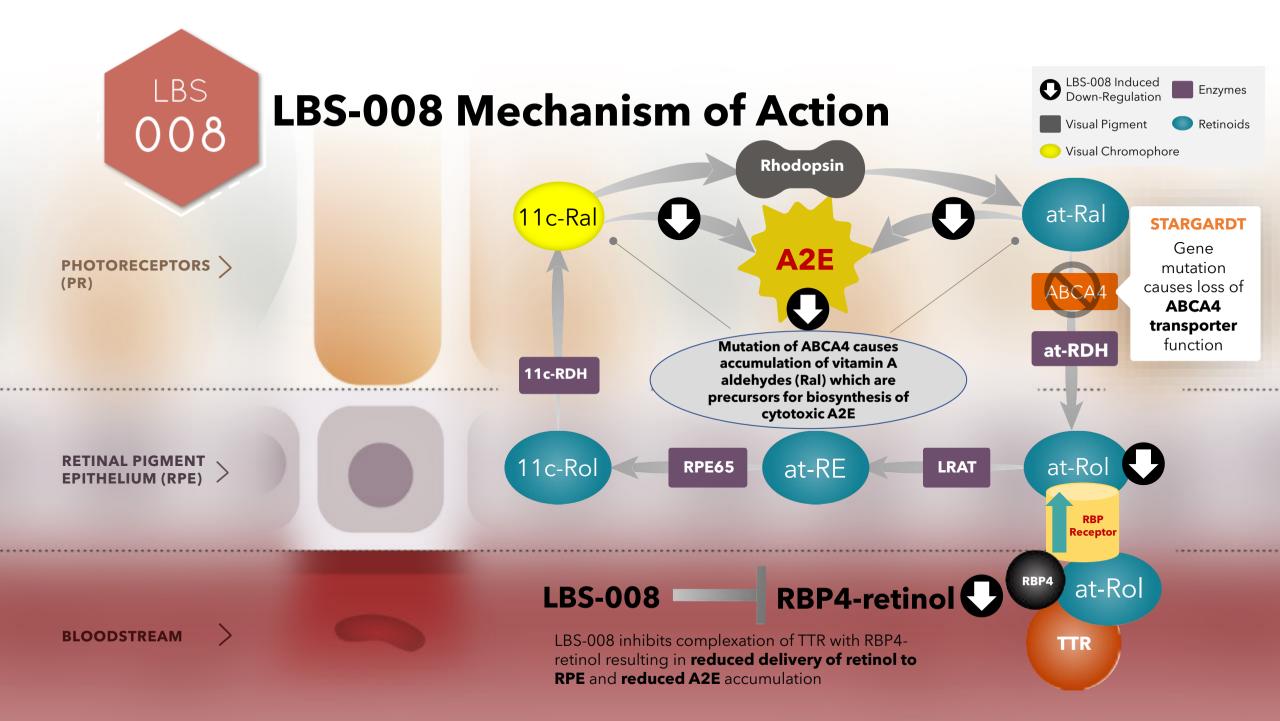
**Columbia University + NIH Blueprint** 

"a promising first-in-class oral medication intended to slow or halt the progression of dry AMD"



AMD patient population is expected to grow from 196M in 2020 to 288M in 2040

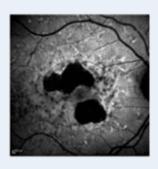
Reference: (1) Wan LingWong et al. Global prevalence of AMD and disease burden projection for 2020 and 2040. 2014; (2) Prevalence Estimates Vision and Eye Health Surveillance System Vision Health Initiative (VHI) CDC, 2022



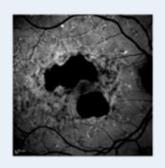


# Similar Pathophysiology in STGD1 & GA

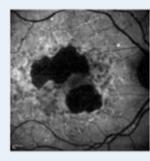
- STGD1 and GA share a similar pathophysiology characterized by excessive accumulation of cytotoxic bisretinoids, retinal cell death, and loss of vision
- Vision loss occurs slowly, despite peripheral expansion of 'dead retina', until the disease reaches the center of the eye (the macula)
- Slowing or halting the spread of 'dead retina' is the intended effect of Tinlarebant treatment



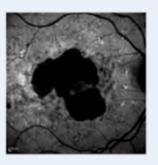
Baseline: 0.1 LogMAR



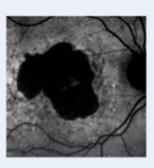
+12 Months: 0.1 LogMAR



+24 Months: 0.0 LogMAR



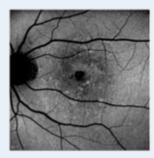
+36 Months: 0.1 LogMAR



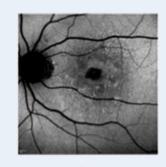
+57 Months: 0.5 LogMAR



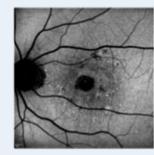
BL: 0.2 LogMAR



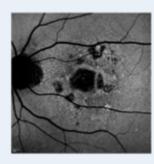
+12 Mo: 0.2 LogMAR



+ 24 Mo: 0.3 LogMAR



+ 36 Mo: 0.4 LogMAR



+55 Mo: 0.6 LogMAR



# CLINICAL TRIAL DESIGN OVERVIEW IN STGD1 PHASE 2

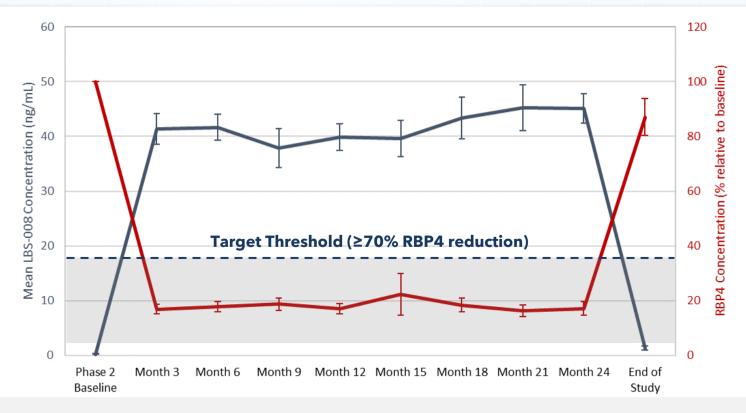
Reduction in Lesion Growth Rate (DDAF) as Measured by Retinal Imaging is an FDA Accepted Primary Endpoint in STGD1 and GA

	STGD1 Phase 2 "LBS-008-CT02" (Preliminary 24-Month Interim Data Available)	
Enrollment	13 subjects* (QDAF, no DDAF)**	
Sites	Australia & Taiwan	
Masking	Open Label	
Placebo	N/A	
Treatment duration	2 years	
Primary measures	Safety & tolerability, optimal dose	
Other measures	DDAF, QDAF, BCVA, SD-OCT, microperimetry	
Interim analysis	Yes	
Key inclusion criteria	12-18 years old, diagnosed STGD1 with at least one mutation identified in the ABCA4 gene	

<sup>\*</sup>LBS-008-CT02 initially enrolled 13 subjects in Australia and Taiwan. One subject in Australia was lost to follow up, therefore 12 subjects with complete 24-month data were evaluated.

<sup>\*\*</sup>DDAF = definitely decreased autofluorescence; QDAF = questionably decreased autofluorescence.

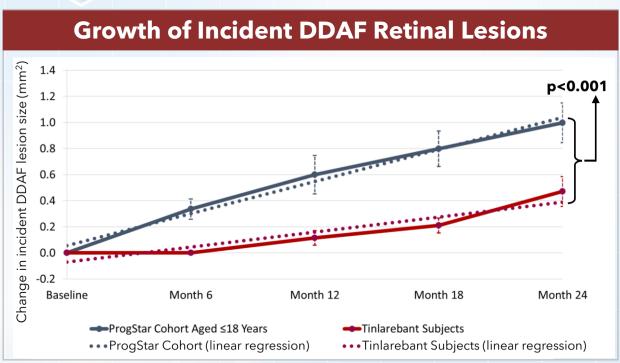
# PH2 24-MONTH: REDUCTION OF PLASMA RBP4 LEVELS



- The 5 mg daily dose was effective to reduce RBP4 level by a mean of approximately 80% relative to baseline
- RPB4 levels returned to 87% of the baseline value at End of Study (28-days following drug cessation)
- Recovery of RBP4 concentration correlated well with the decreased tinlarebant exposure

Note: Preliminary data and is subject to data verification and clean-up

# PH2 24-MONTH: SUSTAINED LOWER LESION GROWTH COMPARED TO PROGSTAR



	LBS-008-CT02	ProgStar Cohort 1, 2
Patient Pool	N=12	N=51* (aged ≤18 years)
Mean change in incident DDAF lesion size at Month 24	0.51± 0.4 mm²	1.00 ± 1.3 mm <sup>2</sup>

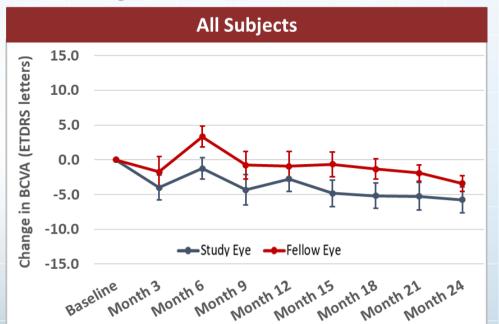
#### Note:

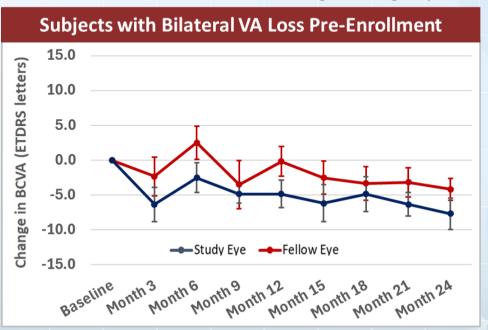
- \* Only 50 patients from ProgStar Cohort (aged ≤18 ) were included in the analysis due to one subject having ungradable screening FAF data
- 1. Strauss RW, Ho A, Muñoz B, et al. ProgStar Report No. 1. Ophthalmology. 2016;123(4):817-28.
- 2. Strauss RW, Muñoz B, Ho A, et al. ProgStar Report No. 9. JAMA Ophthalmol. 2017; 135(11):1232-1241.
- No development of DDAF in 5 of 12 subjects at the 24-month timepoint
- A comparison of the 24-month DDAF lesion growth between Tinlarebant-treated subjects and ProgStar participants possessing similar baseline characteristics (aged ≤18 years) showed a sustained lower DDAF lesion growth in Tinlarebant-treated subjects over the 24-month treatment period (p<0.001)

Note: Preliminary data and is subject to data verification and clean-up

# VISUAL ACUITY OUTCOMES DURING THE PHASE 2 STUDY

- Visual acuity was stabilized during the study with a mean loss of 5 letters in the cohort over 24 months of treatment (2.5 letters lost/year, left panel)\*
- For the 6 subjects with prior BCVA loss:
  - Pre-enrollment, mean BCVA loss pre-enrollment was ~10 letters/year
  - Following 24 months of treatment, mean BCVA loss of was 6.1 letters (3 letters/year, right panel)\*





\*Mean BCVA values at each timepoint were used to calculate the mean BCVA change over 24 months

# PH2 24-MONTH: WELL-TOLERATED DRUG-RELATED ADVERSE EVENTS

Adverse Events	Severity	Frequency (# and % of patients)
Xanthopsia/Chromatopsia	Mild	10/13 (76.9%)
Delayed Dark Adaptation	Mild	9/13 (69.2%)
Night Vision Impairment	Mild	1/13 (7.7%)
Increasing error score in FM100	Mild	1/13 (7.7%)
Intermittent headaches	Mild	2/13 (15.4%)

- Tinlarebant (5 mg p.o., daily) continues to be **safe** and **well tolerated** in adolescent STGD1 patients
- Tinlarebant treatment produced a mean 80% reduction of RBP4 (from baseline) throughout the study
- Delayed Dark Adaptation and Xanthopsia/Chromatopsia are the most common drug related ophthalmic AEs
- All instances of Delayed Dark Adaptation, Night Vision Impairment, and Xanthopsia/Chromatopsia were **mild** and **transient**
- No severe and moderate drug related AEs reported and no AEs requiring discontinuation of treatment
- No clinically significant findings in relation to vital signs, physical exams, cardiac health, or organ functions



# DRAGON & DRAGON II CLINICAL TRIAL DESIGN IN STGD1

Reduction in Lesion Growth Rate (DDAF) as Measured by Retinal Imaging is an FDA Accepted Primary Endpoint in STGD1 and GA

	STGD1 "DRAGON" Phase 3 <sup>(1)</sup>	STGD1 "DRAGON II" Phase 1b/2/3	
Enrollment	104 subjects (have DDAF) 60 subjects (have DDAF)		
Sites	Global	Japan, US, UK	
Randomization	2:1 ratio (Tinlarebant : Placebo)	1:1 ratio (Tinlarebant : Placebo)	
Masking	Double Blind		
Treatment duration	2 years		
Primary measures	Efficacy as measured through DDAF lesion growth rate, safety & tolerability		
Other measures	QDAF, BCVA, SD-OCT, microperimetry		
Interim analysis	Yes		
Key inclusion criteria	12-20 years old, diagnosed STGD1 with at least 1 mutation identified in the ABCA4 gene, atrophic lesion size within 3 disc areas (7.62 mm²), a BCVA of 20/200 or better		

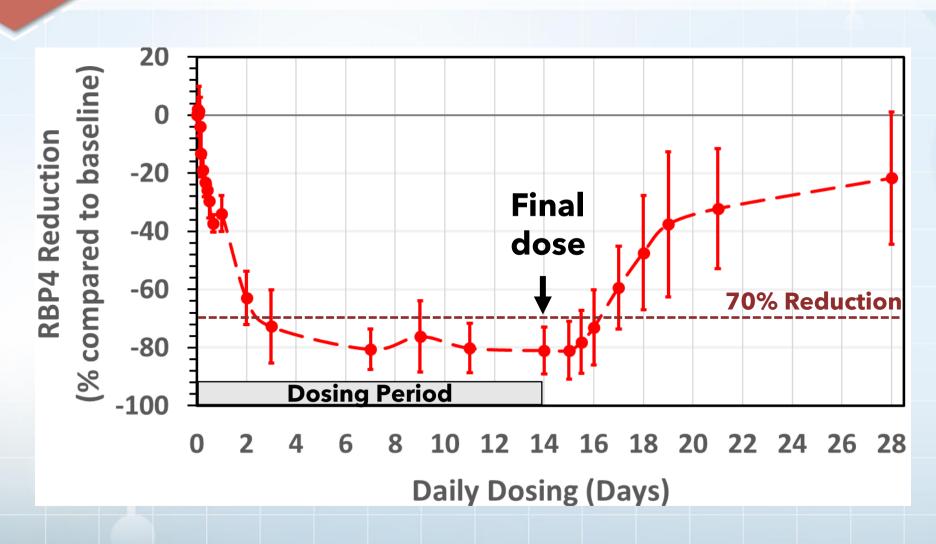
<sup>(1)</sup> FDA may require another clinical trial depending on the data from the ongoing Phase 3 study.

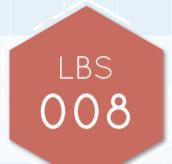




### **TINLAREBANT:** ≥ 70% REDUCTION OF RBP4

Phase 1, 5mg Daily Dosing in Healthy Adults: Mean Percent Reduction of RBP4 (excludes placebo)





## **CLINICAL TRIAL DESIGN OVERVIEW IN GA**

- Established Efficacy Endpoint Reduction in Lesion Growth Rate (DDAF) as Measured by Retinal Imaging is the FDA Accepted Primary Endpoint for STGD1 and GA
- Early Intervention Targeting patients with small lesion size to potentially slow or halt disease progress at an early stage
- Oral Once a Day Treatment well suited for long term treatment for chronic diseases
- Broad Potential Primary focus on GA; potential to treat earlier stages (e.g., intermediate AMD)

	GA Phase 3 "PHOENIX" (1)	
Enrollment	Approximately 430 subjects targeted (Enrolling)	
Sites	Global	
Masking	Double Blind	
Placebo	2:1 ratio (Tinlarebant : Placebo)	
Treatment duration	2 years	
Primary measures	Slowing of atrophic lesion growth, safety & tolerability	
Other measures	BCVA, SD-OCT, microperimetry	
Interim analysis	Yes	

