



Early Intervention with an Oral Treatment for Macular Degeneration

Mission for Vision

Nasdaq: BLTE

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Experienced Leadership Team



Belite Management Team



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

- 10+ years of executive management roles in biotech
- Over 10 new drug developments in multiple therapeutic areas including ophthalmology
- University of Sydney, University of Melbourne, Harvard Medical School, Columbia University, London Business School, HK University



Nathan Mata, PhD
(CSO)

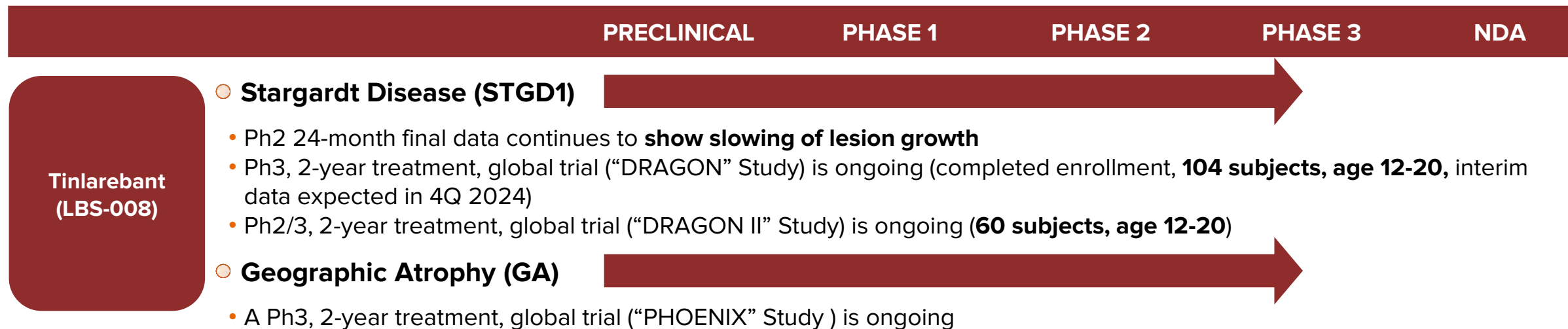
- 15+ years of ophthalmic drug development experience across numerous indications, including two NDAs (Durezol and Zirgan)
- Led clinical development efforts for the first RBP antagonist in advanced dry AMD and the first visual cycle modulator in dry AMD and STGD1
- Introduced the industry's first STGD1 ABCA4 knockout mice model
- University of Texas



Hao-Yuan Chuang, CFA, MBA, FRM
(CFO)

- 13+ years of capital market experience; closed more than US\$32 billion of transactions
- Wanda, Suning, CITIC Securities
- Columbia University, London Business School, Hong Kong University

Belite Bio Pipeline Overview



- **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 Disease** designation in US / EU / JP for STGD1
- **14 active patent families**; composition of matter patent until at least **2040** without patent term extension

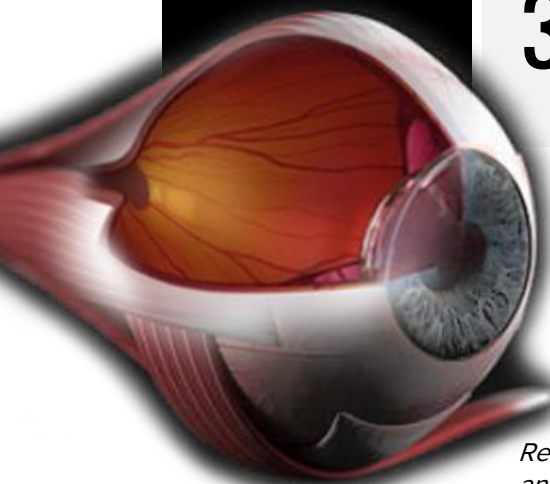


Tinlarebant Overview



Tinlarebant (LBS-008)

- DISCOVERY
- PRE-CLINICAL
- PHASE I
- PHASE II
- **PHASE III**
- MARKET



Market Opportunity

STARGARDT

1 in 10,000

The most common inherited retinal dystrophy

Patient population with Stargardt Disease:

30k
US

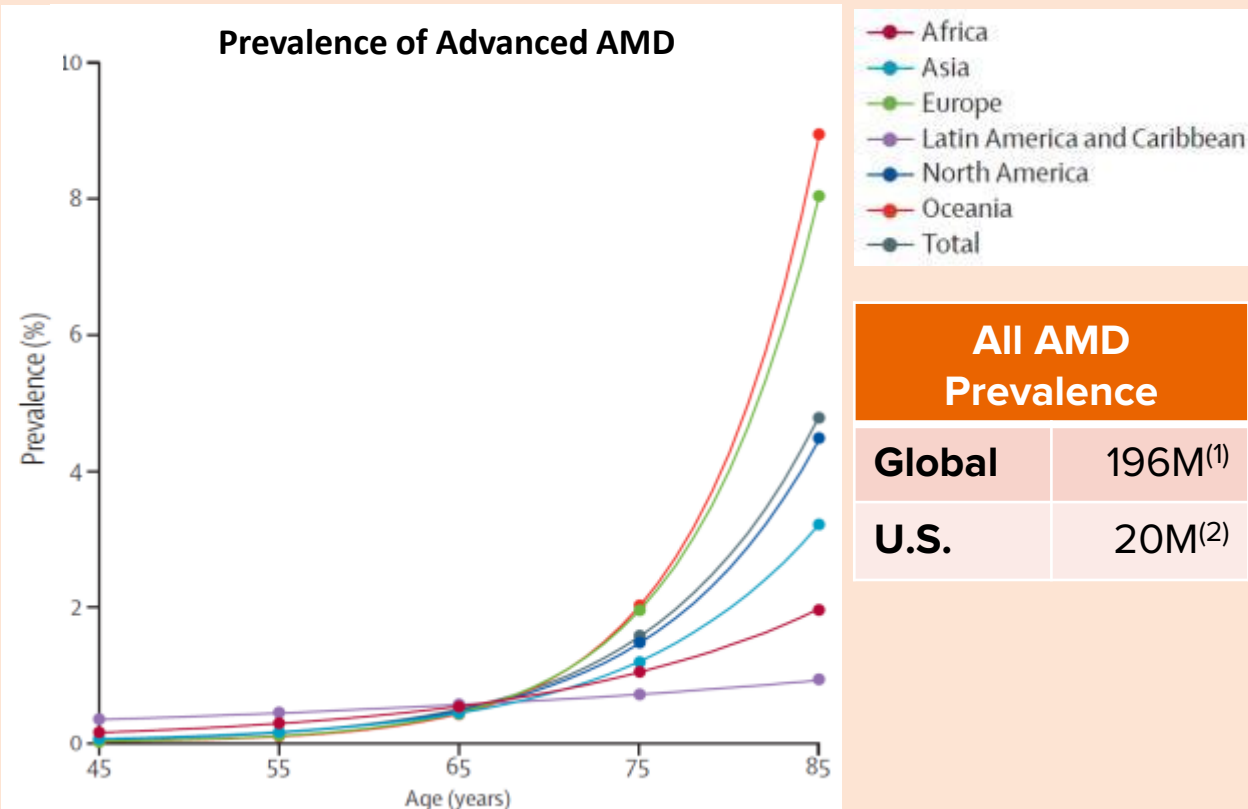
146k
China

Columbia University + NIH Blueprint

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

ADVANCED AMD

Prevalence of Advanced AMD



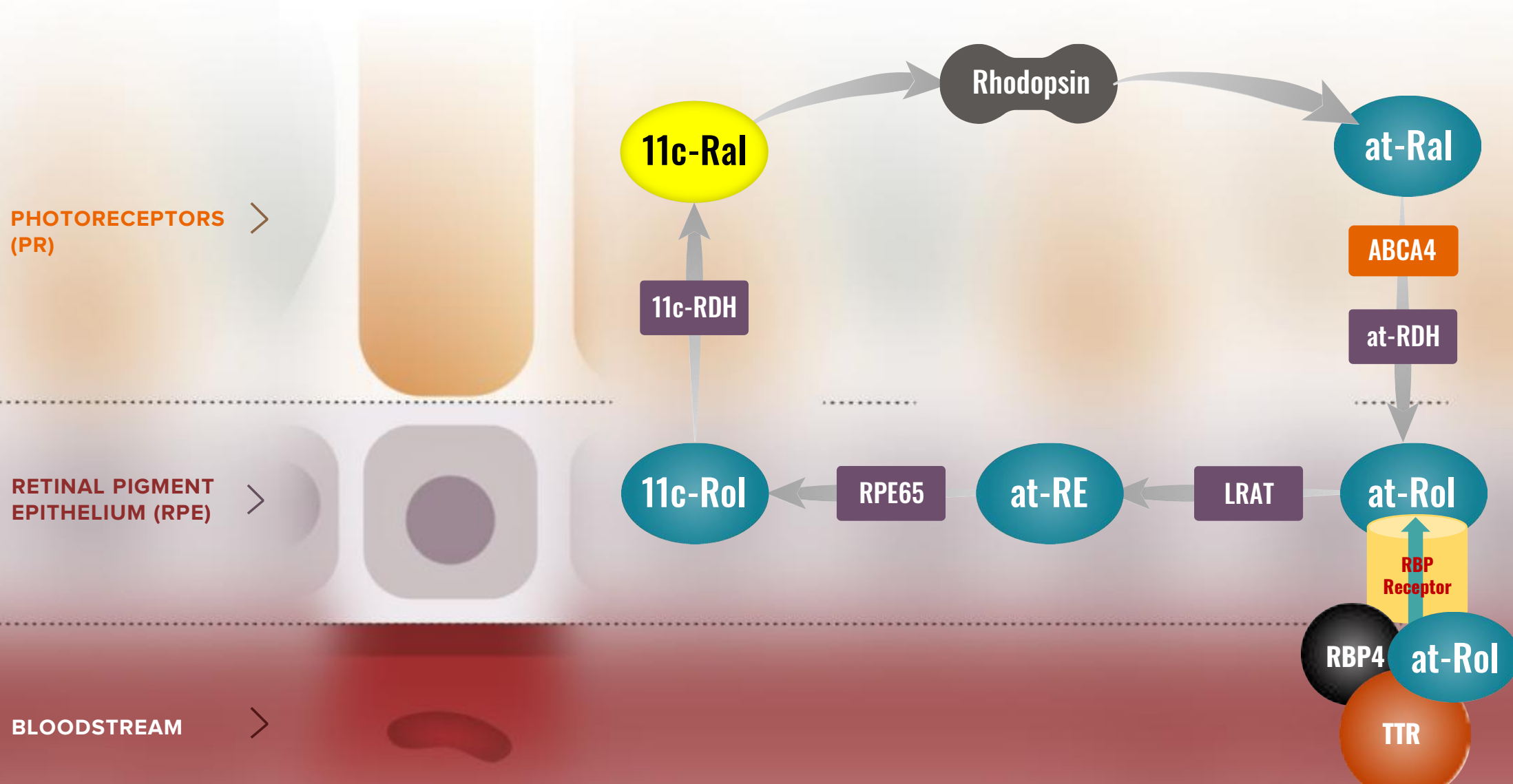
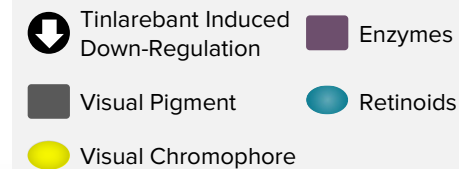
All AMD Prevalence

Global	196M ⁽¹⁾
U.S.	20M ⁽²⁾

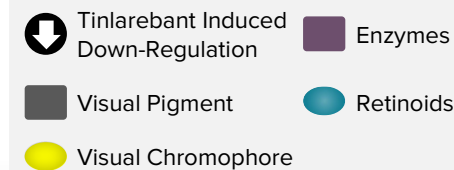
- **AMD patient population is expected to grow from 196M in 2020 to 288M in 2040⁽¹⁾**

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

Normal Processing of Vitamin A in the Visual Cycle



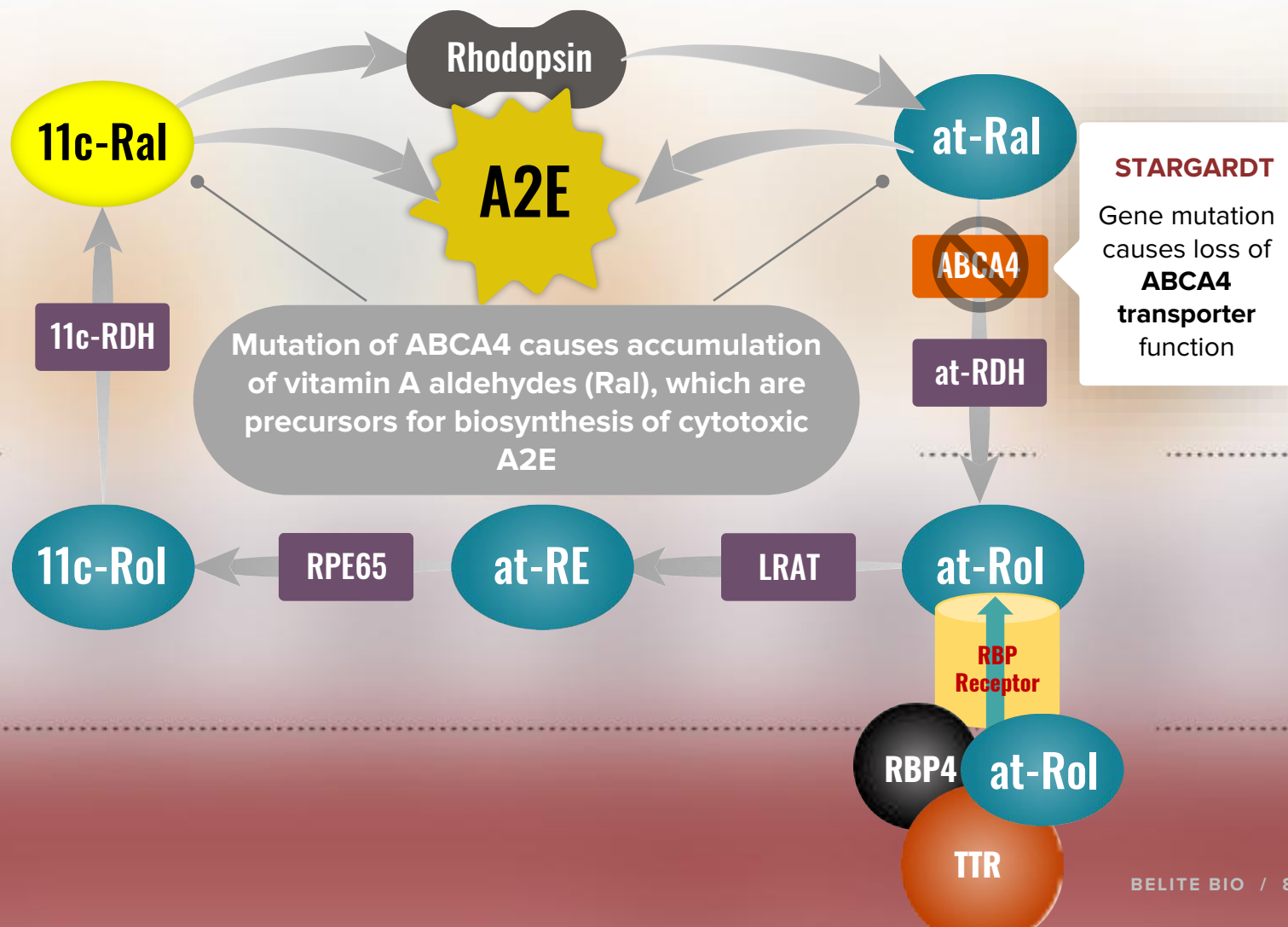
Toxic Vitamin A Byproducts Accumulate in Patients with STGD1



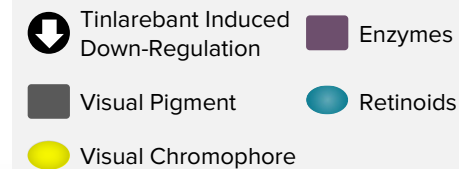
PHOTORECEPTORS (PR)

RETINAL PIGMENT EPITHELIUM (RPE)

BLOODSTREAM



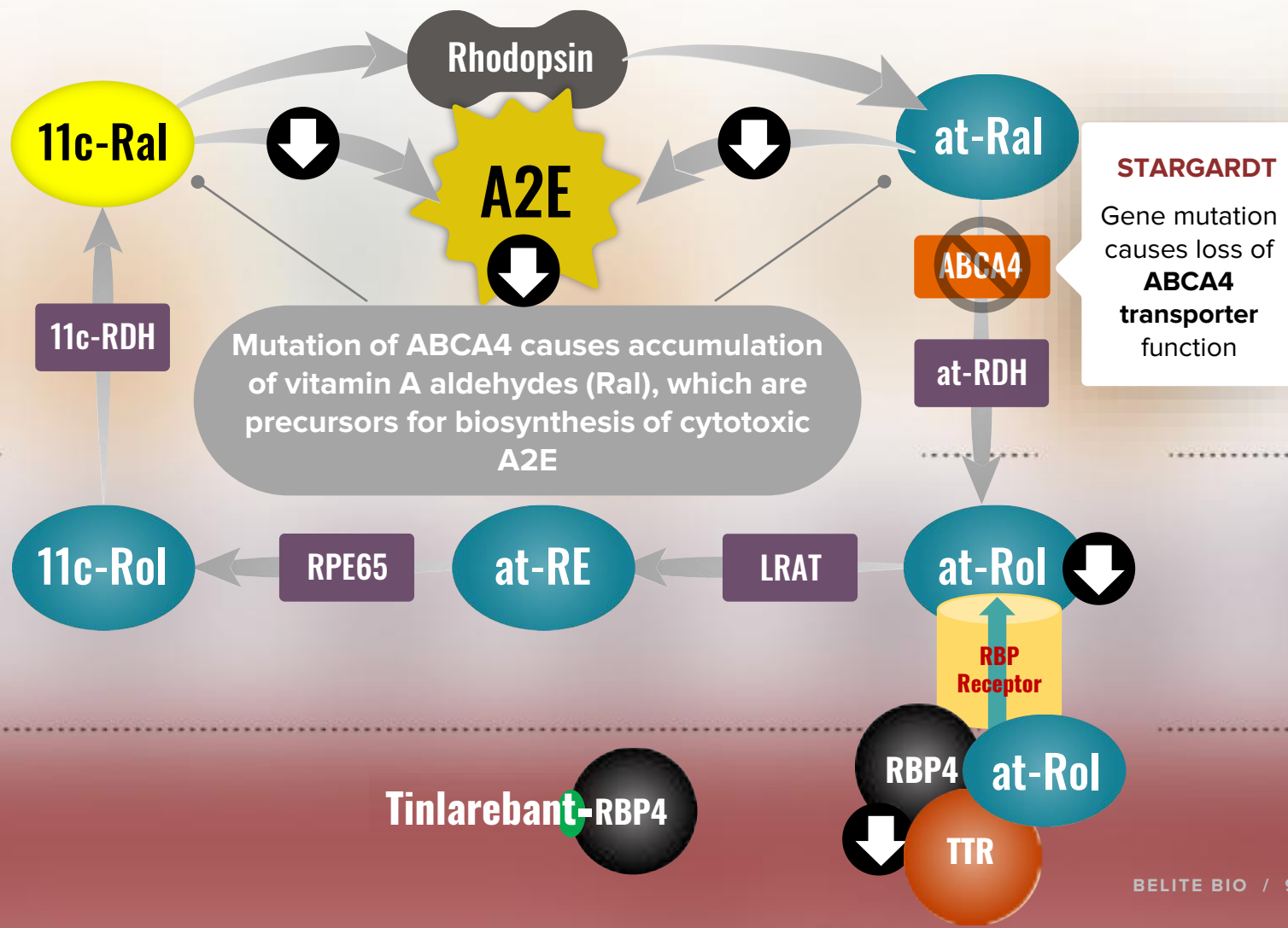
Mechanism of Tinlarebant Action



PHOTORECEPTORS (PR)

RETINAL PIGMENT EPITHELIUM (RPE)

BLOODSTREAM

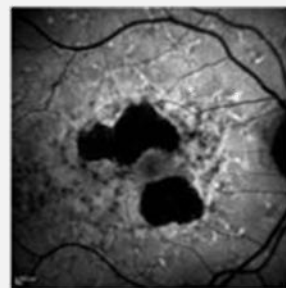


Similar Pathophysiology in STGD1 & Dry AMD

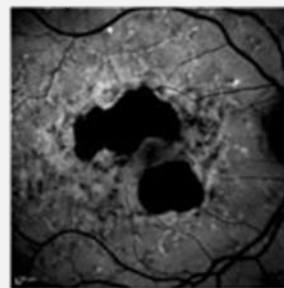


- **STGD1 and dry AMD share a similar pathophysiology** characterized by excessive accumulation of cytotoxic bisretinoids, retinal cell death, and loss of vision
- **Vision loss occurs slowly**, despite peripheral expansion of 'dead retina', until the disease reaches the center of the eye (the macula)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

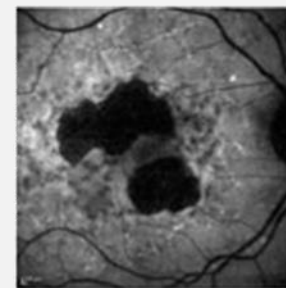
STGD1: LATE-ONSET (61-YEAR OLD FEMALE)



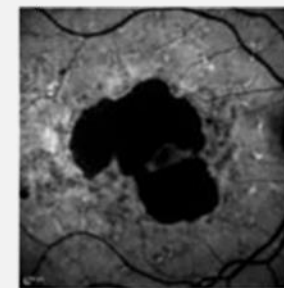
Baseline:
0.1 LogMAR



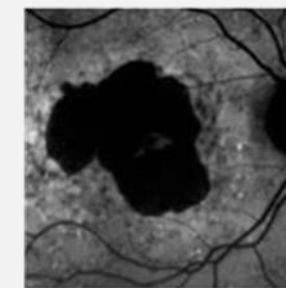
+12 Months:
0.1 LogMAR



+24 Months:
0.0 LogMAR

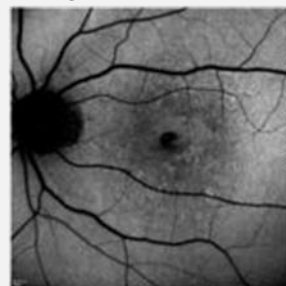


+36 Months:
0.1 LogMAR

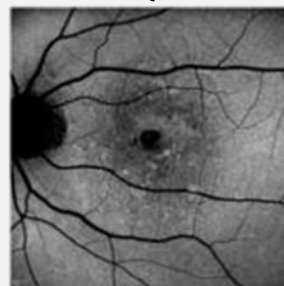


+57 Months:
0.5 LogMAR

Dry AMD: ADVANCED (73-YEAR OLD FEMALE)



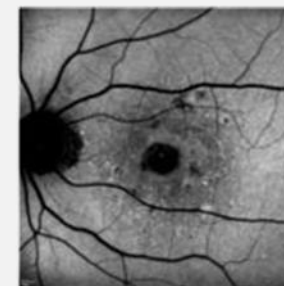
BL:
0.2 LogMAR



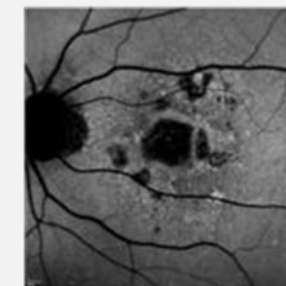
+12 Mo:
0.2 LogMAR



+ 24 Mo:
0.3 LogMAR



+ 36 Mo:
0.4 LogMAR



+55 Mo:
0.6 LogMAR



Fenretinide Proof-of-Concept Study

Reduction of RBP4 Slows Lesion Growth in GA Subjects

Sirion's Ph 2 Proof-of-Concept Fenretinide Study in GA Reinforces Tinarebant Potential



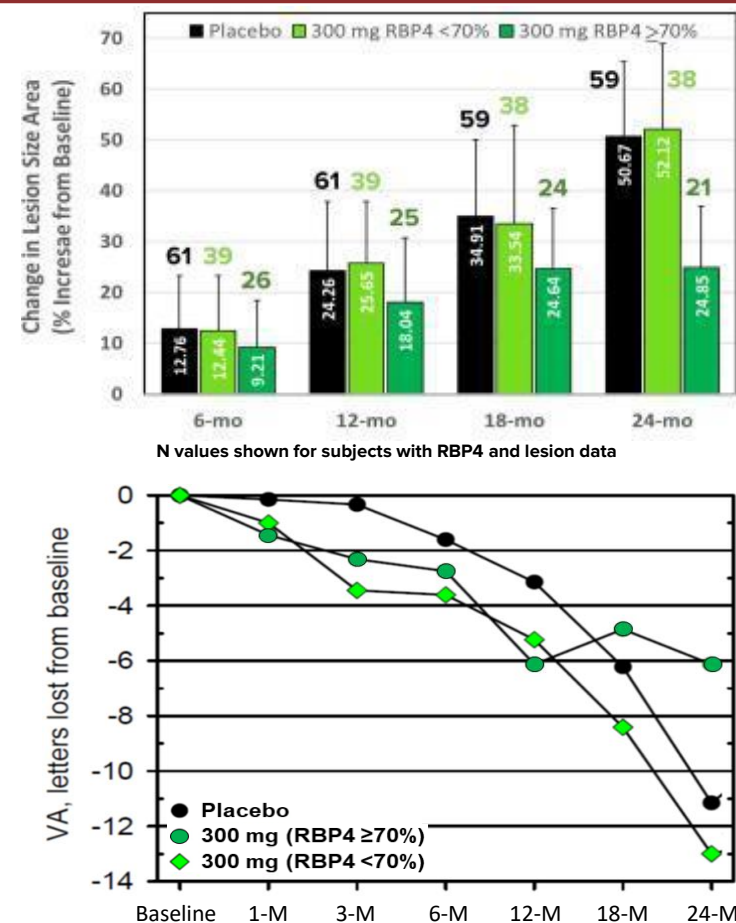
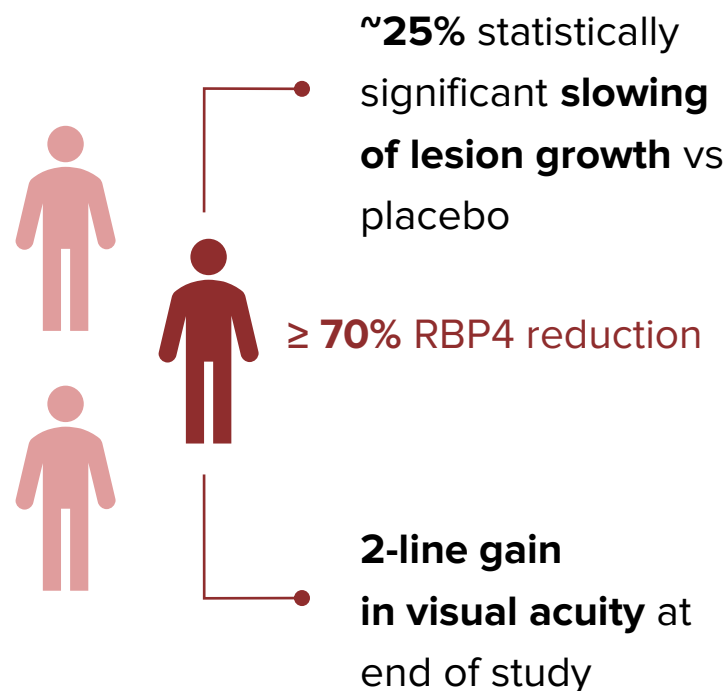
Fenretinide is a synthetic retinoid with **broad retinoid pathway capabilities**

- Developed as an anti-cancer drug
- Competing with retinol for RBP4 binding is a side effect

Tinarebant is designed to overcome the lower potency and limited bioavailability of fenretinide

Agent	Ki RBP4
Tinarebant	2 nM
Fenretinide	200 nM

Only **1 out of 3** subjects treated with 300 mg of fenretinide **achieved RBP4 reduction $\geq 70\%$** relative to baseline





STGD1 Clinical Trials



Clinical Trial Design Overview in STGD1

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

	STGD1 Phase 2 “LBS-008-CT02” <i>(Preliminary 24-Month Interim Data Available)</i>	STGD1 “Dragon” Phase 3*
Enrollment	13 subjects** (QDAF, no DDAF)***	104 subjects (have DDAF)
Sites	Australia & Taiwan	Global
Masking	Open Label	Double Blind
Placebo	N/A	2:1 ratio (Tinlarebant : Placebo)
Treatment duration	2 years	2 years
Primary measures	Safety & tolerability, optimal dose	Efficacy as measured through DDAF lesion growth rate, safety & tolerability
Other measures	DDAF, QDAF, BCVA, SD-OCT, microperimetry	QDAF, BCVA, SD-OCT, microperimetry
Interim analysis	Yes	Yes
Key inclusion criteria	12-18 years old, diagnosed STGD1 with at least one mutation identified in the ABCA4 gene	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 mm ²), a BCVA of 20/200 or better

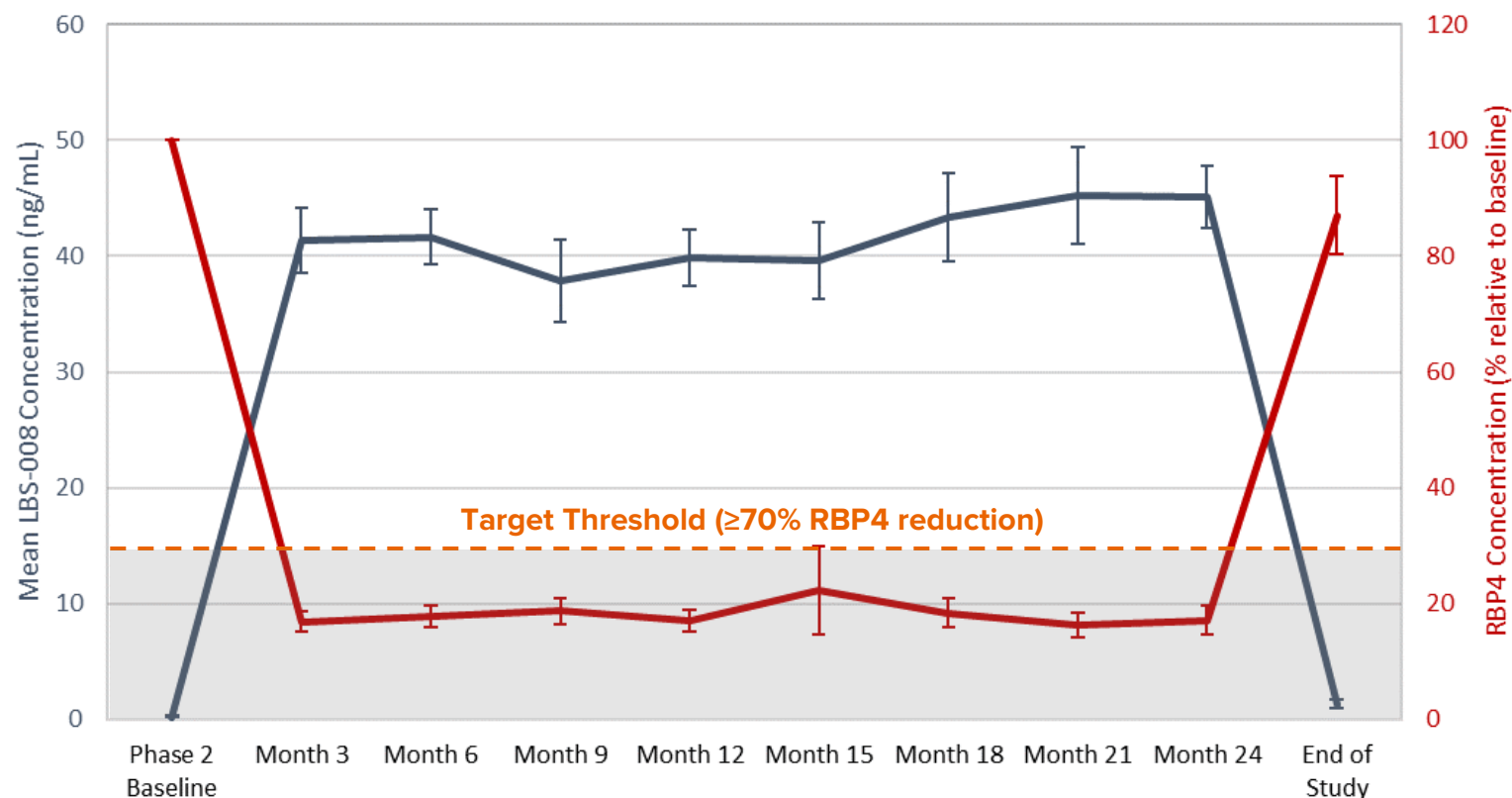
*FDA may require another clinical trial depending on the data from the ongoing Phase 3 study.

**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.

***DDAF = definitely decreased autofluorescence; QDAF = questionably decreased autofluorescence.



Ph2 24-month: Reduction of Plasma RBP4 Levels

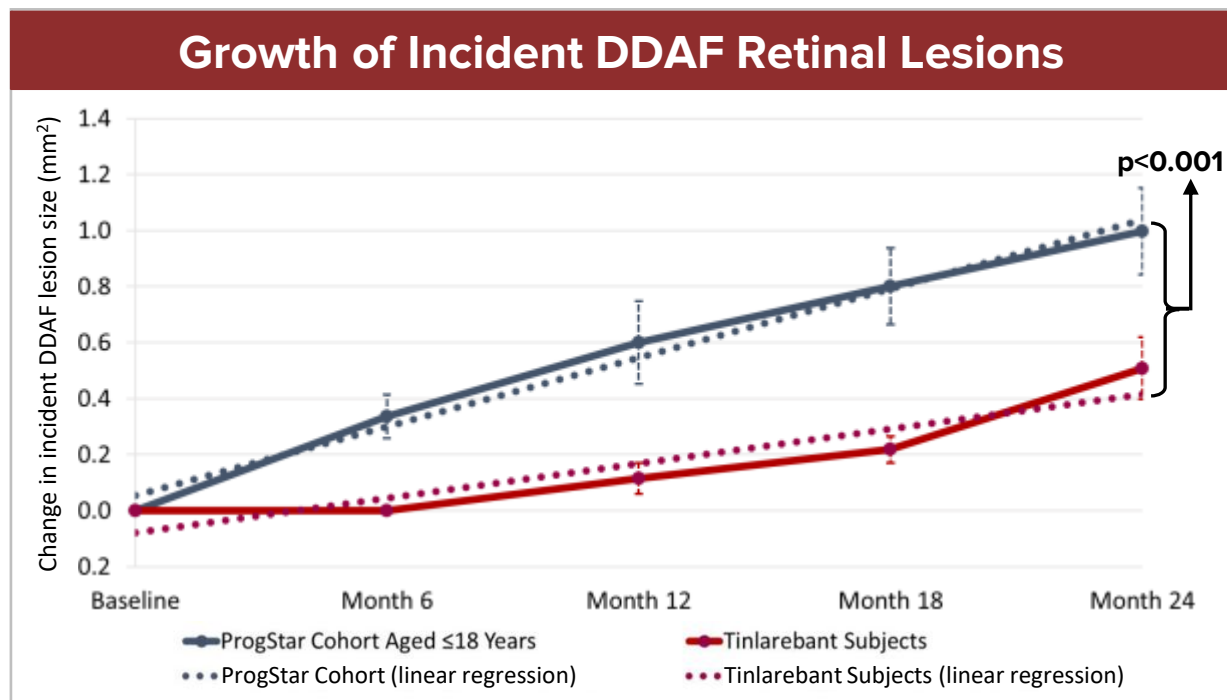


- The 5 mg daily dose was effective to reduce RBP4 level by a mean of approximately 80% relative to baseline
- RBP4 levels returned to 87% of the baseline value at End of Study (28-days following drug cessation)
- Recovery of RBP4 concentration correlated well with the decreased tinlarebant exposure

Ph2 24-month: Sustained Lower Lesion Growth Compared to ProgStar



- A comparison of incident DDAF lesion growth among ProgStar subjects with similar baseline characteristics as subjects in LBS-008-CT02 (i.e., ≤ 18 years old) was performed



	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 \pm 0.4 mm ²	1.00 \pm 1.3 mm ²

Note:

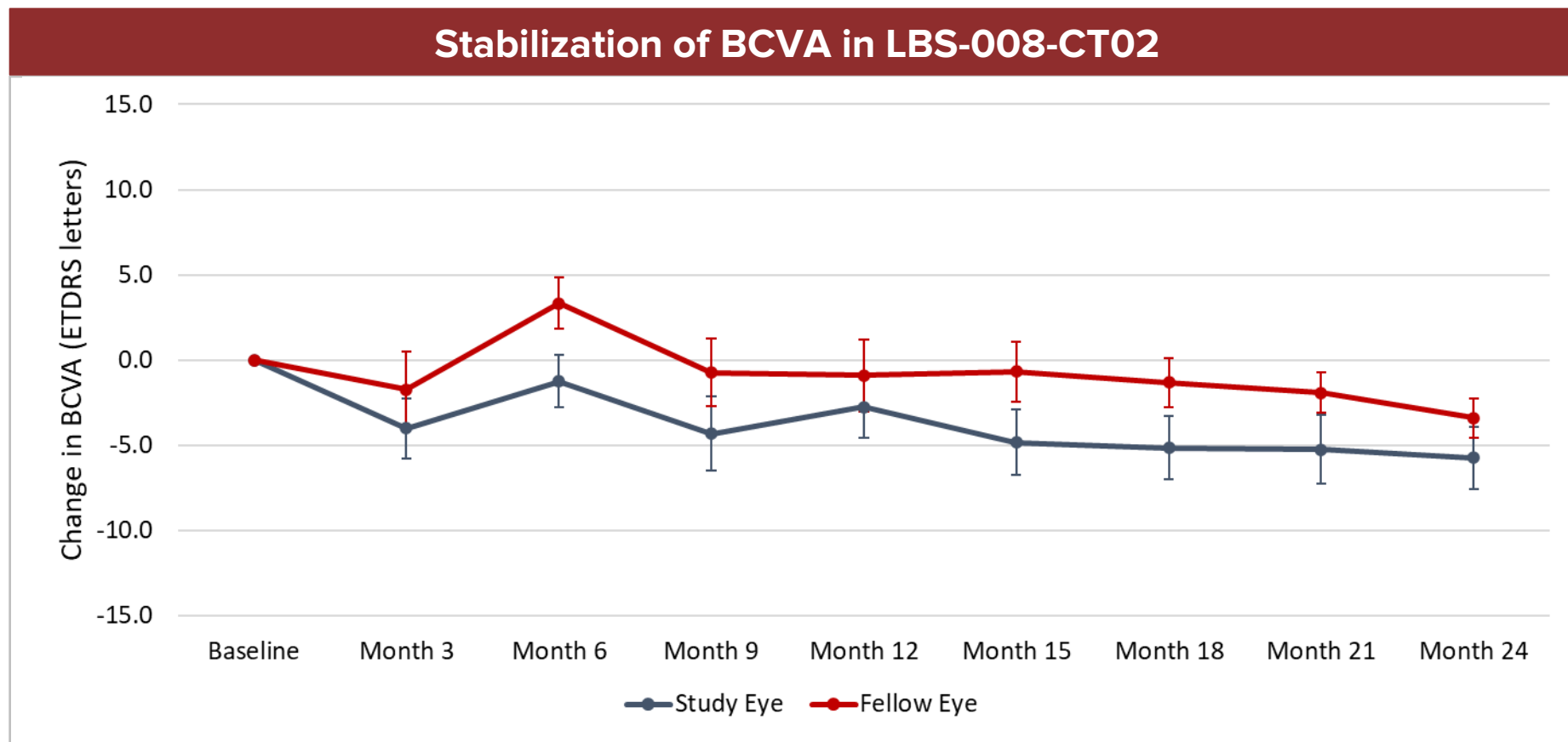
* Only 50 patients from ProgStar Cohort (aged ≤ 18) were included in the analysis due to one subject having ungradable screening FAF data

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 ($p < 0.001$)

Ph2 24-month: Visual Acuity Data



- **Visual acuity** was stabilized in majority of subjects during the study with a mean loss of **5 letters** following 24 months of treatment (a loss of <10 letters is not considered clinically significant)

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

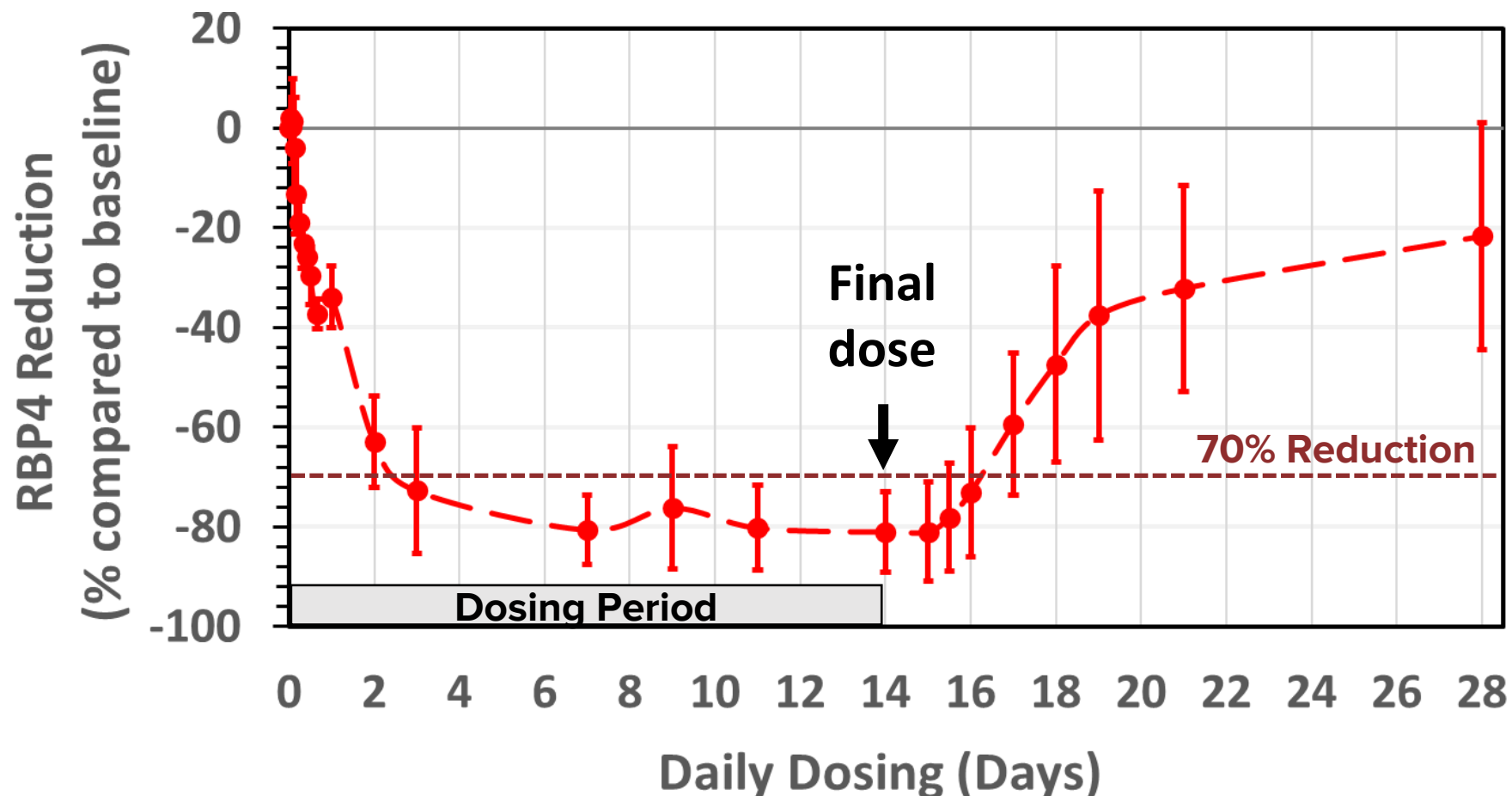


Phase 3 Geographic Atrophy



Tinlarebant: $\geq 70\%$ 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 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”*
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

*Additional Phase 3 study expected to be required prior to NDA filing



Thank you

For more info please visit: www.belitebio.com