

Disrupt Ophthalmology & change patients' lives.

















20 / 03 / 2023

Lack of compliance: **#1 unmet medical need** in Ophthalmology ()

IMPROVING THE EFFICACY OF EYE TREATMENTS



Prof. J.F. KOROBELNIK M.D., Ph.D. Most patients regularly forget about their eye drops, favoring disease progression

IRREVERSIBLE VISION LOSS

biophta



Frequent & unpleasont injections

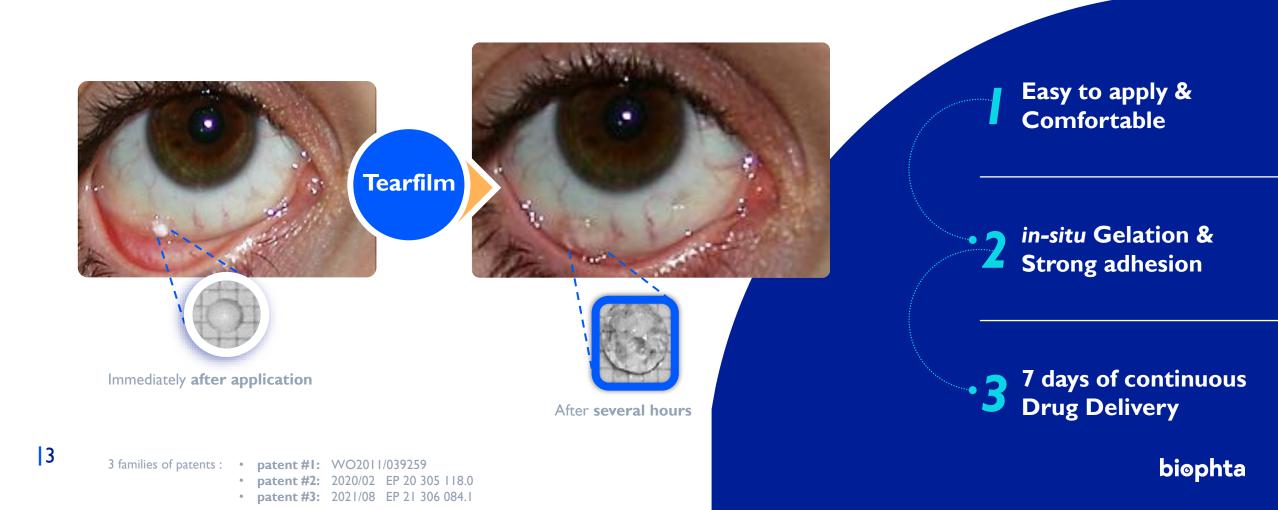
cause patients to cease treatment

45% do not adhere to their treatment ⁽²⁾

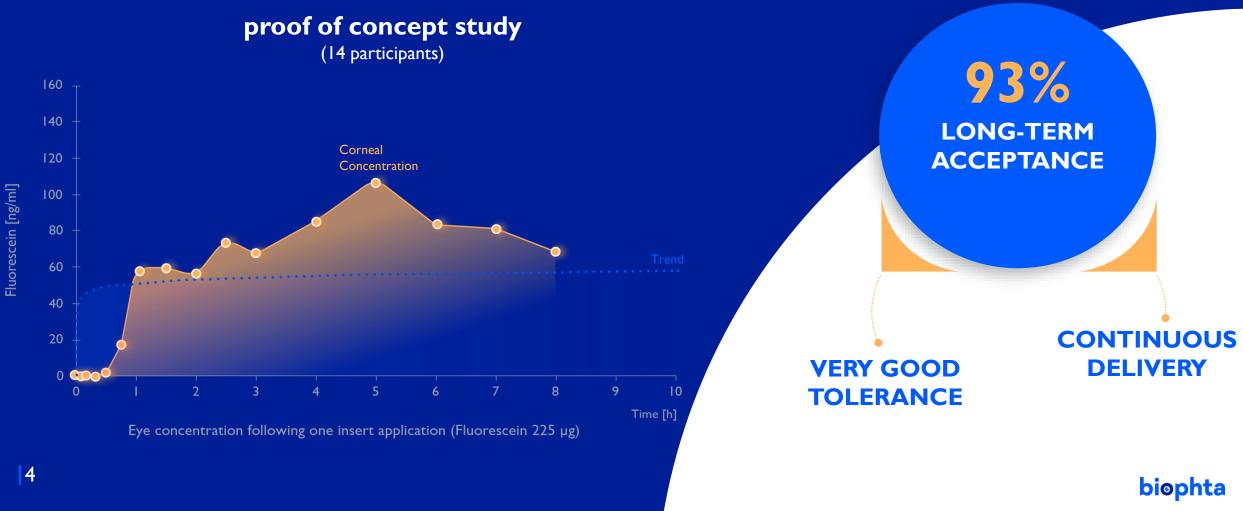
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Developing a new standard of care for ocular diseases

BREAKTHROUGH BIOPOLYMERS TECHNOLOGY THAT RELEASES DRUGS ON THE EYE



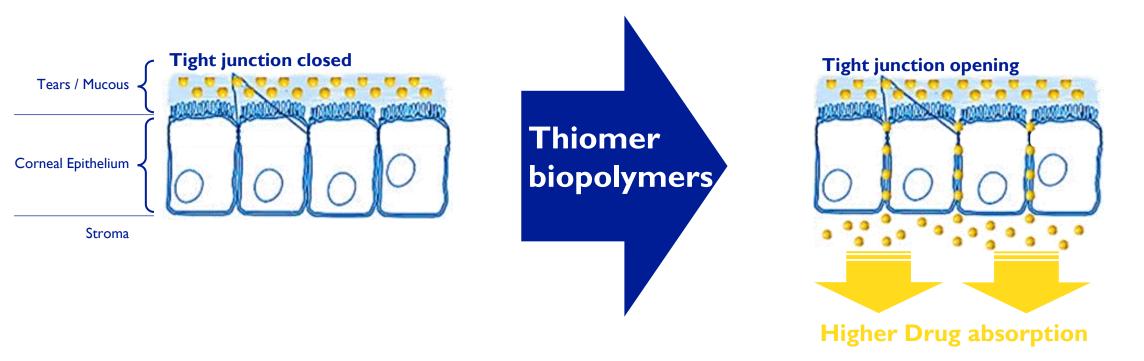
Our biopolymer inserts provides a sustained release of drug



Source: research by Hornof et al.

Topical treatment for treating retinal diseases

ENHANCED DRUG PERMEATION THROUGH THE EPITHELIUM

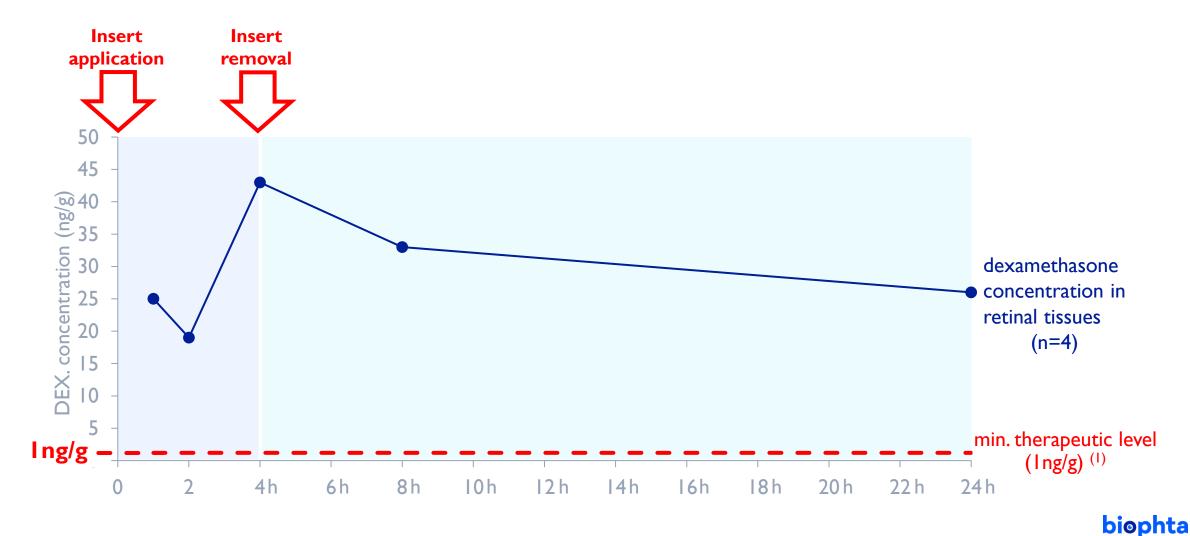


Increased Drug penetration boost the build-up of a Drug concentration gradient :

Greater Drug concentration for treating the back-of-the-eye

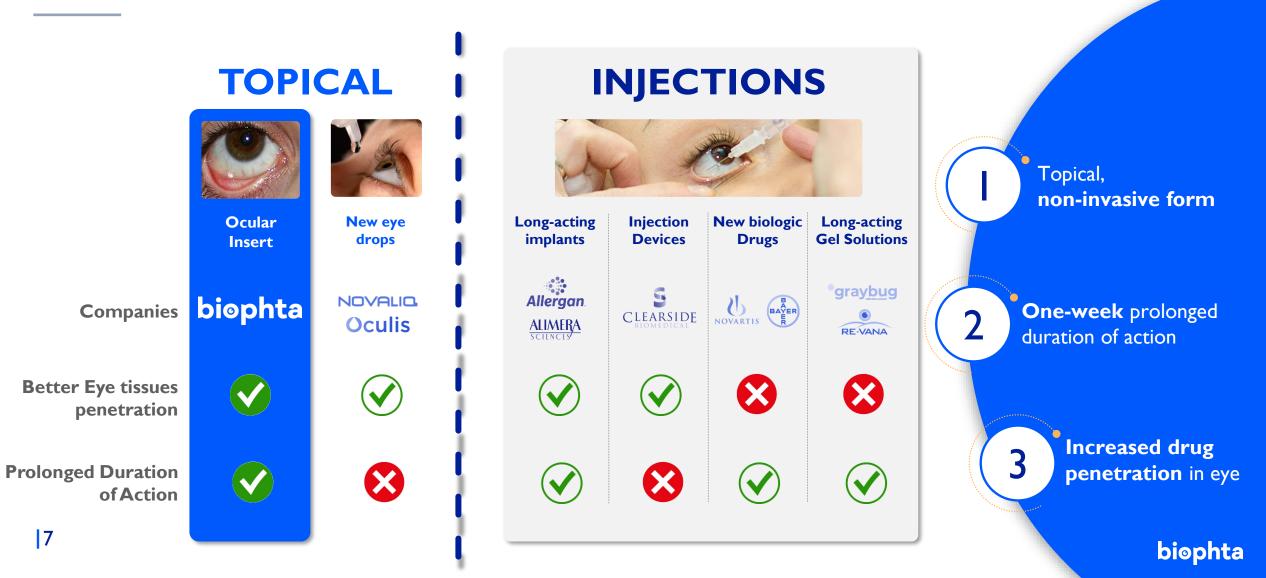
Insert quickly creates a therapeutic level at retina

DEXAMETHASONE PHARMACOKINETIC 24H EXPLORATORY STUDY



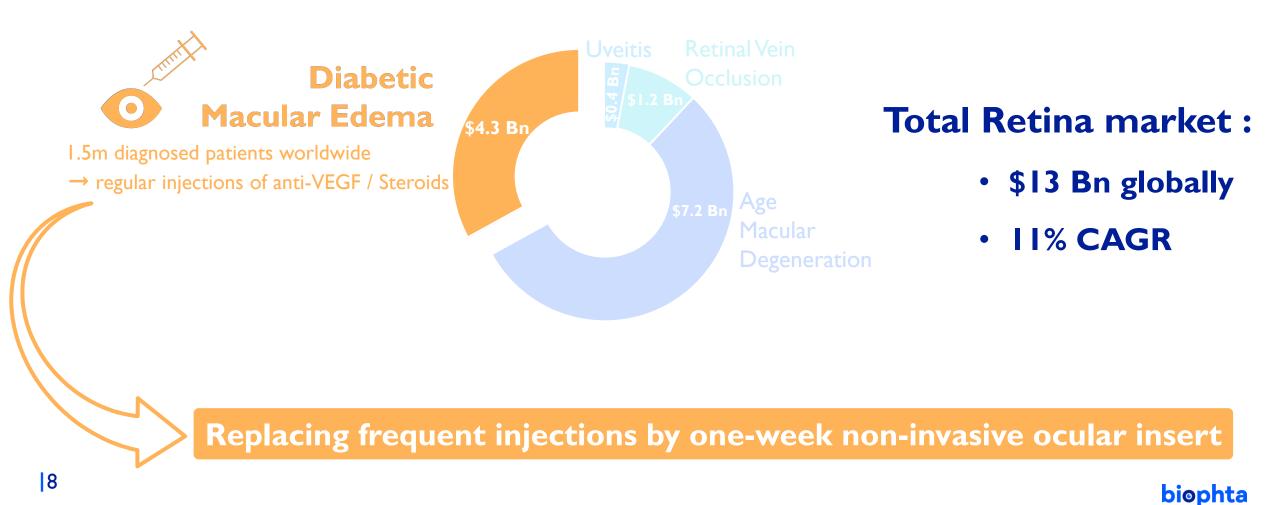
The only topical treatment to generate a superior outcome

THE FIRST ONE-WEEK SUSTAINED RELEASE & NON-INVASIVE TREATMENT



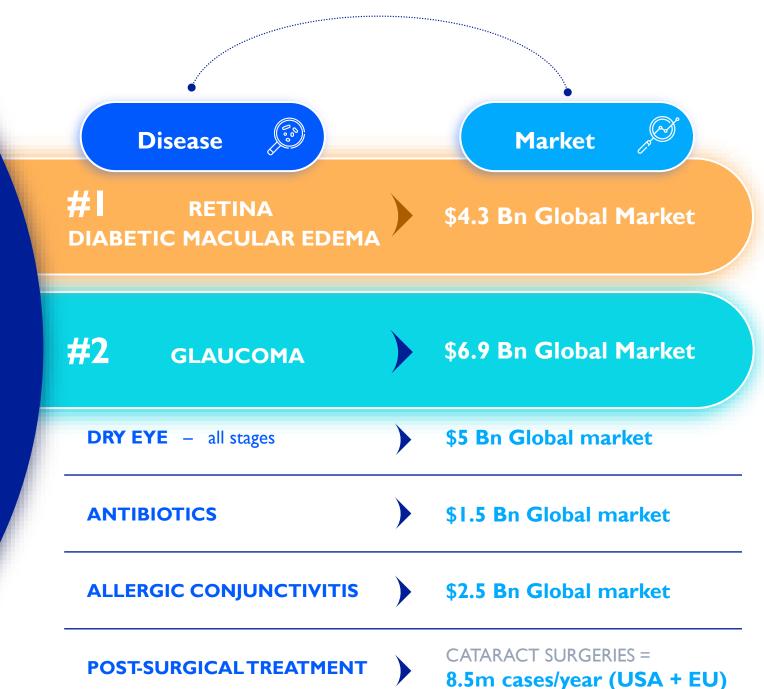
Retina : a disruptive non-invasive therapy for DME

TOPICAL TREATMENT OF DIABETIC MACULAR EDEMA



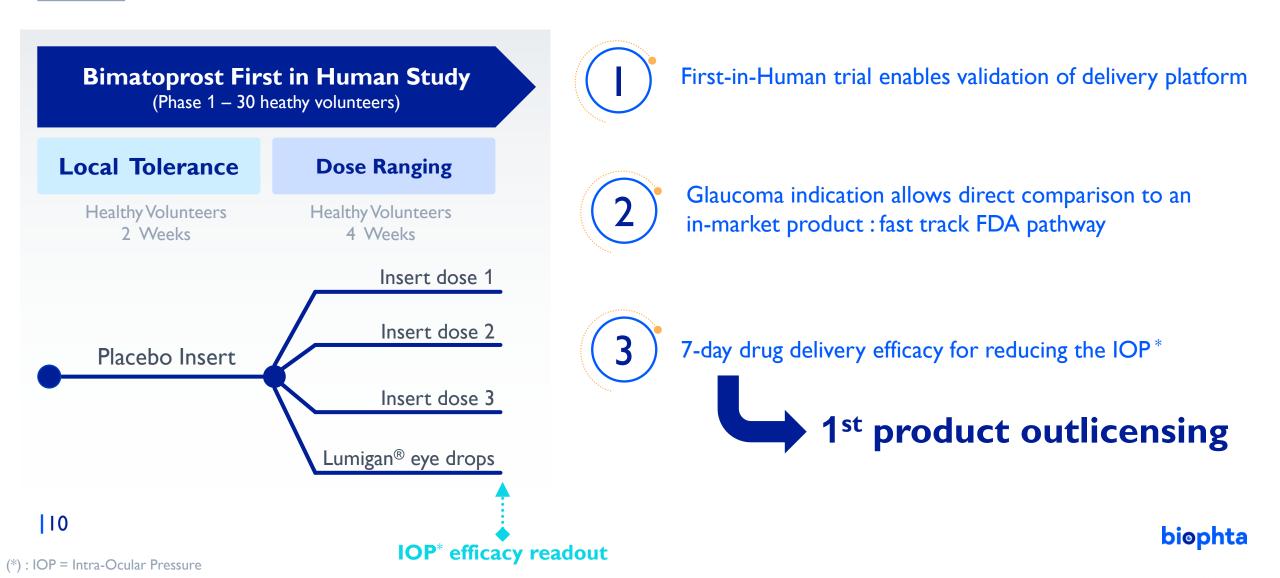
Our drug delivery platform has the ability to be used in multiple treatments.

ONGOING DISCUSSIONS WITH 5 OPHTHA. PHARMA COMPANIES.



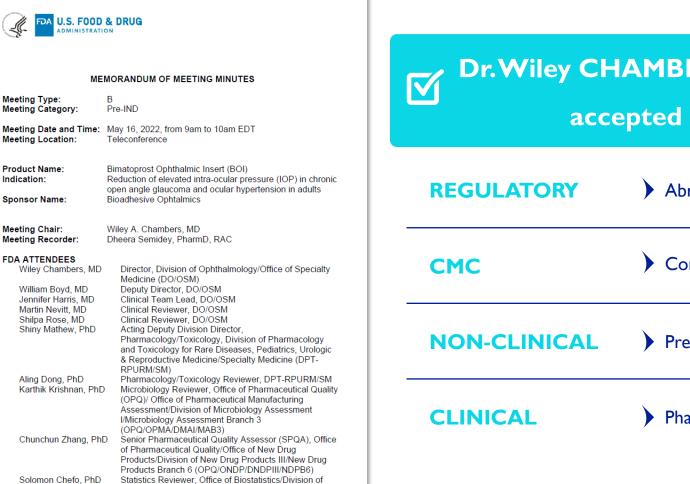
Why start with Glaucoma ?

ABRIDGED DEVELOPMENT PATHWAY ALLOWS PHASE 1 STUDY ALREADY IN 2024



The FDA has validated our roadmap

POSITIVE FEEDBACK DURING pre-IND MEETING IN MAY 2022



Indication:

Biometrics IV (OB/DBIV)

Dr. Wiley CHAMBERS – FDA, head of ophthalmology accepted **BIOPHTA's** plan for:

REGULATORY	Abridged registration pathway
СМС	• Control strategy for the drug & Thiomer biopolymer
NON-CLINICAL	Preclinical trials & NC plan for Phase 1 study authorization
CLINICAL	Phase 1 First-in-Human study design & overall clinical plan

BIOPHTA 3-step strategy



ASO – topical Gene therapy

• Vectorization of Antisens Oligonucleotides (ASO) for the treatment of retinal inherited diseases



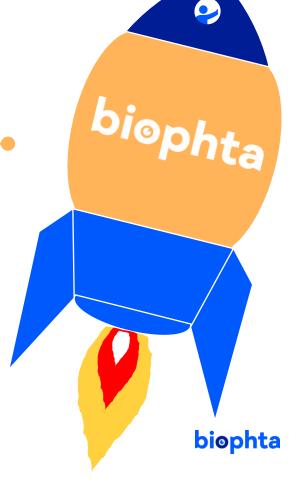
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Retina – replacing intraocular injections

First self-applied treatment allowing one-week of sustained Drug release



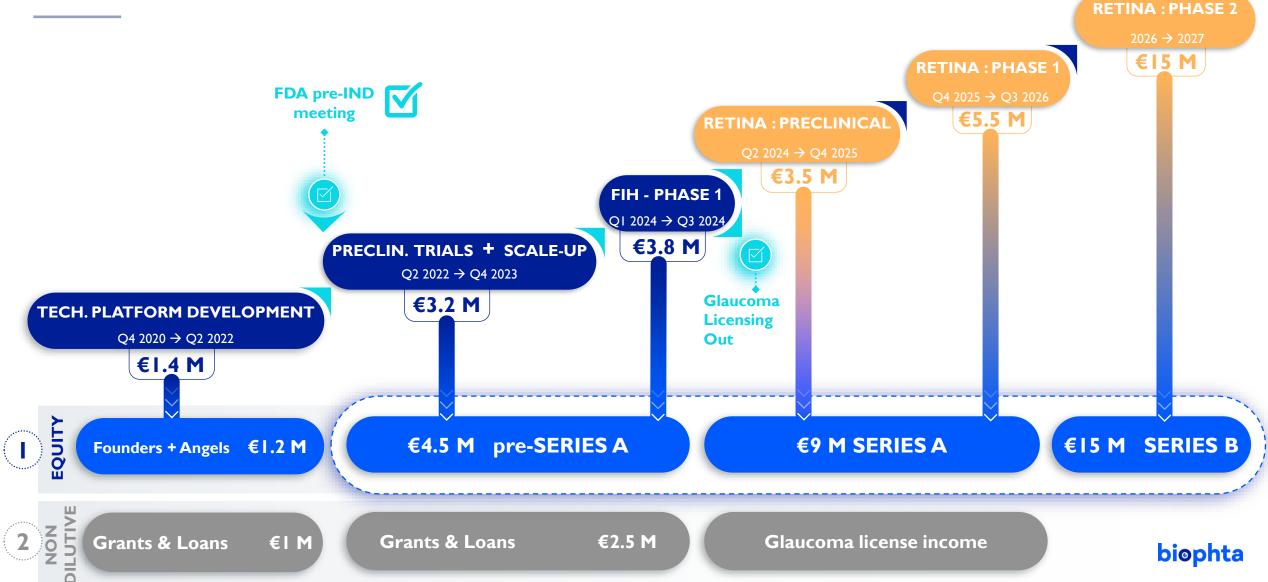
• 7-Days continuous treatment enables an accelerated pathway to First-in-Human



step

Financing phased on our R&D program needs

OUR FINANCING WILL BALANCE NON-DILUTIVE AND EQUITY FINANCING



Multi competent team developing game changing technology

HIGHLY COMPLEMENTARY CO-FOUNDERS





Over 15 years experience in ophthalmology, excellent understanding of the market, challenges and players in eye pharmaceuticals. Several experiences of general management for building and steering compagnies provided him the required expertise for this venture.

Former biopharmacy researcher (University of Strasbourg & Monash University) followed by more than 15 years developing new drugs in the industry. His professional background gave him the experience of industrializing complex manufacturing processes to GMP grade.

NextPharma

Dr. JEAN CUINÉ

co-Founder & CTO

U NOVARTIS

ACADEMIC PARTNERS



Founded by Prof. José SAHEL, leading European research center on eye and retinal diseases. INSERM – CNRS



Research team specialized in biopolymers chemistry and galenic formulation.



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TRANSFORM OPHTHALMOLOGY

CHANGE PATIENTS LIVES

Unique noninvasive insert 7 days of continuous Drug Delivery

A platform addressing a \$30 Bn market

2

€4.5 M To achieve First in Human Study

3

info@biophta.com