Enabling R&D of New Drugs in Ophthalmology



The Ophthalmic Platform of TriApex consists of multiple teams supporting nonclinical and clinical efficacy and safety assessment in drug R&D. Our scientific team members, project operation experience, state-of-the-art instruments, large-scale NHP population and quality control system, enable us to help the rapid translation of innovative ophthalmic drug molecules into clinical application.

Integrated Ophthalmic Platform and Capability

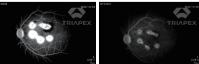


Ophthalmic disease models (mouse, rabbit, dog, monkey, etc.) Nonclinical safety assessment of ophthalmic drugs Ophthalmic pharmacokinetic and toxicokinetic analysis (all tissues of eye) Ophthalmic pathology analysis Ophthalmic clinical trials (phase I-III) Ophthalmic drug registration Ophthalmic clinical sample analysis

Ophthalmic Disease Model

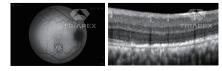
- · Choroidal neovasularization
- · Retinal neovascularization
- ·Long-term vascular leakage
- · Dry age-related macular degeneration
- $\cdot\,\mathsf{Blue}$ light induced retinal pigment epithelial atrophy
- ·Blue light-induced geographic atrophy
- ·Corneal neovascularization
- · Dry eyes
- · Diabetic retinopathy
- \cdot Myopia / farsightedness / presbyopia
- \cdot Ocular hypertension / glaucoma
- ·Spontaneous cataract
- · Pterygium
- · Proliferative vitreoretinopathy
- ·Retinal vein occlusion

Laser-induced CNV model





Blue light-induced geographic atrophy model



Long-term vascular leakage model







Pre (Week 8 post Week 2 post IVT IVT DL-AAA) placebo

Week post IVT placebo







Pre (Week 8 post W IVT DL-AAA)

Week 2 post IVT Week 8 post IVT 2mg Eylea 2mg Eylea

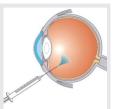
Avastin treatment Pre (IV

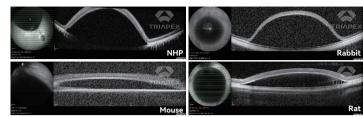
Ophthalmic Technology, Operation, Expertise and Quality

Ophthalmic Administration

· Eye drop

- ·Subconjunctival injection
- ·Anterior chamber injection
- ·Intravitreal injection
- ·Subretinal injection
- ·Suprachoroidal injection





Ophthalmic Examination

·Slit lamp

- · Ophthalmoscopy
- ·Ocular pressure
- (awake or anesthetized animals)
- · OCT
- · OCTA
- · Fundus photography
- · Fundus angiography
- ·Electroretinography (ERG)
- ·A/B ultrasound
- ·Optical biometry
- · Pupillometer
- · Dry eye detector device



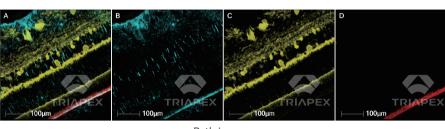




Diagnosys Espion D315

Ophthalmic Pathology Analysis

- · Eyeball fixation and trimming (e.g. laser spots)
- ·Histopathologic examination
- ·Immunohistochemical staining of cells
- · Imaging analysis and quantitative analysis



Path images

Ophthalmic Nonclinical Safety Assessment

- · Professional ophthalmic experts with 20+ years of industry experience
- · Mastering diverse methods of intraocular administration (IVT, SRI, SCS, etc.)
- · Experienced in evaluation of different types of ophthalmic drugs (small molecule, antibody, gene therapy, siRNA, etc.)
- · Capable of performing GLP-certified studies in compliance with NMPA/FDA/OECD GLP regulations

Ophthalmic Clinical Study

- ·Supporting phase I-III ophthalmic clinical trials and regulatory affairs
- · Extensive clinical project experience covering various ophthalmic drugs
- · Established deep and stable collaborations and partnerships with high-level hospitals and enterprises
- ·Working with nonclinical team to accelerate nonclinical to clinical translation



TRIAPEX LABORATORIES CO., LTD.

- An innovative CRO enabling disease-oriented R&D
- 🚓 www.tri-apex.com
- 🔀 BD@tri-apex.com
- +86 25 5819-6588 2.00
- 9 No. 9 Xinglong Road, Jiangbei New Area, Nanjing, Jiangsu, China, 211800