

**OCULAR CAPABILITIES**

Our global team of industry-leading scientists employ a variety of state-of-the-art techniques and imaging modalities to investigate the pharmacodynamics (PD), pharmacokinetics (PK) and safety of novel compounds targeted to treat ocular diseases.

Corneal neovascularization, choroidal neovascularization, cataract, glaucoma, and dry eye models are currently available from JOINN (China). Biomere (USA) has a variety of ocular models under development and has interest in collaborative model development on new and unique ocular models. Our combined preclinical and clinical research experience distinctively positions us to support our clients’ nonclinical ophthalmic needs.

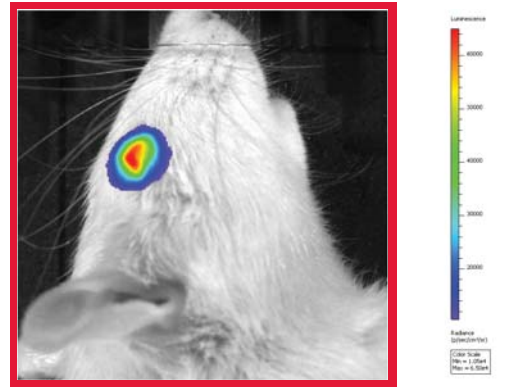
ASSESSMENT	SPECIES	EQUIPMENT
Slit-lamp/anterior segment	Mouse, rat, rabbit, NHP	Kowa handheld slit-lamp, Topcon slit-lamp, Leica surgical scope
Indirect ophthalmoscope/fundus	Mouse, rat, rabbit, NHP	Keeler indirect, Volk PictorPlus
Optical coherence tomography (OCT)	Mouse, rat, rabbit, NHP	Heidelberg Spectralis OCT +HRA
Electroretinogram (ERG)	Rabbit, NHP*	Diagnosys Espion
Intra ocular pressure (IOP)	Rabbit, NHP*	Tonovet
Gene expression	Mouse and rat (rabbit and NHP ex vivo)	IVIS Spectrum

\*mouse and rat coming soon

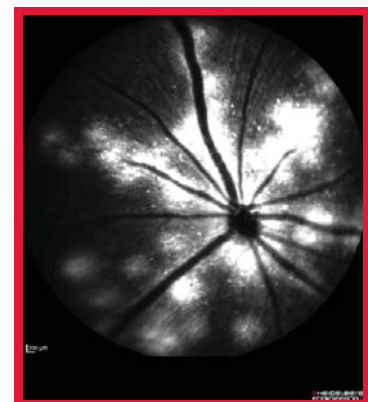
COMPREHENSIVE DOSING TECHNIQUES	SPECIES
Topical eye	Mouse, rat, rabbit, NHP
Intravitreal injection	Mouse, rat, rabbit, NHP
Subretinal injection	Mouse, rat, rabbit, NHP
Subconjunctival injection	Mouse, rat, rabbit, NHP
Intracameral injection	Mouse, rat, rabbit, NHP
Suprachoroidal	Rabbit, NHP
Systemic delivery including oral, subcutaneous, intraperitoneal, intrathecal, intratracheal, and intravenous	Mouse, rat, rabbit, NHP

\*\*Ocular models (such as corneal neovascularization, choroidal neovascularization, cataract, glaucoma, and dry eye) currently available with our partner, JOINN, in China. Biomere aims to bring some ocular models in-house by end of this year and is always open to collaboration on new or unique models. \*\*

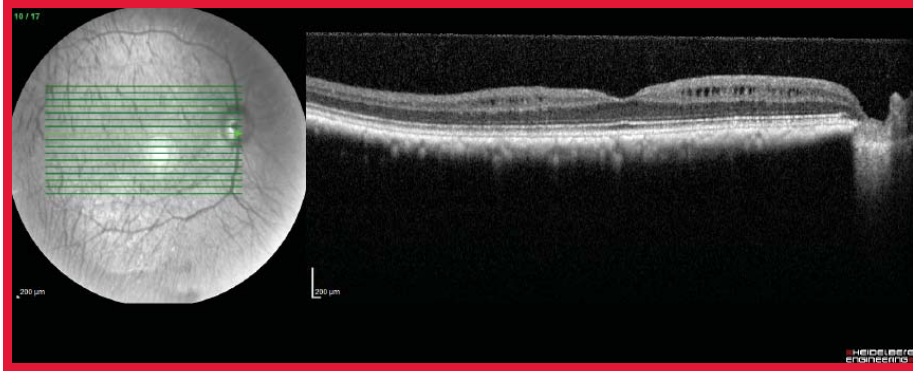
**EXAMPLE OF IVIS USE IN A RAT EYE**



**AUTO-FLORESCENCE AFTER GENE THERAPY IN A MOUSE EYE**



**OCT OF AN NHP WITH INTRARETINAL CYSTS**



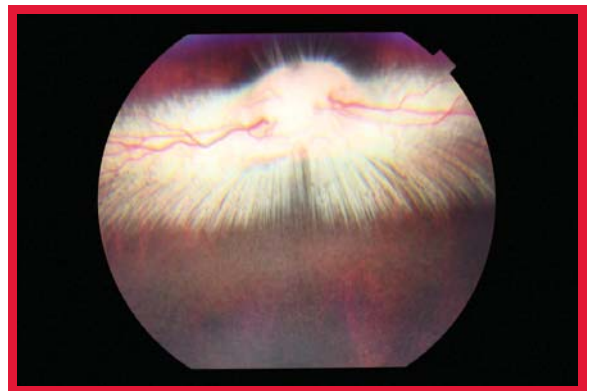
**COLOR FUNDUS OF A NORMAL NHP EYE**



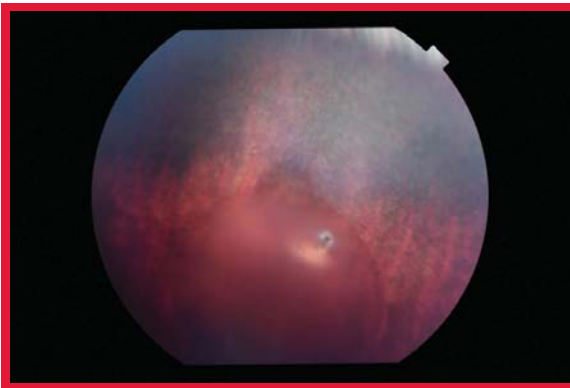
**FLUORESCIN ANGIOGRAPHY OF A NORMAL NHP EYE**



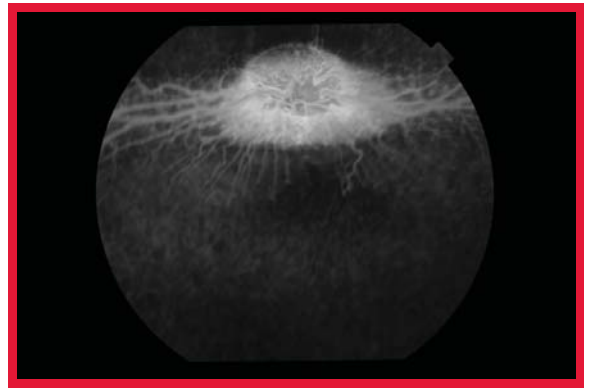
**COLOR FUNDUS OF A NORMAL RABBIT EYE**



**COLOR FUNDUS POST-SUBRETINAL INJECTION IN A RABBIT EYE**



**FLUORESCIN ANGIOGRAPHY OF A NORMAL RABBIT EYE**



## **IT'S PERSONAL.**

Driven to expedite your journey.



**"I have dedicated my career to understanding the eye, with experience at every level of ophthalmic study design and execution. Alongside a team of scientists with more than five decades of ocular experience, we deliver quality data with the highest attention to detail and care."**

**- Laura B., Director of Ophthalmology**