Laser Induced Choroidal Neovascularization Model

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Type of Model
Induction of CNV

Test System
Rodent, Minipigs

Time
1-14 days to establish model

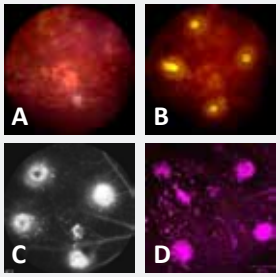
Study Purpose

Evaluate efficacy and safety of pharmaceuticals designed to treat Choroidal Neovascularization (CNV) in rodents and minipigs.

Deliverables

Observations of changes in ocular structures using:

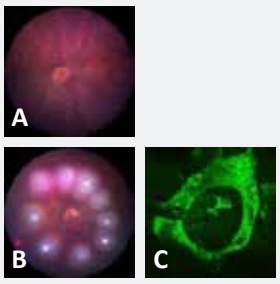
- Slit lamp biomicroscopy
- Indirect ophthalmoscopy
- Color fundus photography
- Fluorescein angiography
- Optical coherence tomography (OCT)
- Electroretinography (ERG)
  - *Quantifiable readouts for CNV analysis*
  - *Tissue harvest and histopathological analysis (optional)*



4 Laser Spots

Model Description

- Choroidal neovascularization is induced by breaking Bruch's membrane using 532nm laser, 250mV for 100ms
- Treatment can be prophylactic or post induction
- Study duration: up to 2 weeks
- Common test article dose route: Intravitreal & subretinal injection



9 Laser Spots

Benefits

- All animals are prescreened for ocular abnormalities using the modified Mcdonald Shadduck scoring system
- Advanced imaging equipment and expertise in-house to perform all evaluations on-site
- Reliable and reproducible results
- Develop novel treatment strategies for CNV
- Extensive expertise conducting laser CNV model

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