

Efficacy & Proof of Concept studies in Ophthalmology



Disease	Animal model			Hyperinsulinemia and insulin resistance	Hypoinsulinemia	Hyperglycemia and increase in Hemoglobin A1C	IOP increase	Fluorescein angiography (FA)	Optical coherence tomography (OCT)		Electroretinography (ERG)		RGC loss	Retinal cell death	Axonal transport deficits	Retinal neuroinflammation
								BRB breakdown	Bruch's membrane rupture	Retinal thinning	RGC dysfunction	Retinal dystrophy				
DIABETIC RETINOPATHY	Prediabetic animal model	Rat	Administration of high sucrose concentration in water	X						X						
	Type 1 diabetes animal model	Rat and mice	Intraperitoneal injection of streptozotocin			X		X		X				X		X
		Mice	Ins2Akita		X	X		X		X				X		X
GLAUCOMA	Ocular hypertension model	Rat	Chronic IOP elevation by laser photocoagulation of limbal and episcleral veins				X			X	X	X	X	X	X	X
	Transient retinal-ischemia model	Rat	Acute IOP elevation (ischemia) followed by reperfusion							X	X	X	X	X	X	X
	DBA/2J model (spontaneous glaucoma)	Mice	Chronic IOP elevation due to iris pigment dispersion and atrophy				X			X	X	X				
AGE-RELATED MACULAR DEGENERATION (AMD)	Model for non-exudative form (dry AMD)	Rat	Light-induced retinal damage							X		X		X		X
	Model for neovascular form (wet AMD)	Mice	Laser-induced choroidal neovascularization					X	X					X		X

BRB: blood-retinal barrier; IOP: intraocular pressure; RGCs: retinal ganglion cells

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Our team is looking forward to meeting you and discussing the most efficient way to achieve your program goals

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