

Helga Kecova DVM, PhD

Specialty: Comparative Ophthalmology

Research Scientist - Department of Veterinary Clinical Sciences, Iowa State University, Ames, IA;
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Campus Address

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Education

- DVM, Veterinary and Pharmaceutical University Brno, Czech Republic
- PhD (Small animal surgery and ophthalmology), Veterinary and Pharmaceutical University Brno, Czech Republic

Post Graduate Education

- Postdoctoral Research Fellow, Iowa State University

Professional Affiliations

- Association for Research in Vision and Ophthalmology

Research Interest

- Risk factors in the pathogenesis of optic nerve and retinal diseases
- ISCEV and pERG electroretinogram in diagnosing retina and optic nerve abnormalities
- Correlation of retinal structure and function using optical coherence tomography and electrophysiology

Current Projects

- Use of intravitreal neurotrophic growth factors for treatment of glaucoma, compressive optic neuropathy, and laser-induced retinal damage
- Functional and structural optic nerve changes in a canine model of hereditary primary glaucoma
- Functional and structural optic nerve changes in a canine model of compressive optic neuropathy
- Functional and structural optic nerve changes in a canine model of laser induced retinal damage
- Use of high frequency ultrasound for early detection of irido-corneal angle abnormalities in primary glaucoma
- Cholinergic drug based neuroprotective strategies for glaucoma and ischemic optic nerve diseases