

Elena Hernandez-Merino, DVM, MPhil

Specialty: Comparative Ophthalmology

Postdoctoral Research Fellow - Department of Veterinary Clinical Sciences,
Iowa State University, Ames, IA.

US Veterans Administration Center for Prevention and Treatment of Visual Loss,
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Education

- DVM, National Autonomous University of Mexico (UNAM), Mexico City, Mexico
- Master of Philosophy, University of Cambridge, Cambridge, UK

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