



## Feline Model of Glaucoma

**WARF: P110032US01**

Inventors: Gillian McLellan, Matthew Ellinwood, Markus Kuehn

**The Wisconsin Alumni Research Foundation (WARF) is seeking commercial partners interested in developing a spontaneously occurring, “large-eye” model of human glaucoma.**

### Overview

Glaucoma, the second leading cause of blindness in the United States, is an eye disease that results in optic nerve damage and loss of vision. However, few large-eyed models of spontaneous glaucoma exist, hindering efforts to develop strategies for treating and managing this disease.

### The Invention

Researchers have identified a strain of cats with congenital glaucoma. They have captured the disease in a viable, outbred breeding colony with a highly informative pedigree. Results of molecular genetic and rigorous clinical and histopathologic studies confirm that the disease represents a homologue to a form of glaucoma in humans due to a mutation in LTBP2.

### Applications

- Glaucoma research
- Development of novel glaucoma management strategies

### Key Benefits

- Provides a spontaneously occurring, large-eyed model of human glaucoma
- Requires no external intervention to induce disease
- Cats are a long-lived species with eyes of comparable size and physiology to that of humans and have well-characterized visual systems.
- Model is well-characterized.
- Model is amenable to noninvasive imaging and electrophysiological studies, allowing assessment of disease progression *in vivo*.

### Additional Information

#### For More Information About the Inventors

- [Gillian McLellan](#)

#### Tech Fields

- [Research Tools : Animal & disease models](#)

For current licensing status, please contact Jennifer Gottwald at [jennifer@warf.org](mailto:jennifer@warf.org) or 608-960-9854