**Pathogenesis of Ocular Immunologic and Inflammatory Disorders**

**Research emphasis:**
In the Laboratory of Ocular Immunology, Toxicology, and Drug Delivery, we study the pathogenesis of ocular immunologic and inflammatory disorders and have developed innovative methods to treat these potentially blinding diseases. We have been especially interested in sustained drug delivery, immunomodulation through gene therapy, and ocular pharmacology and toxicology. We study the two main causes of blindness in horses in the southern United States, equine recurrent uveitis and fungal keratitis. We are also interested in studying these naturally-occurring diseases, since they are models of common human diseases.

**Application:**
- Ocular inflammation / uveitis
- Immune-mediated ocular disease
- Ocular drug delivery
- Ocular toxicology

**Collaboration potential:**
- Ocular models
- Clinical trials
- Ocular devices
- Gene therapy applications

**Selected publications:** (limit 4)


