

Richard J. McMullen Jr., Dr. med. vet.

**Diplomate, American College of Veterinary Ophthalmologists
Diplomate, European College of Veterinary Ophthalmologists
Certificate of Additional Qualifications – Equine Ophthalmology (Germany)**

Bibliography:

Original Works in Peer-Reviewed Journals

- Owens CD, Michau TM, Boorstein J, Wynn ER, McMullen Jr RJ. Keratometry, biometry, and prediction of intraocular lens power in the adult tiger (*Panthera tigris*). *American Journal of Veterinary Research* **2021**. Accepted – AJVR-21-04-0060.R1 (**co-author**)
- Hefner E, Cole R, Lin HC, Moore PA, **McMullen Jr RJ**. Comparison of the image quality from optical coherence tomography of the equine cornea and retina using sedation and general anesthesia protocols with or without the use of retrobulbar anesthesia. *American Journal of Veterinary Research* **2021**. Accepted – AJVR-21-02-0029.R1 (**corresponding author**)
- Charnock L, Keys D, **McMullen Jr RJ**. Clinical findings associated with blunt force ocular trauma in horses. *Veterinary Ophthalmology* **2021**. Accepted – VOP-20-11-2527.R3 (**corresponding author**)
- Makra Z, Csereklye N, Matas Riera M, **McMullen Jr RJ**, Veres-Nyéki K. Ocular pain scoring and comparison of intravenous flunixin meglumine, phenylbutazone, and acupuncture on ocular pain relief in the horse: a pilot study. *Journal of Equine Veterinary Science* **2021**;98:103375 (**co-author**)
- Galarza Rodriguez RM, **McMullen Jr RJ**. Descemet's membrane detachments, Ruptures, and separations in ten adult horses: Clinical signs, diagnostics, treatment options and preliminary results. *Veterinary Ophthalmology* **2020**;23:611-623. DOI:10.1111/vop.12793 (**corresponding author**)
- Mora-Pereira M, Abarca EM, Duran SH, Ravis W, **McMullen Jr RJ**, Fischer BM, Yann-Huei PL, Wooldridge AA. Sustained-release voriconazole-thermogel for subconjunctival injection in horses: Ocular toxicity and *in-vivo* studies. *BMC Veterinary Research* **2020**;16:115. <https://doi.org/10.1186/s12917-020-02331-5>. (**co-author**)
- Fischer BM, **McMullen Jr RJ**, Reese S, Brehm W. Intravitreal injection of low-dose gentamicin for the treatment of recurrent or persistent uveitis in horses: Preliminary results. *BMC Veterinary Research* **2019**; 15: 29. Published online 2019 Jan 16. Doi: 10.1186/s12917-018-1722-7(**corresponding author**)
- Braus BK, Miller I, Kummer S, Kleinwort KJH, Hirmer S, Hauck SM, **McMullen Jr RJ**, Kerschbaumer M, Deeg CA. Investigation of corneal autoantibodies in horses with immune mediated keratitis (IMMK). *Veterinary Immunology and Immunopathology* **2017**; 187: 48-54. (**co-author**)

- Pinto N, **McMullen Jr RJ**, Linder K, Cullen JM, Gilger BC. Clinical, histopathological, and immunohistochemical characterization of a novel equine ocular disorder: heterochromic iridocyclitis with secondary keratitis in adult horses. *Veterinary Ophthalmology* **2014**, Epub DOI:10.1111/vop.12234 (**corresponding author**)
- **McMullen Jr RJ**, Gilger BC, Miller Michau T. Modified lamellar keratoplasties for the treatment of deep stromal abscesses in horses. *Veterinary Ophthalmology* **2014**. Epub DOI:10.1111/vop.12227 (**first/corresponding author**)
- Edelmann ML, **McMullen Jr RJ**, Stoppini R, Clode A, Gilger BC. Retrospective evaluation of phacoemulsification and aspiration in 41 horses (46 eyes): Visual outcomes versus age, IOL, and uveitis status. *Veterinary Ophthalmology* **2014**. Epub DOI:10.1111/vop.12185 (**co-author**)
- **McMullen Jr RJ**, Davidson MG, Gilger BC. The effect of 1% tropicamide induced mydriasis and cycloplegia on spherical refraction of the adult horse. *Veterinary Ophthalmology* **2013**. Epub DOI:10.1111/vop.12055 (**first/corresponding author**)
- Harrington JT, **McMullen Jr RJ**, Cullen JM, Gilger BC. Evaluation of diode endoscopic cyclophotocoagulation in bovine cadaver eyes. *American Journal of Veterinary Research* **2012**; 73: 1445-1452. (**corresponding author**)
- Harrington JT, **McMullen Jr RJ**, Cullen JM, Campbell NB, Gilger BC. Diode laser endoscopic cyclophotocoagulation in the normal equine eye. *Veterinary Ophthalmology* **2012**; Epub DOI:10.1111/j.1463-5224.2012.01035.x. (**corresponding author**)
- Clode AB, Miller C, **McMullen Jr RJ**, Gilger BC. A retrospective comparison of surgical removal and subsequent CO₂ laser ablation versus topical administration of mitomycin C as therapy for equine corneolimbic squamous cell carcinoma. *Veterinary Ophthalmology* **2011**; DOI:10.1111/j.1463-5224.2011.00982.x. (**co-author**)
- Gilger BC, Wilkie DA, Clode AB, **McMullen Jr RJ**, Utter ME, Komaromy A, Brooks DE, Salmon JH. Long-term outcome after implantation of a suprachoroidal cyclosporine drug delivery device in horses with recurrent uveitis. *Veterinary Ophthalmology* **2010**;13:294-300. (**co-author**)
- **McMullen Jr RJ**, Davidson MG, Campbell NB, Salmon JH, Gilger BC. Evaluation of 30- and 25-diopter intraocular lens implants in equine eyes after surgical extraction of the lens. *American Journal of Veterinary Research* **2010**;71:809-816. (**first author**)
- Crasta M, Clode AB, **McMullen Jr RJ**, Pate DO, Gilger BC. Effect of three treatment protocols on acute ocular hypertension after phacoemulsification and aspiration of cataracts in dogs. *Veterinary Ophthalmology* **2010**;12:125-131. (**co-author**)
- **McMullen Jr RJ**, Clode AB, Gilger BC. Infrared digital imaging of the equine anterior segment. *Veterinary Ophthalmology* **2009**;12:125-131. (**first author**)
- **McMullen Jr RJ**, Gilger BC. Keratometry, biometry, and prediction of intraocular lens power in the equine eye. *Veterinary Ophthalmology* **2006**;9:357-360. (**first author**)

Case Reports

- Cerreta AJ, **McMullen Jr RJ**, Scott HE, Ringenberg JD, Hempstead JE, De Voe RS, Loomis M, Minter LJ. Bilateral phacoemulsification in an African Elephant (*Loxodonta Africana*). *Case Reports in Veterinary Medicine* **2019**, Article ID 2506263, <http://doi.org/10.1155/2019/2506263> (**co-author**)
- Harrington JT, **McMullen Jr RJ**, Clode AB, Gilger BC. Phacoemulsification and +14 diopter intraocular lens placement in a Saddlebred foal. *Veterinary Ophthalmology* **2012**; DOI:10.1111/j.1463-5224.2012.01032.x. (**corresponding author**)
- Gilger BC, Histed J, Pate DO, Clode AB, **McMullen Jr RJ**. Anomalous nasolacrimal openings in a 2 year-old Morgan filly. *Veterinary Ophthalmology* **2010**;13:339-342. (**co-author**)
- **McMullen RJ**, Clode AB, Pandiri AKR, Malarkey DE, Michau TM, Gilger BC. Epibulbar melanoma in a foal. *Veterinary Ophthalmology* **2008**;11:44-50. (**first author**)
- Gerlach K, Cronau M, **McMullen R**, Gerhards H. Magnetic resonance imaging of melanomas in the head region of 3 horses (article in German). *Pferdeheilkunde* **2007**;23;3:259-262. (**co-author**)

Review Articles in Peer-Reviewed Journal

- **McMullen Jr RJ**. Keratomykose beim Pferd (Equine keratomycosis). *Pferdespiegel* **2014**;4;4:1-6. (**first/corresponding author**)
- **McMullen Jr RJ**, Utter ME. Current developments in equine cataract surgery. *Equine Veterinary Journal* **2010**; Supplement 37:38-45. (**first/corresponding author**)

Invited Book Chapters

- **McMullen Jr RJ**, Millichamp NJ, Pirie CG. Ophthalmic Photography. In Gelatt KN, Ben-Shlomo G, Gilger BC, Hendrix D, Kern T, Plummer CE, editors: *Veterinary Ophthalmology*, ed 6, Ames, **2021**. (**co-first-author**)
- **McMullen Jr RJ**, Passler T. Diseases of the Eye. In Pugh DG, Baird N, Edmondson M, Passler T, editors: *Sheep, Goat and Cervid Medicine*, ed. 3, Philadelphia, **2020**. (**co-first-author**)
- **McMullen Jr RJ**. Ophthalmology: Immune-Mediated Keratitis (IMMK). *Five-Minute Veterinary Consultant: Equine*, ed. 3. John Wiley and Sons. **2019**. (**first author**)
- **McMullen Jr RJ**. Ophthalmology: Putative Viral (Herpes) Keratitis. *Five-Minute Veterinary Consultant: Equine*, ed. 3. John Wiley and Sons. **2019**. (**first author**)
- **McMullen Jr RJ**. Ophthalmology: Equine Recurrent Uveitis. *Five-Minute Veterinary Consultant: Equine*, ed. 3. John Wiley and Sons. **2019**. (**first author**)
- **McMullen Jr RJ**, Fischer BM. Medical and Surgical Management of Equine Recurrent Uveitis. *Veterinary Clinics of North America – Equine Practice*. **2017**; 33: 465-481. (**co-first-author**)
- **McMullen Jr RJ**, Gilger BC. Diseases and surgery of the lens. In Gilger BC, editor: *Equine Ophthalmology*, ed. 3, **2017**, John Wiley & Sons, Inc., Ames: 416-462. (**co-**

first-author)

- **McMullen Jr RJ**, Millichamp NJ, Pirie CG. Ophthalmic Photography. In Gelatt KN, Kern T, Gilger BC, editors: *Veterinary Ophthalmology*, ed 5, Ames, **2013**, Blackwell Publishing, pp. 729-789. (**co-first-author**)
- Colitz CMH, **McMullen Jr RJ**. Diseases and surgery of the lens. In Gilger BC, editor: *Equine Ophthalmology*, ed. 2, Maryland Heights, **2011**, Elsevier Saunders, pp 282-316. (**co-first-author**)

Dissertation

- **McMullen Jr RJ**. *Equine keratitis and the possible involvement of equine adenovirus type 1 (EadV1) and equine adenovirus type 2 (EadV2)*. Ludwig-Maximilians-University, College of Veterinary Medicine, **2005**. Munich, Germany, Title: *Doctor medicinae veterinariae* (Dr. med. vet.): *magna cum laude* (**first author**)

Original Research Publications (Abstracts/Presentations)

- Charnock LN, Boveland SD, Moore PA, Groover ES, **McMullen Jr RJ**. (**2021**) *Effects of the corneoconjunctival transposition and posterior lamellar keratoplasty on streak retinoscopy in equine cadaver eyes: Preliminary results*. American College of Veterinary Ophthalmologists, 52nd Annual Conference, Indianapolis, IN, USA. *Senior author, mentor to resident trainee, first author.
- Humphrey SL, Fischer BM, **McMullen Jr RJ**. (**2020**) *Low-dose intravitreal injections of 4mg gentamicin and superficial lamellar keratectomy combined with conjunctival advancement grafts to control chronic heterochromic iridocyclitis and secondary keratitis (HIK): Preliminary results*. American College of Veterinary Ophthalmologists, 51st Annual Conference, Virtual Meeting. *Senior author, mentor to resident trainee, first author.
- Hefner EM, **McMullen Jr RJ**. (**2020**) *Treatment of equine ocular and periocular squamous cell carcinoma with infracyanine green photodynamic therapy*. American College of Veterinary Ophthalmologists, 51st Annual Conference, Virtual Meeting. *Senior author, mentor to resident trainee, first author.
- Hefner EM, Lin HC, Cole RC, Moore PA, **McMullen Jr RJ**. (**2020**) *Comparison of the image quality from optical coherence tomography of the equine cornea and retina using sedation and general anesthesia protocols with or without the use of local retrobulbar anesthesia*. American College of Veterinary Ophthalmologists, 51st Annual Conference, Virtual Meeting. *Senior author, mentor to resident trainee, first author.
- Fischer BM, **McMullen Jr RJ**, Moore PA, Teixeira LBC. (**2020**) *Infracyanine green-based corneal tissue welding with infrared laser irradiation following full-thickness clear corneal incisions is impeded by viscoelastic*. American College of Veterinary Ophthalmologists, 51st Annual Conference, Virtual Meeting. *Senior author, mentor to resident trainee, first author.
- Keenan AV, Oster S, Bellah JR, **McMullen Jr RJ**, Shaw GC, Teixeira LBC, Moore PA, Boveland SD. (**2020**) *Clinical and pathologic evaluation of chorioretinitis in wild owl species*. American College of Veterinary Ophthalmologists, 51st Annual Conference, Virtual Meeting. *Co-author.

- Charnock LN, **McMullen Jr RJ**. (2019) Ocular blunt force trauma: A retrospective observation of 44 equine cases. Phi Zeta Research Day, Auburn, AL. **Senior author, mentor to resident trainee, first author.*
- Keenan AV, Boveland SD, **McMullen Jr RJ**, Moore PA. (2019) *Predisposing factors associated with canine ulcerative keratomycosis in 29 eyes.* 50th Annual Scientific Conference of the American College of Veterinary Ophthalmologists, Maui, Hawaii, USA. – **POSTER** **Co-author.*
- Mora M, Abarca EM, Duran SH, Ravis W, **McMullen Jr RJ**, Fischer BM, Lee Y-HP, Wooldridge A. (2019) *Voriconazole ocular tissue concentrations 7 days following subconjunctival injection of a voriconazole-thermogel in horses.* European College of Veterinary Internal Medicine (ECVIM), Milano, Italy. **Co-author.*
- Fischer BM, **McMullen Jr RJ**. (2019) *Leptospira and herpes virus prevalence in aqueous humor and serum from horses affected with equine recurrent uveitis in Germany and the Southeastern United States.* International Equine Ophthalmology Consortium (IEOC), Vancouver, Canada. **Senior author, mentor to resident trainee, first author.*
- Charnock LN, **McMullen Jr RJ**. (2019) *Ocular blunt force trauma: A review of the literature and a retrospective observation of 44 equine cases.* International Equine Ophthalmology Consortium (IEOC), Vancouver, Canada. **Senior author, mentor to resident trainee, first author.*
- **McMullen Jr RJ**, Fischer BM, Dwyer A, Herring I, Barr EM, Gilger BC. (2019) Suspected adverse reactions to the LEPTO EQ INNOVATOR[®] vaccine leading to the development of severe Leptospira-associated uveitis in three horses. International Equine Ophthalmology Consortium (IEOC), Vancouver, Canada. **Senior author.*

- Owens CD, Michau TM, Boorstein J, Wynn ER, Weihozkiy A, Stine J, **McMullen Jr RJ***. (2018) *Keratometry, biometry and prediction of intraocular lens power in the tiger (Panthera tigris)* American College of Veterinary Ophthalmologists, 49th Annual Conference and Trade Show, Minneapolis, MN. **Co-author.*
- Keenan AV, Rodriguez Galarza RM, Boveland SD, **McMullen Jr RJ*** Moore PA. (2018) *Case series: Corneoconjunctival transposition in 15 dogs.* American College of Veterinary Ophthalmologists, 49th Annual Conference and Trade Show, Minneapolis, MN – **POSTER** **Co-author.*
- Makra Z, Molnár Sz, Csereklye N, Veres-Nyéki K, Riera MM, **McMullen Jr RJ**, Abonyi-Tóth Zs, Bodó G. (2018) *Comparison of the effect of intravenous flunixin meglumine, phenylbutazone and electroacupuncture on ocular pain in the horse: A pilot study.* International Equine Ophthalmology Consortium/Tonovet Equine Ophthalmology Symposium, Reykjavik, Iceland. **Co-author.*
- **McMullen Jr RJ***, Galarza Rodriguez RM. (2018) *Descemet's membrane detachment or rupture in the horse and novel approaches to therapy.* European College of Veterinary Ophthalmologists, Florence, Italy. **Senior author.*

- Fischer BM, **McMullen Jr RJ***, Rodriguez-Galarza RM, Beyer A. (2017) *Intrastromal injections of 1% voriconazole and reduction in topical treatment frequencies to treat anterior stromal keratomycosis in horses.* International Equine Ophthalmology Consortium/An-Vision Inc. Symposium, Saratoga Springs, NY. **Senior author, mentor to intern trainee, first author.*
- **McMullen Jr RJ***, Fischer BM. (2017) *Low-dose intravitreal injections of 4mg gentamicin and superficial lamellar keratectomy combined with conjunctival advancement grafts to control chronic heterochromic iridocyclitis and secondary keratitis (HIK): Preliminary results.* International Equine Ophthalmology

- Consortium/An-Vision Inc. Symposium, Saratoga Springs, NY. **Senior author.*
McMullen Jr RJ*, Galarza RR, Shrader S. (2017) Focal Descemet's membrane rupture in a Thoroughbred mare. Midwestern Veterinary Ophthalmology Society, Savannah, GA. **Senior author.*

- Fischer BM, Brehm W, Reese S, **McMullen Jr RJ***. (2016) *Treatment of recurrent uveitis in horses with Intravitreal low-dose gentamicin injection.* Dorothy Havemeyer Foundation Equine Ophthalmology Symposium, Malahide, Ireland. **Senior author, mentor to doctoral candidate trainee, first author.*
- Kappler LD, Davidson MG, Hall C, Labens R, Fischer BM, **McMullen Jr RJ***. (2016) *The effects of optical defocus in a 13 year-old Connemara pony.* Dorothy Havemeyer Foundation Equine Ophthalmology Symposium, Malahide, Ireland. **Senior author, mentor to student trainee, first author.*
- **McMullen Jr RJ***, Fischer BM. (2016) *Intrastromal indocyanine green photothermal therapy for the treatment of immune-mediated keratitis in the horse.* Dorothy Havemeyer Foundation Equine Ophthalmology Symposium, Malahide, Ireland. **Senior author.*
- Braus BK, Miller I, Kummer S, **McMullen Jr RJ***, Florin M, Deeg C. (2016) *Investigation of corneal autoantibodies in horses with immune mediated keratitis (IMMK).* Annual Congress of the European College of Veterinary Ophthalmologists, Budapest, Hungary. **Co-author.*

- **McMullen Jr RJ***. (2015) *Intravitreal injection of low-dose gentamicin in horses for treatment of chronic recurrent or persistent uveitis: preliminary results.* International Equine Ophthalmology Consortium/Acrivet, Inc. Symposium, Savannah, Georgia, USA. **Senior author.*
- **McMullen Jr RJ***, Davidson MG, Gilger BC. (2015) *Prevalence, differences, and potential correlation to breed, age, coat and iris color, or gender in naturally occurring refractive errors in the normal adult equine eye in Germany and North Carolina.* International Equine Ophthalmology Consortium/Acrivet, Inc. Symposium, Savannah, Georgia, USA. **Senior author.*
- **McMullen Jr RJ***. (2015) *Case Report: Management of chronic keratouveitis in a 13 year-old Appaloosa mare.* International Equine Ophthalmology Consortium/Acrivet, Inc. Symposium, Savannah, Georgia, USA. **Senior author.*

- **McMullen Jr RJ***. (2014) *Case Report: Presumed primary glaucoma.* Dorothy Havemeyer Foundation Equine Ophthalmology Symposium, Stresa, Italy. **Senior author.*
- **McMullen Jr RJ***. (2014) *Case Report: Intravitreal triamcinolone injections – Uveitis.* Dorothy Havemeyer Foundation Equine Ophthalmology Symposium, Stresa, Italy. **Senior author.*
- **McMullen Jr RJ***, Michau TM, Gilger BC. (2014) *Experiences with intrastromal injections of 1% and 5% voriconazole for the treatment of corneal stromal abscesses in horses.* Dorothy Havemeyer Foundation Equine Ophthalmology Symposium, Stresa, Italy. **Senior author.*

- Pinto N, **McMullen Jr RJ***, Linder K, Cullen J, Gilger BC. (2013) *Anterior uveitis, endotheliitis and pigment dispersion in 12 horses.* International Equine

Ophthalmology Consortium/Acrivet, Inc. Symposium, Jackson Hole, Wyoming, USA.
*Senior author, mentor to resident trainee, first author.

- **McMullen Jr RJ***, Baker R, Bell C, Gilger BC. (2012) *Scope of ophthalmic surgery in standing, sedated horses: 2004-2011*. European Society of Veterinary Ophthalmology, Krakow, Poland. *Senior author.
- **McMullen Jr RJ***, Baker R, Bell C, Gilger BC. (2012) *Partial incision superficial lamellar keratectomy (PI-SLK) in the standing, sedated horse*. European Society of Veterinary Ophthalmology, Krakow, Poland. *Senior author. (**Award for Best Presentation**)
- **McMullen Jr RJ***, Baker R, Bell C, Gilger BC. (2012) *Lamellar keratoplasties for the treatment of deep stromal abscesses in the standing sedated horse*. International Equine Ophthalmology Consortium/Acrivet, Inc. Symposium, Stirling, Scotland. *Senior author.
- **McMullen Jr RJ***, Davidson MG, Gilger BC. (2012) *Prevalence of naturally occurring refractive errors in the normal adult equine eye and potential correlation to breed, age, coat and iris color, or gender*. International Equine Ophthalmology Consortium/Acrivet, Inc. Symposium, Stirling, Scotland. *Senior author.
- Gilger BC, Clode AB, **McMullen Jr RJ***, Harrington JA, Pinto NH. (2012) *Two step penetrating keratoplasty (TSPK) for deep fungal abscesses in horses*. International Equine Ophthalmology Consortium/Acrivet, Inc. Symposium, Stirling, Scotland. *Co-author.
- Labelle AL, Hamor RE, Labelle P, **McMullen Jr RJ***, Wiggans KT, Metzler AG, Cutler TJ, Bourne R, Keil S, Evans P, Utter ME, Hartley C, Racklyeft, Spiess B, Zita M, Ledbetter EC, Rankin AJ. (2012) *Equine intraocular melanocytic neoplasia (EIMN): 52 cases*. International Equine Ophthalmology Consortium/Acrivet, Inc. Symposium, Stirling, Scotland. *Co-author.
- Harrington JT, **McMullen Jr RJ***, Cullen JM, Campbell NB, Gilger BC. (2011) *Clinical and histopathology effects of diode laser endoscopic cyclophotocoagulation in the normal equine eye*. 42nd Annual Conference of the American College of Veterinary Ophthalmologists, Hilton Head, SC (Award for Best Clinical Research Presentation). *Senior author; mentor to resident trainee first author.
- Gilger BC*, **McMullen Jr RJ***, Clode AB, Pate DO, Harrington J, Hempstead J. (2011) *Clinical characteristics and treatment of endothelial immune mediated keratitis in horses*. Dorothy Havemeyer Foundation Equine Ophthalmology Symposium, West Palm Beach, FL. *Co-senior author.
- **McMullen Jr RJ***, Buso RD, Salmon JH, Davidson MG, Gilger BC. (2010) *Effect of 1% tropicamide induced mydriasis on spherical refraction of the adult horse*. 41st Annual Conference of the American College of Veterinary Ophthalmologists, San Diego, CA. *Senior author.
- Harrington JT, **McMullen Jr RJ***, Cullen JM, Gilger BC. (2010) *Evaluation of the acute structural and histopathologic effects of endoscopic cyclophotocoagulation in the large animal eye*. 41st Annual Conference of the American College of Veterinary Ophthalmologists, San Diego, CA. *Senior author; mentor to resident trainee first author.
- Pate DO, Clode AB, **McMullen Jr RJ***, Gilger BC. (2009) *Superficial keratectomy for*

- the treatment of equine immune mediated keratitis.* 40th Annual Conference of the American College of Veterinary Ophthalmologists, Chicago, IL. *Co-author.
- **McMullen Jr RJ***, Clode AB, Gilger BC. (2009) *Use of digital infrared photography to evaluate the anterior segment of the equine eye.* North Carolina State University, College of Veterinary Medicine Annual Research Forum, Raleigh, NC. *First author.
 - **McMullen Jr RJ***. (2008) *Use of digital infrared photography to evaluate the anterior segment of the equine eye.* House Officer Seminar, North Carolina State University, Raleigh, NC.
 - **McMullen Jr RJ***. (2008) *Development of an intraocular lens implant for horses.* House Officer Seminar, North Carolina State University, Raleigh, NC.
 - **McMullen Jr RJ***, Davidson MG, Campbell NB, Salmon JH, Gilger BC. (2008) *In vitro and in vivo evaluation of an equine intraocular lens.* 39th Annual Conference of the American College of Veterinary Ophthalmologists, Boston, MA. (**Dr. Cindy Wheeler Memorial Grant for Research Award**) *First author.
 - **McMullen Jr RJ***, Clode AB, Gilger BC. (2008) *Use of digital infrared photography to evaluate the anterior segment of the equine eye.* 39th Annual Conference of the American College of Veterinary Ophthalmologists, Boston, MA. *First author.
 - **McMullen Jr RJ***, Salmon JH, Davidson MG, Gilger BC. (2008) *Refractive state of the enucleated equine eye after placement of a +30D intraocular lens.* Annual Meeting of the Association for Research in Vision and Ophthalmology, Fort Lauderdale, FL. *First author.
 - **McMullen Jr RJ***, Salmon JH, Gilger BC. (2006) *Ocular biometry, determination of corneal curvature and prediction of intraocular lens power in the equine eye.* Combined Annual Meeting of the European College of Veterinary Ophthalmologists & European Society of Veterinary Ophthalmology, Brugge, Belgium. (**Award for Best Research Paper**) *First author.
 - **McMullen Jr RJ***, Deeg CA, Matiasek K, Gerhards H. (2006) *Ocular findings in a horse with equine motor neuron disease (EMND) – case report.* 19th Annual Meeting of the Equine Disease Society of the German Veterinary Association, Hannover, Germany. *First author.
 - **McMullen Jr RJ***, Balzer HJ, Gerhards H. (2005) *Equine keratitis and the possible involvement of equine adenovirus type 1 (EadV1) and type 2 (EadV2).* Combined Annual Meeting of the European College of Veterinary Ophthalmologists & European Society of Veterinary Ophthalmology, Oporto, Portugal. *First author.
 - **McMullen Jr RJ***, Gesell S, Maeule M. (2004) *The use of topical acyclovir and cyclosporine A in the treatment of superficial punctate keratitis in the horse.* Combined Annual Meeting of the European College of Veterinary Ophthalmologists, German Eye Panel, and European Society of Veterinary Ophthalmology, Munich, Germany. *First/senior author.

Invited Lectures or Presentations:

Invited Scientific Presentations

- **Uveitis - Panel Discussion.** Veterinary Professional Development (VetPD) – Webinar (2021)

- **The Equine Lens - Panel Discussion.** Veterinary Professional Development (VetPD) – Webinar (2021)
- **Prepurchase Examination: The Ophthalmic Examination.** 14th Annual & JT Vaughan Equine Conference: Auburn & Tuskegee Universities, Auburn, AL, USA (2021)
- **Diagnosis and treatment of equine uveitis: managing expectations.** Midcoastal California Veterinary Medical Association (MCVMA) – Webinar (2021)
- **Uveitis - Panel Discussion.** Veterinary Professional Development (VetPD) – Webinar (2021)
- **Infra- and indocyanine green-based photodynamic therapy for the treatment of equine ocular and periocular squamous cell carcinoma.** Midcoastal California Veterinary Medical Association (MCVMA) – Webinar (2021)

- **Advanced diagnostic imaging in equine ophthalmology.** 13th Annual & JT Vaughan Equine Conference: Auburn & Tuskegee Universities, Auburn, AL, USA (2020)
- **An in-depth look into corneal ulceration and wound healing.** An-Vision veterinary ophthalmology webinar, An-Vision, Berlin, Germany (2020)
- **Diagnostic ultrasound and infrared digital imaging.** North Carolina State University Equine Health Symposium, Raleigh, NC, USA (2020)
- **Equine ocular field cytology.** North Carolina State University Equine Health Symposium, Raleigh, NC, USA (2020)
- **Early diagnosis of equine glaucoma in a first-opinion practice environment.** North Carolina State University Equine Health Symposium, Raleigh, NC, USA (2020)
- **Equine ophthalmic emergencies – Dealing with catastrophes.** North Carolina State University Equine Health Symposium, Raleigh, NC, USA (2020)
- **Blindness in horses.** North Carolina State University Equine Health Symposium, Raleigh, NC, USA (2020)
- **The posterior segment and prepurchase examination.** North Carolina State University Equine Health Symposium, Raleigh, NC, USA (2020)
- **Recent developments in ophthalmic diagnostics & therapeutics part II.** VetPD Advanced Equine Ophthalmology – A 2-Day Practical Course, Dover, NH, USA (2020)
- **Diagnostic ocular ultrasound & digital infrared photography.** VetPD Advanced Equine Ophthalmology – A 2-Day Practical Course, Dover, NH, USA (2020)
- **Ocular ultrasound lab – Practical Session – 3 individual labs with horses.** VetPD Advanced Equine Ophthalmology – A 2-Day Practical Course, Dover, NH, USA (2020)
- **Infracyanine green based photodynamic therapy of immune-mediated keratitis and squamous cell carcinoma in horses.** VetPD Advanced Equine Ophthalmology – A 2-Day Practical Course, Dover, NH, USA (2020)
- **Equine uveitis – understanding a complex disease.** VetPD Advanced Equine Ophthalmology – A 2-Day Practical Course, Dover, NH, USA (2020)
- **Equine uveitis – a rational approach to treatment.** VetPD Advanced Equine Ophthalmology – A 2-Day Practical Course, Dover, NH, USA (2020)
- **The posterior eye & the pre-purchase examination.** VetPD Advanced Equine Ophthalmology – A 2-Day Practical Course, Dover, NH, USA (2020)
- **Examination of horses with eye problems – 3 individual labs with horses.** VetPD Advanced Equine Ophthalmology – A 2-Day Practical Course, Dover, NH, USA (2020)

- **Treatment of eyelid and corneoconjunctival squamous cell carcinoma using photodynamic therapy.** 12th Annual & JT Vaughan Equine Conference: Auburn & Tuskegee Universities, Auburn, AL, USA (2019)

- **Perioperative and intraoperative use of optical coherence tomography in ophthalmic surgery in the horse.** 3rd Annual Veterinary Ophthalmic Surgery Meeting, Chicago, IL (2019)
- ***Infracyanine green based photodynamic therapy for the treatment of eyelid and corneconjunctival squamous cell carcinoma in the horse.*** 3rd Annual Veterinary Ophthalmic Surgery Meeting, Chicago, IL (2019)
- ***Diode laser ablation of uveal cysts in the horse.*** MLT Equine Ophthalmology Laser Course, Burg-Müggenhausen, Germany (2019)
- ***Infracyanine green based photodynamic therapy for the treatment of equine corneconjunctival squamous cell carcinoma.*** MLT Equine Ophthalmology Laser Course, Burg-Müggenhausen, Germany (2019)
- ***Infracyanine green based photodynamic/photothermal therapy for the treatment of equine eyelid squamous cell carcinoma.*** MLT Equine Ophthalmology Laser Course, Burg-Müggenhausen, Germany (2019)
- ***Intrastromal infracyanine green based photodynamic/photothermal therapy for the treatment of immune-mediated keratitis in horses.*** MLT Equine Ophthalmology Laser Course, Burg-Müggenhausen, Germany (2019)
- ***Recent developments in ophthalmic diagnostics & therapeutics part II.*** VetPD Advanced Equine Ophthalmology – A 2-Day Practical Course, Biel-Benken, Switzerland (2019)
- ***Diagnostic ocular ultrasound & digital infrared photography.*** VetPD Advanced Equine Ophthalmology – A 2-Day Practical Course, Biel-Benken, Switzerland (2019)
- ***Ocular ultrasound lab – Practical Session – 3 individual labs with horses.*** VetPD Advanced Equine Ophthalmology – A 2-Day Practical Course, Biel-Benken, Switzerland (2019)
- ***Infracyanine green based photodynamic therapy of immune-mediated keratitis and squamous cell carcinoma in horses.*** VetPD Advanced Equine Ophthalmology – A 2-Day Practical Course, Biel-Benken, Switzerland (2019)
- ***Equine uveitis – understanding a complex disease.*** VetPD Advanced Equine Ophthalmology – A 2-Day Practical Course, Biel-Benken, Switzerland (2019)
- ***Equine uveitis – a rational approach to treatment.*** VetPD Advanced Equine Ophthalmology – A 2-Day Practical Course, Biel-Benken, Switzerland (2019)
- ***The posterior eye & the pre-purchase examination.*** VetPD Advanced Equine Ophthalmology – A 2-Day Practical Course, Biel-Benken, Switzerland (2019)
- ***Examination of horses with eye problems – 3 individual labs with horses.*** VetPD Advanced Equine Ophthalmology – A 2-Day Practical Course, Biel-Benken, Switzerland (2019)
- ***Recent developments in ophthalmic diagnostics & therapeutics part II.*** VetPD Advanced Equine Ophthalmology – A 2-Day Practical Course, Paarden, Netherlands (2019)
- ***Diagnostic ocular ultrasound & digital infrared photography.*** VetPD Advanced Equine Ophthalmology – A 2-Day Practical Course, Paarden, Netherlands (2019)
- ***Ocular ultrasound lab – Practical Session – 3 individual labs with horses.*** VetPD Advanced Equine Ophthalmology – A 2-Day Practical Course, Paarden, Netherlands (2019)
- ***Infracyanine green based photodynamic therapy of immune-mediated keratitis and squamous cell carcinoma in horses.*** VetPD Advanced Equine Ophthalmology – A 2-Day Practical Course, Paarden, Netherlands (2019)
- ***Equine uveitis – understanding a complex disease.*** VetPD Advanced Equine Ophthalmology – A 2-Day Practical Course, Paarden, Netherlands (2019)
- ***Equine uveitis – a rational approach to treatment.*** VetPD Advanced Equine Ophthalmology – A 2-Day Practical Course, Paarden, Netherlands (2019)
- ***The posterior eye & the pre-purchase examination.*** VetPD Advanced Equine Ophthalmology – A 2-Day Practical Course, Paarden, Netherlands (2019)

- ***Examination of horses with eye problems – 3 individual labs with horses.*** VetPD Advanced Equine Ophthalmology – A 2-Day Practical Course, Paarden, Netherlands (2019)
- ***Basic ophthalmic examination techniques.*** Eickemeyer, Equine Ophthalmology – 2 day course, Ansager, Denmark (2018)
- ***Advanced ophthalmic examination techniques.*** Eickemeyer, Equine Ophthalmology – 2 day course, Ansager, Denmark (2018)
- ***Color and infrared digital macro photography and fundus photography.*** Eickemeyer, Equine Ophthalmology – 2 day course, Ansager, Denmark (2018)
- ***Examination laboratory on live animals.*** Eickemeyer, Equine Ophthalmology – 2 day course, Ansager, Denmark (2018)
- ***Immune-mediated keratitis.*** Eickemeyer, Equine Ophthalmology – 2 day course, Ansager, Denmark (2018)
- ***Infectious corneal disease.*** Eickemeyer, Equine Ophthalmology – 2 day course, Ansager, Denmark (2018)
- ***Equine recurrent uveitis I (understanding uveitis) & II (treatment).*** Eickemeyer, Equine Ophthalmology – 2 day course, Ansager, Denmark (2018)
- ***Ocular surgery laboratory.*** Eickemeyer, Equine Ophthalmology – 2 day course, Ansager, Denmark (2018)
- ***Early diagnosis of equine glaucoma in a first-opinion practice environment.*** 11th Annual & JT Vaughan Equine Conference: Auburn & Tuskegee Universities, Auburn, AL, USA (2018)
- ***Advanced surgical procedures of the equine eye. Resident's workshop – Equine.*** American College of Veterinary Ophthalmologists, 49th Annual Conference and Trade Show, Minneapolis, MN, USA (2018)
- ***Photographic techniques.*** Auburn University Veterinary Academy, Auburn, AL, USA (2018)
- ***Infrared macrophotography.*** Auburn University Veterinary Academy, Auburn, AL, USA (2018)
- ***164660 – Digital infrared photography: How to improve identification of ocular abnormalities.*** Veterinary Meeting and Expo, Orlando, FL, USA (2018)
- ***163988 – Equine glaucoma: Early diagnosis in the field.*** Veterinary Meeting and Expo, Orlando, FL, USA (2018)
- ***161771 – Ocular catastrophes: 3 ways to prevent them in practice.*** Veterinary Meeting and Expo, Orlando, FL, USA (2018)
- ***164632 – Conjunctival pedicle graft: Has it lost its usefulness?*** Veterinary Meeting and Expo, Orlando, FL, USA (2018)
- ***163916 – Ocular field cytology: Yes you can!*** Veterinary Meeting and Expo, Orlando, FL, USA (2018)
- ***161296 – Ocular emergency assessment: Think positively & be quick.*** Veterinary Meeting and Expo, Orlando, Florida, USA (2018)
- ***168268 – Ocular squamous cell carcinoma: What to do.*** Veterinary Meeting and Expo, Orlando, FL, USA (2018)
- ***Preventing blindness in horses.*** 12th JT Vaughan Equine Conference for the Practitioner, Auburn, AL, USA (2017)
- ***McMullen Jr RJ, Fischer BM. Ahmed glaucoma valve placement in horses under standing sedation.*** 1st Annual Veterinary Ophthalmic Surgery Meeting, Chicago, IL (2017)
- ***Equine Uveitis – Understanding a complex disease.*** Auburn University Summer CE

- Series – Ophthalmology. Auburn, AL, USA (2017)
- ***Dealing with blindness in horses.*** Annual Congress of the European College of Veterinary Ophthalmologists, Estoril, Portugal (2017)
 - Davidson MG, Ofri R, **McMullen Jr RJ. *Streak Retinoscopy Lab.*** Annual Congress of the European College of Veterinary Ophthalmologists, Estoril, Portugal (2017)
 - **McMullen Jr RJ, Gilger BC, Michau TM. *Modified lamellar keratoplasties for the treatment of deep stromal abscesses in horses.*** 27th Annual Meeting of the Veterinary Ophthalmology Training Community (Fortbildungsgemeinschaft Veterinärophthalmologie (FVO)), Bamberg, Germany (2017)
 - ***Clinical research overview in equine ophthalmology: Where are we heading?*** Faculty Recruitment Seminar, Auburn University, Auburn, Alabama, USA (2016)
 - ***Clinical research overview in equine ophthalmology: Where are we heading?*** Faculty Recruitment Seminar, University of Georgia, Athens, Georgia, USA (2016)
 - ***State of the Art Lecture: The if's, and's, and but(t)'s of standing ophthalmic surgery in the horse.*** Dorothy Havemeyer Foundation Equine Ophthalmology Symposium, Malahide, Ireland. (2016)
 - ***Anterior segment photography.*** Annual Congress of the European College of Veterinary Ophthalmologists, Budapest, Hungary (2016)
 - ***Equine Uveitis – Understanding a complex disease.*** Danish Society of Veterinary Ophthalmology, Hindsgavl Slot, Denmark (2016)
 - ***Equine Uveitis – A rational approach to treatment.*** Danish Society of Veterinary Ophthalmology, Hindsgavl Slot, Denmark (2016)
 - ***Recent developments in equine ophthalmic diagnostics and therapeutics.*** Danish Society of Veterinary Ophthalmology, Hindsgavl Slot, Denmark (2016)
 - ***Interpreting equine ophthalmic findings as part of the pre-purchase examination.*** Danish Society of Veterinary Ophthalmology, Hindsgavl Slot, Denmark (2016)
 - ***Handheld slit lamp photography.*** Danish Society of Veterinary Ophthalmology, Hindsgavl Slot, Denmark (2016)
 - ***Photographic techniques - External macrophotography.*** Danish Society of Veterinary Ophthalmology, Hindsgavl Slot, Denmark (2016)
 - ***Digital infrared macrophotography.*** Danish Society of Veterinary Ophthalmology, Hindsgavl Slot, Denmark (2016)
 - ***Equine corneal disease.*** National Association of Austrian Equine Veterinarians, Salzburg, Austria (2016)
 - ***Equine uveitis update.*** National Association of Austrian Equine Veterinarians, Salzburg, Austria (2016)
 - ***Immune mediated Keratitis in Horses.*** National Association of Austrian Equine Veterinarians, Salzburg, Austria (2016)
 - ***Intravitreal injection of low-dose gentamicin in horses for treatment of chronic recurrent or persistent uveitis: preliminary results.*** Faculty Recruitment Seminar, UC Davis, Davis, California, USA (2016)
 - ***Recent developments in ophthalmic diagnostics and therapeutics.*** Vet PD, Advances in Equine Ophthalmology – 2 Days of Lectures and Practical Sessions, Hattersheim, Germany (2016)
 - ***Equine Uveitis – Understanding a complex disease.*** Vet PD, Advances in Equine Ophthalmology – 2 Days of Lectures and Practical Sessions, Hattersheim, Germany

- (2016)
- ***Equine Uveitis – A rational approach to treatment.*** Vet PD, Advances in Equine Ophthalmology – 2 Days of Lectures and Practical Sessions, Hattersheim, Germany (2016)
- ***Intravitreal injection of low-dose gentamicin in horses for treatment of chronic recurrent or persistent uveitis: preliminary results.*** Faculty Recruitment Seminar, University of Florida, Gainesville, FL, USA (2016)
- ***Common eye diseases in horses*** (3 hour seminar). National Association of Veterinary Practitioners (Germany), International Congress Center Munich, Germany (2015)
- ***Constant challenges associated with ocular discharge.*** Equine Clinic Aschheim Continuing Education Series, Aschheim, Germany. (2015)
- ***Photographic tips and tricks in veterinary ophthalmology.*** 25th Annual Meeting of the Continuing Education Society of Veterinary Ophthalmology [Fortbildungsgemeinschaft Veterinärophthalmologie, FVO], Salzburg, Austria. (2015)
- ***Digital infrared macrophotography.*** 25th Annual Meeting of the Continuing Education Society of Veterinary Ophthalmology [Fortbildungsgemeinschaft Veterinärophthalmologie, FVO], Salzburg, Austria. (2015)
- ***Slit lamp and fundus photography.*** 25th Annual Meeting of the Continuing Education Society of Veterinary Ophthalmology [Fortbildungsgemeinschaft Veterinärophthalmologie, FVO], Salzburg, Austria. (2015)
- Dwyer AE, Källberg M, **McMullen Jr RJ.** ***Equine ophthalmology case days*** (3 days of case discussions and wet labs). Müggenhausen and Heimerzheim, Germany. (2015)
- ***A small taste of equine ophthalmology.*** Central California Equine Practitioners. Casa Dumetz, Los Alamos, California, USA. (2014)
- ***Current equine ophthalmic diseases and treatment options.*** MSD Roadshow – Equine (6 lectures). Hamburg, Unterschleißheim, Schwielowsee, Stuttgart, Bielefeld and Düsseldorf, Germany. (2014)
- ***Equine conjunctivitis and keratitis.*** LBH: 7th Leipziger Tierärztekongress – Proceedings Band 2, pp. 17. Leipzig, Germany. (2014)
- ***Photographic techniques – Ophthalmic Photography Course.*** 44th Annual Conference of the American College of Veterinary Ophthalmologists, Puerto Rico, USA. (2013)
- ***Handheld slit lamp photography – Ophthalmic Photography Course.*** 44th Annual Conference of the American College of Veterinary Ophthalmologists, Puerto Rico, USA. (2013)
- ***Digital infrared photography – Ophthalmic Photography Course.*** 44th Annual Conference of the American College of Veterinary Ophthalmologists, Puerto Rico, USA. (2013)
- ***Cataract surgery: Are we there yet?*** British Equine Veterinary Association, Manchester, UK. (2013)
- ***Surgical options for corneal ulcers.*** British Equine Veterinary Association, Manchester, UK. (2013)
- ***Chronic, non-healing corneal ulcers.*** 26th Annual Bavarian Veterinary Conference. Rosenheim, Germany. (2013)
- ***Retinoscopy and vision in the horse – what is the current state?*** Veterinary

- Continuing Education Series – Equine Clinic Munich-Riem and Merial GmbH, Aschheim, Germany. (2012)
- Davidson MG, Ofri R, **McMullen Jr RJ. Retinoscopy Lab.** Annual Meeting of the European Society of Veterinary Ophthalmology, Krakow, Poland. (2012)
 - Clode AB, **McMullen Jr RJ. Practical ocular therapeutics and equine ophthalmic pharmacology.** American Association of Equine Practitioners Focus on Equine Ophthalmology Meeting, Raleigh, NC. (2012)
 - **Has the conjunctival pedicle graft lost its usefulness?** French Companion Animal and Equine Veterinary Association Annual Congress. Lyon, France. (2011)
 - **Equine prepurchase examination.** French Companion Animal and Equine Veterinary Association Annual Congress. Lyon, France. (2011)
 - **Digital infrared photography. Resident’s Workshop – Digital Ophthalmic Imaging.** 41st Annual Conference of the American College of Veterinary Ophthalmologists, San Diego, CA. (2010)
 - **The lens: opacification, identification, and phacoemulsification. General Practitioner’s Seminar.** 41st Annual Conference of the American College of Veterinary Ophthalmologists, San Diego, CA. (2010)
 - **Equine Ophthalmology – what’s new?** Veterinary Ophthalmic Technicians Society – 41st Annual Conference of the American College of Veterinary Ophthalmologists, San Diego, CA. (2010)
 - **What’s new in equine ophthalmology?** General Practitioner’s Forum, North Carolina Veterinary Conference, Raleigh, NC. (2010)
 - **Intralesional brachytherapy.** Veterinary Technician Forum, North Carolina Veterinary Conference, Raleigh, NC. (2010)
 - **Intralesional brachytherapy for the treatment of equine eyelid neoplasms – a clinical perspective.** North Carolina Medical Health Physics Society – Spring Meeting, 45th Anniversary, Raleigh, NC. (2010)
 - **Practical ocular therapeutics and equine ophthalmic pharmacology.** American Association of Equine Practitioners Focus on Equine Ophthalmology Meeting, Raleigh, NC. (2009)
 - **Equine cataract surgery and intraocular lens design.** 1st Annual International Equine Ophthalmology Consortium Symposium, Lexington, KY. (2009)
 - **Stabilization & triage of small animal ocular emergencies.** Veterinary Technician Forum, North Carolina Veterinary Conference, Research Triangle Park, NC. (2007)
 - **Diagnosing the corneal ulcer.** Large Animal Forum - Veterinary Technician Forum, North Carolina Veterinary Conference, Research Triangle Park, NC. (2007)
 - **Fungal disease and therapy.** Large Animal Forum - Veterinary Technician Forum, North Carolina Veterinary Conference, Research Triangle Park, NC. (2007)
 - **Borna disease in horses.** 4th Annual Neuropathology Workshop, “Infectious & Inflammatory CNS Disease,” recognized by the German Society of Neuropathology & Neuroanatomy and the German Veterinary Society, Munich, Germany. (2004)

Invited Seminars Given to Lay Audiences

- ***Equine vision: How can I tell if my horse's vision is compromised?*** Horse Course Auburn University, Auburn, AL (2017)
- ***Equine ocular emergencies: What to look for and how to respond.*** Horse Course Auburn University, Auburn, AL (2017)

- ***Diseases of the equine eye – from initial presentation to surgical intervention.*** German Riding Federation [Deutsche Reiterliche Vereinigung] – individual members. Equine Clinic Munich-Riem, Munich, Germany. (2014)

- ***Ocular diseases of the horse – current treatment approaches.*** 10th Anniversary German Boarding Stable Owners Association, Riding Stable Laurent, Eicherloh, Germany. (2013)

- ***Common ocular problems in horses.*** Owner education. Reidsville, NC. (2008)
- ***Emergencies & common ocular problems in horses.*** North Carolina State University Equine Health Program – Owner Education, Equine Health Center, Southern Pines, NC. (2008)