

Sara M. Smith, DVM, MS

EDUCATION

- University of Pennsylvania School of Veterinary Medicine**; Philadelphia, PA 2020
Comparative Veterinary Ophthalmology Residency
- North Carolina State University, Department of Clinical Sciences**; Raleigh, NC 2017
Ophthalmology Research Fellowship
- Colorado State University Veterinary Teaching Hospital**; Fort Collins, CO 2016
Small Animal Medicine and Surgical Internship
- North Carolina State University College of Veterinary Medicine**; Raleigh, NC 2015
Doctor of Veterinary Medicine
Phi Zeta Honor Society
- Virginia-Maryland Regional College of Veterinary Medicine**; Blacksburg, VA 2011
Master of Science in Biomedical and Veterinary Sciences
Focus: Molecular Virology
- Virginia Polytechnic Institute and State University**; Blacksburg, VA 2009
Bachelor of Science – Biological Sciences, Minor in Chemistry
Summa Cum Laude

PUBLICATIONS

Journal Articles

- Smith SM**, Salmon JH, Abbaraju S, Amin R, Gilger BC. Tolerability, pharmacokinetics, and pharmacodynamics of a brinzolamide episcleral sustained release implant in normotensive New Zealand White rabbits. *Journal of Drug Delivery Science and Technology*. In press Sept 2020.
- Smith, SM**, Holt, E, Aguirre, GD. Conjunctival staining with lissamine green as a predictor of tear film deficiency in dogs. *Veterinary Ophthalmology*. 2020; 23: 624– 631.
- Wu D, **Smith SM**, Stine JM, Michau TM, Miller TR, Pederson, SL, Freeman KS. Treatment of spontaneous chronic corneal epithelial defects (SCCEDs) with diamond burr debridement vs combination diamond burr debridement and superficial grid keratotomy. *Veterinary Ophthalmology*. 2018; 21: 622-631.
- Smith SM**, Westermeyer HD, Mariani CL, Gilger BC, Davidson MG. Optic neuritis in dogs: 96 cases (1983-2016). *Veterinary Ophthalmology*. 2018; 21: 442-451.
- Hirsch ML, Conaster LM, **Smith SM**, Salmon JH, Wu J, Buglak NE, Davis R, Gilger BC. AAV vector-mediated expression of HLA-G reduces injury-induced corneal vascularization, immune cell infiltration, and fibrosis. *Scientific Reports*. 2017; 1-11.
- Smith SM**, Abbaraju S, Salmon JH, Amin R, Weiss S, Grau U, Velagaleti P, Gilger BC. Evaluation of pentablock co-polymer (PTS_{sol}) for sustained topical ocular drug delivery. *Journal of Ocular Pharmacology and Therapeutics*. 2017; 39:475-483.
- Schaefer E, **Smith SM**, Salmon JH, Abbaraju S, Amin R, Weiss SL, Grau U, Velagaleti P, Gilger BC. Evaluation of intracameral pentablock copolymer thermosensitive gel for sustained drug delivery to the anterior chamber of the eye. *Journal of Ocular Pharmacology and Therapeutics*. 2017; 33(5):353-360.

Beach NM, **Smith SM**, Ramamoorthy S, Meng X-J. Chimeric porcine circoviruses (PCV) containing amino acid epitope tags in the C terminus of the capsid gene are infectious and elicit both anti-epitope tag antibodies and anti-PCV type 2 neutralizing antibodies in pigs. *Journal of Virology*. 2011; 85(9):4591-4595.

Scientific Abstracts

Smith SM, Holt E, Aguirre GD. Conjunctival staining with lissamine green as a predictor of tear film deficiency in dogs. *50th Annual Meeting of American College of Veterinary Ophthalmologists*, Maui, HI 2019.

Smith SM, Westermeyer HD, Mariani CL, Gilger BC, Davidson MG. Optic neuritis in dogs: 96 cases (1983-2016). Oral presentation. *48th Annual Meeting of American College of Veterinary Ophthalmologists*, Baltimore, MD 2017:20,6, E9.

Smith, SM, Salmon JH, Abbaraju S, Amin R, Weiss SL, Velagaleti P, Grau U, Gilger BC. Evaluation of PTS*sol* for sustained topical ocular drug delivery. Abstract 4756, oral presentation. *Annual Meeting of the Association for Research in Vision and Ophthalmology*, Baltimore, MD. May 2017.

Smith SM, Stine J, M.-Michau T, Miller TR, Pederson S, Freeman KS. Diamond burr debridement combined with superficial grid keratotomy versus diamond burr debridement alone for the management of spontaneous chronic corneal epithelial defects (SCCED): a retrospective study of 347 dogs. *47th Annual Meeting of the American College of Veterinary Ophthalmologists*, Monterey, CA 2016:17.

Smith SM, Beach NM, Meng X-J. Synthetic DNA shuffling of type 2 porcine circovirus (PCV2) for production of novel chimeric vaccine candidates. Oral presentation, Annual Research Symposium of Virginia-Maryland College of Veterinary Medicine, Blacksburg, VA. Nov 2010.

PROFESSIONAL ASSOCIATIONS and ACTIVITIES

American Veterinary Medical Association	2015 - present
Association for Research in Vision and Ophthalmology	2016 - present
Colorado Veterinary Medical Association	2020 - present
Scientific Reviewer for <i>Veterinary Ophthalmology</i> Journal	2020

ACCOMPLISHMENTS AND AWARDS

Phi Zeta Veterinary Honor Society	2014
Ovarian Cancer Symptom Awareness Veterinary Student Scholarship	2013
NCAA Postgraduate Scholarship Recipient	2009
Virginia Tech Scholar Athlete of the Year & Women's Swimming and Diving Most Valuable Performer	2009
Atlantic Coast Conference Swimming & Diving Scholar Athlete of the Year	2008
NCAA Athletic and Academic All American	2007-2009