

Stephanie Shrader, D.V.M., Ph.D., Diplomate, A.C.V.P.

Owner / Consultant Anatomic Pathologist, Shrader Consulting LLC

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- Education:* Ph.D., Biomedical Sciences, Auburn University, Auburn, Alabama. 2020.
- Veterinary Anatomic Pathology Residency, Auburn University College of Veterinary Medicine, Auburn, Alabama. 2016.
- DVM, Virginia-Maryland Regional College of Veterinary Medicine, Virginia Tech, Blacksburg, Virginia. 2012.
- BS, Biological Sciences, Wilson College, Chambersburg, Pennsylvania. 2006.
- Licensure:* Maine Veterinary License # VT2829.
- Certification:* Diplomate, American College of Veterinary Pathologists, 2016.

Present Position and Experience:

SEP 2025 – Present Consultant Anatomic Pathologist/Owner Shrader Consulting, LLC. Provides contracted primary and peer review anatomic pathology services for GLP and non-GLP studies for contract research organizations, pharmaceutical companies, biotechnology companies, and academic institutions. Primary focus is on ocular studies with extensive experience in the following: ocular routes of administration, a wide range of therapeutic modalities, commonly used laboratory species (mice, rats, rabbits, dogs, and nonhuman primates), systemically administered therapeutics that result in ocular pathology, and ocular medical devices. Also provides primary and peer review anatomic pathology services for standard GLP and non-GLP nonclinical safety assessment studies, 6-month Tg-rasH2 mouse and 2-year rat carcinogenicity studies, and characterization of animal models of human disease. Experience with evaluation of biologics, small molecules, and cell and gene therapy products. Able to directly enter data into client-owned instances of Provantis. Additional services include necropsy supervision, laboratory assistance, and study design assistance.

Previous Employment:

2024 – 2025

Vice President, Pathology Solutions, StageBio.

Provided oversight of the organization's veterinary pathology, necropsy, and research associate groups to ensure operational efficiencies, scientific rigor, and client satisfaction. Assisted with the development of short- and long-term company objectives, developed and led team objectives, developed and implemented numerous process improvements, collaborated with others in leadership, established group budgets and marketing plans, identified new growth channels, maintained/built internal relationships and fostered team growth, developed/revised SOPs, participated in screening, interviewing, and onboarding of new hires and consultants, performed annual reviews for direct reports, worked with the Commercial Team to maximize networking opportunities and develop new marketing materials, served as a subject matter expert, and provided client/Sponsor guidance. Also provided general oversight of the General Toxicologic Pathology Mentorship Program, led the ocular service line, and provided oversight of all contracted pathologist and statistician consultants utilized by the company. Continued to function as a Senior [Anatomic] Pathologist (responsibilities listed below).

2022 – 2024

Director, General Toxicologic Pathology, StageBio.

Led and supervised up to 16 staff pathologists and 4 contracted consultant pathologists. Assisted with the development of short- and long-term team objectives, collaborated with others in leadership, established team budgets and marketing plans, identified new growth channels, maintained/built internal relationships and fostered team growth, developed/revised SOPs, determined pathologist attendance for annual symposia/meetings, participated in new hire screenings, interviews, and onboarding, performed annual reviews for direct reports, worked with the Commercial Team to maximize company visibility, served as a subject matter expert, provided client/Sponsor guidance, established and provided general oversight of the General Toxicologic Pathology Mentorship Program, and established and led the ocular service line. Continued to function as a Senior Pathologist (responsibilities listed below).

2019 – 2025

Senior [Veterinary Anatomic] Pathologist, StageBio.

Independently performed GLP and non-GLP primary evaluations and peer review evaluations using glass slides and whole slide images [WSIs] (for nonclinical safety assessment studies, 6-month Tg-rasH2 mouse and 2-year rat carcinogenicity studies, and characterization of animal models of human disease), captured INHAND/SEND-compliant pathology data in Provantis, Pristima, and Microsoft Excel, prepared anatomic pathology reports delineating findings, performed morphometric analyses using a variety of software applications, provided in-person necropsy

supervision, and provided clients/Sponsors with study design input (particularly for ocular studies). Experienced with data entry into client-owned instances of Provantis.

2017 - 2019

Veterinary [Anatomic] Pathologist II, Charles River Laboratories, Spencerville OH.

Independently performed GLP and non-GLP primary evaluations and peer review evaluations using glass slides (for nonclinical safety assessment studies, 6-month Tg-rasH2 mouse carcinogenicity studies, and characterization of animal models of human disease), captured INHAND/SEND-compliant pathology data in Provantis and Microsoft Excel, prepared anatomic pathology reports delineating findings, performed morphometric analyses using a variety of software applications, and provided in-person necropsy supervision. Worked closely with the necropsy and histology laboratory technicians to improve procedures and policies. Served as IACUC chairperson, playing an integral role in various committees, development/revision of associated SOPs, and facility inspections. Was awarded the Innovation Fund Research Grant (2018) to conduct primary research on the morphometric characteristics of Göttingen minipig eyes.

2016 - 2017

Clinical Lecturer, Auburn University College of Veterinary Medicine, Auburn AL.

Excelled in diagnostic necropsies, biopsy evaluations, and report generation. Worked closely with internal and external ophthalmologists to establish myself as the regional go-to pathologist for diagnostic ocular pathology. Collaborated with clinicians on differential diagnoses, diagnostic modalities, and treatment choices. Independently led course set-up, laboratory instruction, and didactic lectures in the veterinary and graduate curricula. Assisted with grant writing for PhD and MS research projects.

Professional Memberships:

- Roundtable of Toxicology Consultants, 2025 – Present
- Society of Toxicology, 2023 – Present
 - Member, Ocular Toxicology Specialty Section, 2023 – Present
- American College of Toxicology, 2023 – Present
- International Society of Ocular Toxicology, 2017 – Present
- International Society of Veterinary Ophthalmology, 2017 – Present
- American College of Veterinary Pathologists, 2016 – Present
- Davis-Thompson Foundation 2015 – Present
 - Newsletter editor, 2020 – 2022
- Society of Toxicologic Pathology, 2015 – Present

- Member, Digital Pathology and Image Analysis Special Interest Group, 2017 – Present
- Member, Special Senses Organ Pathology Special Interest Group, 2017 – Present
- Member, Career Development and Outreach Committee (CDOC), 2020 – 2023

Awards/Honors:

- Phi Zeta Society, Epsilon Chapter, Auburn University, 2014
- C.L. Davis Foundation Student Scholarship Award, 2014
- Delta Epsilon Iota Academic Honor Society, 2013
- Alfred Angrist Prize in Necropsy Pathology, 2012
- John G Salsbury Scholarship, 2011
- Dr. Robert C. Hammond Scholarship, 2010

Scholarly Activities:

- Journal manuscript reviewer:
 - BMC Ophthalmology, 2025 – Present
 - Toxicologic Pathology, 2019 – Present
 - Journal of the American Veterinary Medical Association, 2017 – Present
 - Open Veterinary Journal, 2016 – Present
- Charles River Laboratories, Spencerville, Ohio IACUC committee
 - Member, 2017 – 2019
 - Chairperson, 2018 – 2019
- Masters project committee member (co-investigator)
 - Title: Trilineage Differentiation of Equine Bone Marrow Derived MSCs,” 2017 – 2018
 - Title: “Immunohistochemical investigation of tear producing structures in the Small eyed (Pax6 +/-) Mouse,” 2015 – 2018
- Independent Study at the Comparative Ocular Pathology Laboratory of Wisconsin (COPLOW). Madison, Wisconsin, 2016

Volunteerism:

- Houlton Humane Society, Board Member: 2025 – Present
- Johnny Appleseed Metropolitan Park District: 2021 – 2023
- The Ohio Academy of Science State Science Day Judge: 2019 – 2022
- Letters to a Pre-Scientist: 2019 – 2022
- Friends of the Opelika Wood Duck Heritage Preserve and Siddique Nature Park, Board Member: 2013 - 2017

Publications:

1. **Shrader SM.**, Njaa BL., Vrolyk V., Chamanza R., Boyd RF., Benoit-Biancamano M.-O., Kumar P., McInnes EF., & Haruna J. Eye and Ocular Appendages/Ear - Special Senses. In Pathology of Laboratory Swine. Elsevier. *In Press*.
2. Velloso Alvarez A, Wooldridge AA, Fuller Joseph, **Shrader SM**, Mansour M, Boone L. Culture media supplemented with 10% equine serum provided chondroprotection in an in vitro long-term cartilage and synovial membrane co-culture of OA. *Journal of Equine Veterinary Science*. September 2023.
3. Corey TM, Woodley VV, O'Connor M, Doyle S, Connolly E, **Shrader SM**, Phipps C, Isaac K, Lawrence M. Evaluation of the dose-dependent inflammatory response and no-observable adverse effect level of intravitreal endotoxin in the African green monkey. *Translational Vision Science and Technology*. 11(8):17. August 2022.
4. **Shrader SM**. Australian Labradoodle Dystrophinopathy: A Novel Canine Model for the Study of Duchenne Muscular Dystrophy Cardiomyopathy (Doctoral dissertation from Auburn University, Auburn, Alabama). Available from Auburn University Electronic Theses and Dissertations Database. Retrieved from <http://hdl.handle.net/10415/7150>.
5. **Shrader SM**, Wrighten R, Smith BF. *Animal Models for Muscle Disease and Muscle Gene Therapy*. In: *Muscle Gene Therapy*, edited by Dongsheng Duan and Jerry Mendell, 2nd ed., Springer Nature Switzerland AG. 2019.
6. **Shrader SM** and Mowry R. Histomorphometric Evaluation of the Göttingen Minipig Eye. *Veterinary Ophthalmology*. 22(6):872-878. November 2019.
7. **Shrader SM**, Jung S, Denney TS, Smith BF. Characterization of Australian Labradoodle Dystrophinopathy. *Neuromuscular Disorders*. 28(11): 927–937. November 2018.
8. **Shrader SM** and Greentree WF. Göttingen Minipigs in Ocular Research. *Toxicologic Pathology*. 46(4):403-407. June 16, 2018.
9. **Shrader S**, Fish E, Mora Pereira M, Groover E, Christopherson P. Disseminated Lymphoma (With Large Granular Lymphocyte Morphology) With Concurrent Bone Marrow Hypocellularity and Pancytopenia in a Horse. *Journal of the American Veterinary Medical Association*. 252(12): 1477-1480. June 15, 2018.
10. **Shrader SM**, Fish EJ, Newcomer BJ. What is your diagnosis? Mediastinal mass in a dromedary camel. *Veterinary Clinical Pathology*. 47(1):164-165. March 2018.
11. Visser M, Walz H, **Shrader S**, Koehler J, Bellah J. Central Nervous System B-cell Lymphoma in a Bald Eagle (*Haliaeetus leucocephalus*). *The Journal of Avian Medicine and Surgery*. 32(1):40-44. March 2018.
12. Schkeeper AE, Moon R, **Shrader S**, Koehler JW, Linden D, Taylor AR. Imaging Diagnosis – Magnetic Resonance Imaging Features of a Multifocal Oligodendroglioma in the Spinal Cord and brain of a Dog. *Veterinary Radiology and Ultrasound*. 58(5):E49-E54. 2017.
13. Kepler D, Cole R, Lee-Fowler T, Koehler J, **Shrader S**, Newton J. Imaging Diagnosis - Pulmonary Pythiosis in a Canine Patient. *Veterinary Radiology and Ultrasound*. 1-4. May 25, 2017.

14. Rodriguez Galarza R, **Shrader S**, Koehler J, Abarca E. A case of basal cell carcinoma of the nictitating membrane in a dog. *Clinical Case Reports*. October 28, 2016.
15. **Shrader S**, Lai S, Cline K, Moon R. Gliomatosis cerebri in the brain of a cat. *Veterinary Sciences*. 3(3), 13. June 27, 2016.
16. **Shrader S**, Lauridson JR, King Z, Loch J. Urachal Adenocarcinoma in a Dog. *Journal of Comparative Pathology*. 154:304-308. May 2016.
17. Barba M., Stewart AJ, **Shrader SM**, Koehler JW, Johnson AK, Caldwell FJ. Keratitis and periocular lesions associated with equine herpesvirus-3 in a 3-month-old filly. *Equine Veterinary Education*. 27(12):618-622. June 2015.
18. **Shrader SM**, Ellis AE, Howerth EW. Hepatic and splenic myelocytomatosis in an eastern screech owl. *Pathology in Practice. Journal of the American Veterinary Medical Association*. 244(12):1393-1395. June 2014.
19. **Shrader S**, Robertson J. *Copper Toxicity in the Canine Liver*. In: Westie Health e-Book. Westie Foundation of America, Inc. <http://www.westiefoundation.org/>. 2009.
20. **Shrader S**, Robertson J. *Diabetes Mellitus*. In: Westie Health e-Book. Westie Foundation of America, Inc. <http://www.westiefoundation.org/>. 2008.

Poster Presentations:

1. Iwabe S, **Shrader SM**, Buccellato M, Burdick J, Makori N, Aguirre GD. Bestrophin-Like Lesions Described in Dutch-Belted Rabbits. Society of Toxicology Annual Meeting. March 2025.
2. **Shrader S**. Necropsy, Histology, and Pathology Considerations in Ocular Toxicity Studies. Society of Toxicology Annual Meeting. March 2024.
3. Iwabe S, **Shrader SM**, Buccellato M, Linehan S, Ferron G, Burdick J, Makori N, Aguirre, GD. Ocular Imaging Followed by Microscopic Analysis of Focal Chorioretinal Defects in Dutch-Belted Rabbits. Society of Toxicology Annual Meeting. March 2023.
4. Iwabe S, **Shrader SM**, Linehan S, Burdick J, Aguirre, GD. In vivo and histological analysis of focal chorioretinal defects in Dutch Belted rabbits. American College of Toxicology Annual Meeting. November 2022.
5. **Shrader SM**, Greentree WF. Utilizing Gottingen Minipigs in Ocular Research – Review and Current Perspectives. ACVP Annual Meeting. Vancouver, British Columbia, Canada. November 2017.
6. **Shrader SM**, Jung S, Smith BF. Characterization of Australian Labradoodle Dystrophinopathy. ACVP Annual Meeting. Vancouver, British Columbia, Canada. November 2017.
7. **Shrader SM**. Phenotypic Characterization of Labradoodle Dystrophinopathy. This is Research: Student Symposium. Auburn University, Auburn, Alabama. April 2017.
8. **Shrader SM**, Jung S, Denney T, Smith BF. Phenotypic Characterization of Labradoodle Dystrophinopathy. Muscular Dystrophy Association Scientific Conference, Arlington, Virginia. May 2017.
9. **Shrader SM**. Elucidating the Mechanisms Underlying Duchenne Muscular Dystrophy Cardiomyopathy. Auburn University This is Research: Student Symposium. Auburn University, Auburn, Alabama. April 2015.

10. **Shrader SM**, Koehler JW, Barba Recreo M, Stewart A. Isolation of Equine Herpesvirus 3 from Corneal and Cutaneous Lesions in a Three-Month-Old Foal. ACVP Annual Meeting. Atlanta, Georgia. November 2014.
11. **Shrader SM**, Newton JC, Wilborn RR. First Potential Case of Nocardioform Placentitis in a Mare from Alabama. ACVP Annual Meeting. Montreal, Quebec, Canada. November 2013.

Oral Presentations:

1. Papenfuss T and **Shrader S**. Exploratory Pathology in Action: Advancing Nonclinical Drug Development Across Therapeutic Areas. Xtalks Webinar. March 2025.
2. **Shrader S**. Necropsy, Histology, and Pathology Considerations in Ocular Toxicity Studies. Society of Toxicology Annual Meeting. March 2024.
3. Barone F, **Shrader S**, Ferron G. Ocular Imaging Followed by Microscopic Analysis of Focal Chorioretinal Defects in Dutch-Belted Rabbits. Webinar. November 2023.
4. **Shrader SM**. Ocular Toxicity Studies: Technical Considerations and Pathology Reporting Expectations. Xtalks Webinar. March 2023.
5. **Shrader SM**. Ocular Toxicity Studies: Technical Considerations and Pathology Reporting Expectations. Talking Tox Program. American College of Toxicology Annual Meeting. November 2022.
6. **Shrader SM**. Introduction to Toxicologic Pathology and Reporting in Non-Clinical Safety Assessment. Descriptive Veterinary Pathology Course. Charles Louis Davis and Samuel Wesley Thompson DVM Foundation. Virtual. June 2020.
7. **Shrader SM**. Gotta Have a Göttingen: The minipig leading the way in ocular research. Central Ohio Branch of American Association for Laboratory Animal Science (AALAS) Technical Information Exchange (TIE) Meeting. Columbus, Ohio. March 2018.
8. **Shrader SM**, Jung S, Smith BF. Characterization of Australian Labradoodle Dystrophinopathy. ACVP Annual Meeting. Vancouver, British Columbia, Canada. November 2017.
9. **Shrader SM**. Innovations in Gene Therapy for the Treatment of Duchenne Muscular Dystrophy. Auburn University Pathobiology Research Seminar. Auburn, Alabama. May 2016.
10. **Shrader SM**, Koehler JW, Rodriguez R, Moore P. Case of Canine Glaucoma. South Eastern Veterinary Pathology Conference. Tifton, Georgia. May 2015.
11. **Shrader SM**, Koehler JW, Whitley E. An Uncommon Cause of Chorioretinitis in a Dog. South Eastern Veterinary Pathology Conference. Tifton, Georgia. May 2014.
12. **Shrader SM**. Duchenne Muscular Dystrophy and the Manifestation of Cardiac Disease. Auburn University Pathobiology Research Seminar. Auburn, Alabama. June 2014.
13. **Shrader SM**, Weiss RC, Caldwell F. An Enlarging Pectoral Mass in a Thoroughbred Horse. South Eastern Veterinary Pathology Conference. Tifton, Georgia. May 2013.