

JACQUELINE PATRICE KURZ

Clinical Assistant Professor / Veterinary Anatomic Pathologist
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SUMMARY

American College of Veterinary Pathologists Board-certified veterinary anatomic pathologist. Currently working as an Assistant Clinical Professor and veterinary anatomic pathologist for the Wyoming State Veterinary Laboratory, University of Wyoming. PhD in animal molecular genetics at Utah State University. Veterinary graduate of the University of Edinburgh, Scotland. Supporting BS degree in animal science, and experience in veterinary research, regulated laboratory procedures, and livestock husbandry. Member of the Royal College of Veterinary Surgeons (United Kingdom).

EDUCATION

Veterinary Anatomic Pathology Residency – 2011 to 2017
Utah Veterinary Diagnostic Laboratory, Utah State University – Logan, UT

PhD, Animal Molecular Genetics – 2018
Utah State University – Logan, UT

BVM&S (DVM equivalent, AVMA-accredited), with Distinction – 2010
University of Edinburgh, Royal (Dick) School of Veterinary Studies – Edinburgh, UK

BS, Animal Science, *magna cum laude* – 2006
Cornell University, College of Agriculture and Life Sciences – Ithaca, NY

EXPERIENCE

UNIVERSITY OF WYOMING

2020-present

Clinical Assistant Professor and Extension Diagnostic Veterinary Pathologist, Department of Veterinary Science

American College of Veterinary Pathologists Board-certified anatomic veterinary pathologist with extension veterinary pathologist (80%), teaching (12%), research and creative activity (5%), and departmental service/advising (3%) duties. Veterinary pathologist duties include performance, interpretation, and reporting of necropsies and histopathology; interpretation of ancillary testing for diagnostic and research cases; and section head of Accessioning, Necropsy, and Trimming sections. Teaching responsibilities include development and teaching of upper level undergraduate/graduate course on microscopic anatomy spring semesters, and guest lectures in other courses.

UTAH STATE UNIVERSITY

2017-2020

Clinical Assistant Professor and Extension Veterinary Pathologist, Department of Animal, Dairy, and Veterinary Sciences

American College of Veterinary Pathologists Board-certified anatomic veterinary pathologist with extension veterinary pathologist (70%), teaching (25%), and departmental service (5%) duties. Extension veterinary pathologist duties include performance, interpretation, and reporting of necropsies, histopathology, and

ancillary testing for diagnostic and research cases. Section Head of Clinical Pathology laboratory section. Teaching responsibilities include course director and co-instructor of graduate-level course in laboratory animal research, co-instructor for courses in the USU veterinary and graduate schools, resident training and certification examination preparation, and training of veterinary/undergraduate students.

UTAH STATE UNIVERSITY

2011-2017

Veterinary Anatomic Pathology Resident

Veterinary residency working toward eligibility for Board certification under the American College of Veterinary Pathologists. Duties involved primary case responsibility for animals submitted for necropsy and samples submitted for surgical pathology, and graduate teaching assistant assignments in Microscopic Anatomy, General Pathology, and Systemic Pathology at the veterinary school level. This was a combined anatomic pathology residency and PhD program.

UNIVERSITY OF EDINBURGH AND AVIAGEN – Edinburgh, UK

2010

Poultry Medicine Elective Rotation

Veterinary rotation working with the poultry veterinary service at the University of Edinburgh and the global poultry genetics company Aviagen. Duties performed included poultry handling, health and welfare assessment, disease detection and treatment, post mortem examination, egg quality assessment, and flock management.

UNIVERSITY OF EDINBURGH, VETERINARY PATHOLOGY UNIT – Edinburgh, UK

2009

Research Assistant

Member of scientific research team investigating causes of mortality in red squirrels in Scotland, contributing to knowledge vital to wildlife conservation efforts. Lead author on resulting publication.

- Completed project far ahead of schedule, successfully co-authoring a scientific paper published by the UK veterinary journal *Veterinary Record*. See Publications, *infra*.
- Conducted literature review to define scope of project.
- Contributed to the data set by performing post mortem examinations on squirrels.
- Organized and consolidated raw data from the post mortem records of over 250 squirrels.
- Identified within the data set and performed statistical analysis of data to verify and quantify findings.
- Coordinated team meetings for presentation and discussion of project updates.
- Prepared written and graphical presentation of the data, findings, and conclusions of the project.

VETERINARY PRACTICES AND SERVICES – UK and USA

2008-2010

Clinical Veterinary Extramural Work Placements

Clinical veterinary work external to university schooling included placements in small animal practice (10 weeks), farm animal practice (2 weeks), farm assurance assessment (2 weeks), equine hospital/intensive care (2 weeks), exotics/wildlife hospital (1 week), and abattoir (1 week). Duties included assistance with client consultations, clinical examination, patient monitoring and treatment, disease diagnosis, surgery, post mortem examination, herd health evaluation, client communication, and welfare assessment.

ADVION BIOSERVICES – Ithaca, NY

2001-2006

Laboratory Technician Intern

Performed and documented instrument and laboratory maintenance, sample custody, and clinical supply logistics in a regulated bioanalytical laboratory.

- Successfully maintained wet chemistry laboratory and sample custody facilities in compliance with Good Laboratory Practices of the FDA and Health and Safety requirements of OSHA.
- Ensured correct and precise function of scientific equipment through maintenance in accordance with Standard Operating Procedures.
- Practiced requirements in handling and custody of biological samples from FDA-regulated preclinical and clinical studies.

CORNELL UNIVERSITY SHEEP RESEARCH & TEACHING UNIT – Hartford, NY

2002-2005

Farm Worker

Responsible for the husbandry of sheep, including lambing ewes and lambs, in a 750-ewe flock.

- Contributed to reduced lamb mortality by providing assistance to lambing ewes and supportive care for weak/orphaned lambs.
- Identified, and assisted in the correction of, potential livestock health and welfare issues.
- Provided support to university students and research teams by demonstrating correct sheep handling techniques and assisting with the collection of blood samples.

HEGDALE FARM – Cumbria, UK

2004

Resident Farm Worker

Responsible for the daily husbandry and management of sheep, calves, and free-range poultry on a small family-run farm.

- Identified several areas of livestock management requiring improvement, and successfully promoted changes to significantly improve animal productivity, health, and welfare.

PROFESSIONAL AFFILIATIONS

Diplomate, American College of Veterinary Pathologists

Member of the Royal College of Veterinary Surgeons (United Kingdom)

Member of the American Association of Veterinary Laboratory Diagnosticians

PUBLICATIONS

J. B. Westover, B. T. Hickerson, A. J. Van Wettere, B. L. Hurst, **J. P. Kurz**, A. Dagley, P. Wulfroth, T. Komeno, Y. Furuta, T. Steiner, and B. B. Gowen. (2019) Vascular leak and hypercytokinemia associated with severe fever with thrombocytopenia syndrome virus infection in mice. *Pathogens* 8(158). DOI 10.3390/pathogens8040158.

J. P. Kurz, M. P. Richards, M. Garcia, and Z. Wang. (2019) Exogenous phospholipase A2 affects inflammatory gene expression in primary bovine mammary epithelial cells. *Journal of Dairy Research* 86(2), 1-4. DOI 10.1017/S0022029919000232.

J. P. Kurz, Z. Yang, R. B. Weiss, D. J. Wilson, K. A. Rood, G. E. Liu, and Z. Wang. (2018) A genome-wide association study for mastitis resistance in phenotypically well-characterized Holstein dairy cattle. *Immunogenetics* 71(1). DOI 10.1007/s00251-018-1088-9.

A. J. Van Wettere, **J. P. Kurz**, A. Wilhelm, J. D. Ipsen. (2018) Opisthotonos and unilateral internal hydrocephalus associated with aberrant migration of *Serratospiculum* sp. or *Seratospiculoides* sp. in a prairie falcon. *Journal of Veterinary Diagnostic Investigation* 30(5). DOI 10.1177/1040638718777284.

J. P. Kurz, K. E. Schoenhals, G. A. Hullinger, A. J. Van Wettere. (2018) Syringomyelia in an adult American Paint Horse. *Veterinary Sciences* 5(39). DOI 10.3390/vetsci5020039.

D. J. Wilson and **J. P. Kurz**. (2017) Genetic sequencing using 16S rRNA for pathogen identification in retropharyngeal lymph nodes from wild elk. *Human-Wildlife Interactions* 11(1), 19-21.

J. P. LaRose, A.L. Meredith, D.J. Everest, C. Fiegna, C.J. McInnes, D.J. Shaw, and E.M. Milne. (2010) Epidemiological and post-mortem findings from 262 red squirrels (*Sciurus vulgaris*) in Scotland (2002-2009). *Veterinary Record* 167, 297-302. DOI 10.1136/vr.c4196.

COURSES TAUGHT

Course Director / Instructor: Microscopic Anatomy, PATB 4300 / 5300 (upper undergraduate/graduate course). University of Wyoming, Laramie, WY, Spring 2022. Lecture and laboratory sections.

Co-Instructor: Seminar in Veterinary Pathology and Histopathology, ADVS 6680 (anatomic pathology resident course). Utah State University, Logan, UT, Spring/Fall 2018, Spring/Fall 2019, Spring 2020.

Course Director and Co-Instructor: Principles of Laboratory Animal Research, ADVS 6070 (graduate course). Utah State University, Logan, UT, Spring 2019.

Co-Instructor: Systemic Pathology, VM 7546 (veterinary medicine course). Utah State University, Logan, UT. Lecture and laboratory sections.

Musculoskeletal System, lectures: Fall 2019

Ruminant Abomasum & Forestomach, lectures – Fall 2019, 2018, 2017, 2016, 2015, 2014, 2013.

Lower Gastrointestinal System: Intestine, lectures – Fall 2019, 2018, 2017, 2016, 2015.

Lymphoid System, lecture preparation – Fall 2020.

Facilitator: Clinical Pathology, VM 7589 (veterinary medicine course). Utah State University, Logan, UT, Fall 2018.

GUEST LECTURES AND WORKSHOPS GIVEN

“Bovine Mastitis.” Diseases of Food Animals, PATB 4110, guest lecture. University of Wyoming, Laramie, WY. 24 September 2021.

“The Bighorn Sheep Mystery.” University of Wyoming Cowboy Connects Program 2021, student welcome activity and presentation. Laramie, WY. 20 August 2021.

“Lamb Polyarthritis.” Wyoming Wool Growers Association Summer Meeting 2021, lecture. Lander, WY. 11 August 2021.

“Captivate Them: Tips for a Stunning Presentation.” University of Wyoming Dept. of Veterinary Science Graduate Student Retreat, 2021, lecture. Virtual. 19 January 2021.

"What Does the Pathologist See? How to Get the Most from your Diagnostic Lab Submissions." Wyoming Veterinary Medical Association Winter Conference 2020, lecture. Virtual. 12 December 2020.

"Molecular Basis of Neoplasia." General Pathology, VM 7545, lecture. Utah State University, Logan, UT. 25 April 2019.

"An Outbreak of Vitamin D Toxicosis in Rabbits." American College of Veterinary Pathologists Annual Meeting, platform presentation. Washington, D. C. 4 November 2018.

"Poultry and Laboratory Rodent Necropsy Technique." Veterinary Services Grant Program, workshop. Utah Veterinary Diagnostic Laboratory, Utah State University, Logan, UT. 19 May 2018.

"Field Necropsy Technique." Veterinary Services Grant Program, lecture. Utah Veterinary Diagnostic Laboratory, Utah State University, Logan, UT. 19 May 2018.

"How to Get the Most from your Diagnostic Laboratory Submissions." Veterinary Services Grant Program, lecture. Utah State University, Logan, UT. 18 May 2018.

"Genetic Markers of Bovine Mastitis Resistance." Animal, Dairy, and Veterinary Science/Center for Integrated Biotechnology Seminar Series, lecture. Utah State University, Logan, UT. 7 September 2017.

"Case Study: Hyperkalemic Periodic Paralysis in a Quarter Horse." Veterinary Physiology I, VM 7519, lecture. Utah State University, Logan, UT. October 2015 and October 2014.

"Digestive System: Intestine." Microscopic Anatomy, VM 7510, lecture. Utah State University, Logan, UT. October 2012.

RESEARCH SUPPORT

2021-2022: Paratuberculosis in Wyoming bighorn sheep. Wyoming Agricultural Experiment Station Hatch Grant Program, \$4,000 awarded.

2014-2015: Molecular characterization of the involvement of phospholipid A2 (PLA2) in the immune response to mastitis pathogens in dairy cattle in vivo and in vitro. PI: Z. Wang. Utah Agriculture Experiment Station Grants Program, \$9,004.52 awarded.

2013-2014: Differences in production of IL-1 β , IL-6, and TNF- α by cultured bovine mammary epithelial cells from mastitis-resistant and mastitis-susceptible Holstein dairy cows. PI: D.J. Wilson, Co-PI: J. LaRose. Utah Agriculture Experiment Station Grants Program, \$10,000 awarded.

PROFESSIONAL MEETINGS ATTENDED

American College of Veterinary Pathologists Annual Meeting, virtual, 2021.

Wyoming Wool Growers Association Summer Meeting, Wednesday session, Lander, WY, 2021.

Wyoming Veterinary Medical Association Winter Meeting, Saturday session, virtual, 2020.

American College of Veterinary Pathologists Annual Meeting, virtual, 2020.

American College of Veterinary Pathologists Annual Meeting, Washington D. C., 2018.

American College of Veterinary Pathologists Annual Meeting, Minneapolis, MN, 2015.

American College of Veterinary Pathologists Annual Meeting, Atlanta, GA, 2014.

PROFESSIONAL DEVELOPMENT ACTIVITIES

Attended: ACVP/Davis-Thompson Foundation Workshop Soft Tissue Sarcomas are Hard, virtual, October 2021.

Attended: CL Davis Foundation Standardizing Tumor Pathology Part 1, virtual, September 2021.

Attended: Ellbogen Center for Teaching and Learning Faculty Learning Circle, University of Wyoming, virtual, 2020-2021 academic year.

Attended: Empowering Teaching Excellence Learning Circle: Evidence-based Teaching, Utah State University, Logan, UT, 2020.

Certificate in Conflict Management (USU CVM). Utah State University, Logan, UT, 2020.

Attended: Empowering Teaching Excellence Conference: Learn, Discover, Engage. Utah State University, Logan, UT, 2019.

Completed: Cultural Competence Course, online. Utah State University, Logan, UT, Spring 2019.

Attended: Empowering Teaching Excellence Faculty Seminar: Impactful Teaching Practices – Plan, Implement, and Evaluate. Utah State University, Logan, UT, 31 January 2019.

Completed: Emerging and Exotic Diseases of Animals Course, online. Iowa State University, 2018.

Attended: Empowering Teaching Excellence Conference: The Art and Science of Teaching. Utah State University, Logan, UT, 2018.

Attended: Empowering Teaching Excellence Faculty Seminar: Connecting with your Students: Student Retention through Mentoring and Caring. Utah State University, Logan, UT, 15 Aug 2018.

Attended: Research and Graduate Studies Faculty Seminar: Major Proposal Blunders and How to Avoid Them. Utah State University, Logan, UT, 2018.

Completed: Pathology of Laboratory Animals Course. Charles Louis Davis and Samuel Wesley Thompson DVM Foundation, Philadelphia, PA, 2016.

Completed: Annual Gross Pathology Review Course. Charles Louis Davis and Samuel Wesley Thompson DVM Foundation, Manhattan, KS, 2016.

AWARDS

2014 College of Agriculture and Applied Sciences Graduate Student Teacher of the Year. Utah State University, Logan, Utah. 18 September 2014.

2013 Utah State University Animal, Dairy, and Veterinary Science Department Graduate Student Symposium, 1st place PhD track oral presentation. Utah State University, Logan, UT. 5 August 2013.

MENTORSHIP

Masters Plan B Graduate Student Committee, Animal & Veterinary Sciences, University of Wyoming (2022): Pre-Vet Mentoring Center mentor, Department of Veterinary Sciences, University of Wyoming (2021-ongoing).

Native American Student Mentorship Program (NASMP, 2020): two USU Blanding students; half-week experience in veterinary pathology, virtual.

Native American Student Mentorship Program (NASMP, 2019): one USU Blanding student; weeklong work experience/mentorship at the UVDL.

Mentorship (2019): veterinary graduate (Peru) working toward North American veterinary certification examination; hands-on training in necropsy technique and mentorship on exam preparation.

Mentorship (2017 to 2020): two pathology residents; resident training and mentorship on career development, training opportunities, board exam preparation, support.

UNIVERSITY SERVICE, University of Wyoming

Undergraduate Student Committee, committee chair, 2022.

Saddle Up 2022 College Preparation Camp Planning Committee, committee member representing Veterinary Sciences, 2022.

WSVL Laboratory Technician III (Necropsy Section), search committee chair, 2022

WSVL Laboratory Technician III (Necropsy Section), search committee chair, 2021

WSVL Assistant Professor / Veterinary Anatomic Pathologist, search committee member, 2021