

Kerry S. Sondgeroth

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EDUCATION

Ph.D., Veterinary Science, Washington State University, Dec. 2013

Dissertation:

Advisors: Audrey Lau and Terry McElwain

Microbiology Residency, Washington Animal Disease Diagnostic Laboratory, Jan. 2012

D.V.M., Colorado State University, May 2006

B.A., Chemistry, University of New Hampshire, May 1997

PROFESSIONAL EMPLOYMENT

Assistant Professor, Veterinary Bacteriologist, 2014-present

Dept. of Veterinary Sciences, Wyoming State Veterinary Laboratory, University of Wyoming, Laramie, WY

Post-DVM Graduate Student, 2006-2013

Dept. of Veterinary Microbiology and Pathology, College of Veterinary Medicine, Washington State University, Pullman, WA

Veterinary Clinical Microbiology Residency, 2007-2012

Washington Animal Disease Diagnostic Laboratory, College of Veterinary Medicine, Washington State University, Pullman, WA

Research Assistant, 2000-2006

Dept. of Microbiology, Immunology and Pathology, College of Veterinary Medicine, Colorado State University, Fort Collins, CO

PEER REVIEWED PUBLICATIONS

Sondgeroth KS, McElwain TM, Ueti MW, Scoles GA, Reir KE, Lau AOT. 2014. Tick passage results in enhanced attenuation of *Babesia bovis*. *Infection and Immunity*, 82(10):4426-4434.

Pedroni MJ, **Sondgeroth KS**, Gallego GM, Echaide IE, Lau AOT. 2013. *Comparative transcriptome analysis of geographical distinct virulent and attenuated Babesia bovis reveals similar gene expression profiles*. *BMC Genomics*, 14(1):763.

Sondgeroth KS, Davis MA, Schlee SL, Allen AJ, Evermann JF, McElwain TF, Baszler TV. 2013. *Seroprevalence of Coxiella burnetii in Washington State domestic goat herds*. *Vector Borne Zoonotic Dis*, 13(11):779.

Sondgeroth KS, McElwain TF, Allen AJ, Chen AV, Lau AOT. 2013. *Loss of neurovirulence is associated with reduction of cerebral capillary sequestration during acute Babesia bovis infection*. *Parasites & Vectors*, 6(1):181.

Suarez CE, Laughery JM, Schneider DA, **Sondgeroth KS**, McElwain TF. 2012. *Acute and persistent infection by a transfected Mo7 strain of Babesia bovis*. *Mol Biochem Parasit* 185(1):52-7.

Ferreri LM, Brayton KA, **Sondgeroth KS**, Lau AOT, Suarez CE, McElwain TF. 2011. Expression and strain variation of the novel “small open reading frame” (*smorf*) multigene family in *Babesia bovis*. *Int J Parasit* 42(2):131-138.

Terwee JA, Carlson JK, Sprague WS, **Sondgeroth KS**, Shropshire S, Troyer JL, VandeWoude S. 2008. *Prevention of Immunodeficiency Virus-induced CD4+ T cell depletion by prior infection with a nonpathogenic virus*. *Virology* 377(1):63-70.

Pecon-Slattey, J., McCracken CL, Troyer JL, Vandewoude S, Roelke M, **Sondgeroth K**, Winterbach C, Winterbach H, O'Brien SJ. 2008. *Genomic organization, sequence divergence and recombination of feline immunodeficiency virus from lions in the wild*. *BMC Genomics*, 9:66

Sondgeroth K., Blitvich B., Terwee J., Blair C., Junge R., Sauther M., VandeWoude S. 2007. *Assessing Flavivirus, Lentivirus and Herpesvirus Exposure in Wild Lemur catta in Southwestern Madagascar*. *Journal of Wildlife Diseases*. 43(1):40-47.

Terwee J, Yactor J, **Sondgeroth K**, VandeWoude S. 2005. *Puma lentivirus is controlled in domestic cats after mucosal exposure in the absence of conventional indicators of immunity*. Journal of Virology, 79(5):2797-2806.

Sondgeroth K., Leutenegger CL, VandeWoude S. 2005. *Development and validation of puma (Felis concolor) cytokine and lentivirus real-time PCR detection systems*. Veterinary Immunology and Immunopathology, 104(3-4): 205-213.

ABSTRACTS AND PRESENTATIONS

2014 Wyoming Veterinary Medical Association Winter Meeting. *Understanding Salmonella Serotyping* (oral)

2014 Seattle Parasitology Conference. *Tick transmissibility of Babesia bovis* (oral)

2013 International Conference on Lyme Borreliosis and Other Tick-Borne Diseases. *Cerebral sequestration associated with neurovirulence is reduced after serial in vivo passage of Babesia bovis*. (poster)

2012 Washington State University CVM Student Research Symposium. *Is attenuation of Babesia bovis associated with loss of tick transmissibility?* (poster)

2012 American Association of Veterinary Laboratory Diagnosticians. *Seroprevalence of Coxiella burnetii in Washington State domestic goat herds*. (oral)

2012 Vector Biology Research Symposium, Rocky Mountain Laboratories. *Is attenuation of Babesia bovis associated with loss of tick transmissibility?* (poster)

2012 Seattle Parasitology Conference. *Capillary sequestration and virulence in Babesia bovis*. (oral)

2011 Washington State University CVM Student Research Symposium. *In vivo cytoadhesion and sequestration of Babesia bovis strains before and after multiple passages in calves*. (poster)

2011 Washington State University Academic Showcase. *Investigation of ICAM-1 in the cytoadherence between Babesia bovis infected erythrocytes and bovine endothelial cells*. (poster)

2008 Cold Spring Harbor Retroviruses Meeting. *Identification of Inter-subtype Breakpoints in a Highly Recombinogenic Region of HIV-1 gag*. (poster)

2007 Washington State University 5th Annual Center for Integrated Biotechnology Retreat poster. *Computational and experimental approaches to detect variation in recombination frequency across the HIV-1 genome*. (poster)

WEB PAGE PUBLICATIONS

2013 FAQ sheet on CAE and OPP for Washington Animal Disease Diagnostic Laboratory
http://www.vetmed.wsu.edu/depts_waddl/caefaq.aspx

2012 FAQ sheet on Q-fever for Washington Animal Disease Diagnostic Laboratory
http://www.vetmed.wsu.edu/depts_waddl/dx/QFever.aspx

TEACHING

Faculty participant, Graduate Seminar (PATB 5515), fall 2014

Faculty participant, Undergraduate Seminar (PATB 4150), fall 2014

Problems Course (PATB 4050): Megan Weisensee, 4 credits, spring 2015

UNIVERSITY COMMITTEE SERVICE

Library Council Committee (fall 2014-present)

Microbiology Steering Committee (fall 2014-present)

Search Committee, Virology/Bacteriology Technician (fall 2014; David Berry hired)

ACADEMIC AND COMMUNITY SERVICE

Ad-hoc reviewer, *BMC Research Notes* (2014)

Ad-hoc reviewer, *Parasites & Vectors* (2013)

Ad-hoc reviewer, *Journal of Vector Borne and Zoonotic Diseases* (2013)
WSVL Highway Clean-Up, Organizer (2014)

PROFESSIONAL AFFILIATIONS

American Association of Veterinary Laboratory Diagnosticians, member (2012-present)
American Veterinary Medical Association, member (2006-present)

GRANT ACTIVITY

Co-investigator, NSF-Biotechnology and Biochemical Engineering. 2014. Reagentless on-tissue digestion of proteins for MALDI-imaging MS. \$561,000. Decision pending.

GRANTS FUNDED

Principal Investigator. NIH-K01 OD-011154 Role of VESA1 Proteins in *Babesia bovis* virulence. 8/2011-6/2016. \$526,933

GRANTS NOT FUNDED

None

HONORS

- Graduate School Scholarship, Washington State University (2012)
- AAVLD sponsored Travel Award to present at the annual meeting (2012)
- Ron and Sheila Pera Scholarship, Washington State University (2010, 2013)
- Mr. and Mrs. Delbert Caldwell Scholarship, Washington State University (2009, 2010, 2012)
- Sponsorship by the Allen School to attend Policy Programs (2008-2009)
- Student Mentor of the Year Nomination Award (2009)
- Achievement Rewards for College Scientists (ARCS), Washington State University (2006-2009)
- Geraldine R. Dodge Frontiers for Veterinary Medicine Fellowship (2004)
- Merck-Merial Summer Research Grant (2003)

Current Research Interests:

Understanding *Babesia bovis* virulence in terms of both parasite and host factors. Gaining more insight on *Brucella ovis* infection in domestic and Bighorn sheep.

Current Post-docs:

In process of hiring

Current Graduate Students:

Molly Elderbrook, MS, begins Jan., 2015

Current Undergraduate Students:

Sarah Myers, 2014-present (Work-Study)
Noland Jeffres, 2014-present (Work-Study)
Megan Weisensee, Spring 2015 (PATB 4050)

Current Advising Students:

None