
CURRICULUM VITAE

Patricia A. Conrad

PERSONAL INFORMATION

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International Experience

Scotland, Kenya, Uganda, Tanzania, Rwanda, South Africa, Peru, Sri Lanka

Primary Research Interests

- One Health research approach to global human, animal (wild & domestic) and environmental health problems
- Antigenic and molecular characterization of protozoal parasites
- Mechanisms of pathogenesis in hemoprotozoal and coccidial parasites
- Biology, ecology and epidemiology of *Neospora*, *Toxoplasma*, *Babesia* and *Sarcocystis* spp. parasites
- Waterborne zoonotic protozoal and bacterial pathogens in watershed and marine ecosystems
- Development and evaluation of innovative educational approaches to promote inter-professional learning and engagement, particularly relating to global health

Specialty Focus

- Protozoology; One Health; Global Health

EDUCATION

Education and Training

1975 Associate of Science, Pre veterinary Medicine
Summa Cum Laude
Otero Junior College, La Junta, Colorado

1977 Bachelor of Science, Veterinary Science
Highest Distinction Honors
Colorado State University
Fort Collins, Colorado

Education and Training (Cont)

1980	Doctor of Veterinary Medicine High Distinction Honors Colorado State University Fort Collins, Colorado
1984	Doctor of Philosophy, Protozoology/Tropical Animal Health University of Edinburgh Edinburgh, Scotland, United Kingdom

EMPLOYMENT

Employment History

1981-1984	Protozoology Department, Centre for Tropical Veterinary Medicine, University of Edinburgh, Scotland, Post-graduate researcher, Supported by UK Marshall Aid Commemoration Commission Scholarship
1984-1988	International Laboratory for Research on Animal Diseases, Nairobi, Kenya, Post-doctoral researcher, Molecular Biology and East Coast Fever Epidemiology Sections
1988-1991	Department of Pathology, Microbiology and Immunology, School of Veterinary Medicine, University of California, Davis, CA, Assistant Professor Parasitology
1992-1996	Department of Pathology, Microbiology and Immunology, School of Veterinary Medicine, University of California, Davis, CA, Associate Professor Parasitology
1996-present	Department of Pathology, Microbiology and Immunology, School of Veterinary Medicine, University of California, Davis, CA, Professor of Parasitology
2014-present	School of Veterinary Medicine, University of California, Davis, CA, Associate Dean for Global Programs
2016-present	Department of Pathology, Microbiology and Immunology, School of Veterinary Medicine, University of California, Davis, CA, Distinguished Professor of Parasitology
2016-present	University of California Global Health Institute, Co-Director

SELECTED SIGNIFICANT RESEARCH DISCOVERIES

- Molecularly characterized theilerial parasites transmitted from wildlife to cattle in East Africa in order to improve diagnostics and vaccine development against a major livestock disease impacting food security.

- Discovered and molecularly characterized a new species of tick-transmitted hemoprotozoal parasites of humans in the western USA (*Babesia duncani*; published 2006 in the top parasitology journal) as well as new species in dogs (*Babesia conradae*), wild rodents (*Theileria youngi*) and African lions (*Babesia leo*).
- Coordinated collaborative research team that discovered the importance and economic impact of bovine neosporosis as the major cause of abortion in dairy cattle in California. Since its discovery in 1988 this disease has proven to be of significant economic importance to dairy industries worldwide. Isolated and established the first *in vitro* cultures of Neospora parasites that were used to develop new molecular and serologic diagnostic tests as well as a vaccine.
- Identified a new protozoan species (*Neospora hughesi*) in horses and improved the diagnosis of Equine Protozoal Myeloencephalitis (EPM), one of the most important causes of neurologic disease in horses in the USA.
- Isolated and characterized *Toxoplasma gondii* and *Sarcocystis neurona* as major causes of brain disease in threatened California sea otters. Demonstrated that sea otters serve as sentinels for biological pathogen pollution that poses a risk to humans, wildlife and domestic animals. This research led to international public attention, two of the most cited publications in the highest ranking parasitology journal, and a law enacted in 2007 to protect marine mammals and humans from the deposition of biological and toxic pollution into Californian waterways and the ocean.

HONORS & AWARDS

1980-1983	Marshall Aid Commemoration Commission Scholarship
1986	Cold Spring Harbor Laboratory Scholarship
1992	Charles Davis Foundation Journal Scholarship Award
1993	National Institutes of Health FIRST Award
1994	Presidential Symposium Speaker for American Association of Veterinary Parasitologists and American Veterinary Medical Association
1998	Pfizer Award for Research Excellence
1999	Carl J. Norden Distinguished Teaching Award
2001	Graduate Student, Dr. Melissa Miller (Checkowitz) was awarded Graduate Student Research Award for the Wildlife Disease Association
2002	Manuscript was selected by American College of Zoological Medicine as Best Manuscript of 2002
2003	Oscar W. Schalm Lectureship
2004	Aldo Leopold Leadership Fellowship
2006	Norman Levine Lecturship, University of Illinois
2008-2010	International Journal for Parasitology Top Cited article 2008-2010
2011	Elected to the Institute of Medicine of the National Academies (July 1, 2015 the IOM was renamed the National Academy of Medicine)

2012	R G Thomson Lecturer, Atlantic Veterinary College, Prince Edward Island
2012	American Society of Microbiology Division Z Lecturer
2012	Elected to Fellowship in the American Academy of Microbiology
2017	American Veterinary Medical Association Lifetime Excellence in Research Award
2018	Elected Fellow of the American Association of the Advancement of Science
2018	UC Davis Chancellor's Award for International Engagement
2019	Lifetime Achievement Award for Babesiosis Research

PUBLICATIONS

Journals (>230 published and in press papers in peer-reviewed journals)

1983	Jones TW, Conrad PA. The use of Eriochrome Black A (diamond black) as a counterstain in fluorescent antibody staining techniques for the detection of antibodies to haemoprotozoa. <i>Ann Trop Med Parasit</i> , 77(5): 535-6.
1985	Conrad PA, Kelly BG, Brown CG. Intraerythrocytic schizogony of <i>Theileria annulata</i> . <i>Parasitol</i> , 91 (Pt 1): 67-82.
1986	Conrad PA, Denham D, Brown CG. Intraerythrocytic multiplication of <i>Theileria parva in vitro</i> : an ultrastructural study. <i>Int J Parasitol</i> , 16(3): 223-9.
1986	Conrad PA. Uptake of tritiated nucleic acid precursors by <i>Babesia bovis in vitro</i> . <i>Int J Parasitol</i> , 16(3): 263-8.
1986	Baldwin CL, Malu MN, Kinuthia SW, Conrad PA, Grootenhuis JG. Comparative analysis of infection and transformation of lymphocytes from African buffalo and Boran cattle with <i>Theileria parva parva</i> and <i>T. parva lawrencei</i> . <i>Infect Immun</i> , 53(1): 186-91.
1987	Grootenhuis JG, Young AS, Stagg DA, Leitch BL, Dolan TT, Conrad PA. Infection of African buffalo (<i>Syncerus caffer</i>) and cattle with <i>Theileria parva lawrencei</i> after serial passage in cattle. <i>Res Vet Sci</i> , 42(3): 326-30.
1987	Conrad PA, Stagg DA, Grootenhuis JG, Irvin AD, Newson J, Njamunggeh RE, Rossiter PB, Young AS. Isolation of <i>Theileria</i> parasites from African buffalo (<i>Syncerus caffer</i>) and characterization with anti-schizont monoclonal antibodies. <i>Parasitol</i> , 94 (Pt 3): 413-23.
1987	Conrad PA, Iams K, Brown WC, Sohanpal B, ole-MoiYoi OK. DNA probes detect genomic diversity in <i>Theileria parva</i> stocks. <i>Mol Biochem Parasitol</i> , 25(3): 213-26.
1987	Stagg DA, Conrad PA, Rossiter PB. Isolation of <i>Theileria parva lawrencei</i> -infected lymphoid cell lines from free-ranging African buffaloes (<i>Syncerus caffer</i>). <i>Res Vet Sci</i> , 43(1): 124-6.

- 1987 Fawcett DW, Conrad PA, Grootenhuis JG, Morzaria SP. Ultrastructure of the intra-erythrocytic stage of *Theileria* species from cattle and waterbuck. *Tissue and Cell*, 19(5): 643-55.
- 1988 Koch HT, Ocama JG, Munatswa FC, Byrom B, Norval RA, Spooner PR, Conrad PA, Irvin AD. Isolation and characterization of bovine *Theileria* parasites in Zimbabwe. *Vet Parasitol*, 28(1-2): 19-32.
- 1988 Baldwin CL, Black SJ, Brown WC, Conrad PA, Goddeeris BM, Kinuthia SW, Lalor PA, MacHugh ND, Morrison WI, Morzaria SP, Naessens J, Newson J. Bovine T cells, B cells, and null cells are transformed by the protozoan parasite *Theileria parva*. *Infect Immun*, 56(2): 462-7.
- 1988 Sugimoto C, Conrad PA, Ito S, Brown WC, Grab DJ. Isolation of *Theileria parva* schizonts from infected lymphoblastoid cells. *Acta Tropica*, 45(3): 203-16.
- 1989 Conrad PA, ole-MoiYoi OK, Baldwin CL, Dolan TT, O'Callaghan CJ, Njamunggeh RE, Grootenhuis JG, Stagg DA, Leitch BL, Young AS. Characterization of buffalo-derived theilerial parasites with monoclonal antibodies and DNA probes. *Parasitol*, 98: 179-88.
- 1989 Brown WC, Shaw MK, Conrad PA, Dolan TT. *Theileria parva*: reappearance of schizonts in infected lymphoblastoid cells treated with parvaquone is dependent on interleukin 2-like growth factors. *Exp Parasitol*, 68(3): 308-25.
- 1989 Sugimoto C, Mutharia LM, Conrad PA, Dolan TT, Brown WC, Goddeeris BM, Pearson TW. Protein changes in bovine lymphoblastoid cells induced by infection with the intracellular parasite *Theileria parva*. *Mol Biochem Parasitol*, 37(2): 159-69.
- 1989 Conrad PA, Baldwin CL, Brown WC, Sohanpal B, Dolan TT, Goddeeris BM, Demartini JC, ole-MoiYoi OK. Infection of bovine T cell clones with genotypically distinct *Theileria parva* parasites and analysis of their cell surface phenotype. *Parasitol*, 99 Pt 2: 205-13.
- 1989 Brown WC, Sugimoto C, Conrad PA, Grab DJ. Differential response of bovine T-cell lines to schizont-derived membrane and soluble antigens of *Theileria parva* schizont-infected cells. *Parasite Immunol*, 11(6): 567-83.
- 1989 Rossiter PB, Gumm ID, Stagg DA, Conrad PA, Mukolwe S, Davies FG, White H. Isolation of bovine herpesvirus-3 from African buffaloes (*Syncerus caffer*). *Res Vet Sci*, 46(3): 337-43.
- 1989 Sugimoto C, Conrad PA, Mutharia L, Dolan TT, Brown WC, Goddeeris BM, Pearson TW. Phenotypic characterization of *Theileria parva* schizonts by two-dimensional gel electrophoresis. *Parasitol Res*, 76(1): 1-7.
- 1990 Barr BC, Anderson ML, Blanchard PC, Daft BM, Kinde H, Conrad PA. Bovine fetal encephalitis and myocarditis associated with protozoal infections. *Vet Pathol*, 27(5): 354-61.
- 1991 Barr BC, Conrad PA, Dubey JP, Anderson ML. *Neospora*-like encephalomyelitis in a calf: pathology, ultrastructure, and immunoreactivity. *J Vet Diagn Invest*, 3(1): 39-46.

- 1991 Anderson ML, Blanchard PC, Barr BC, Dubey JP, Hoffman RL, Conrad PA. *Neospora*-like protozoan infection as a major cause of abortion in California dairy cattle. *J Am Vet Med Assoc*, 198(2): 241-4.
- 1991 Conrad PA, Thomford J, Yamane I, Whiting J, Bosma L, Uno T, Holshuh HJ, Shelly S. Hemolytic anemia caused by *Babesia gibsoni* infection in dogs. *J Am Vet Med Assoc*, 198(2): 241-244.
- 1991 Chen PP, Conrad PA, ole-MoiYoi OK, Brown WC, Dolan TT. DNA probes detect *Theileria parva* in the salivary glands of *Rhipicephalus appendiculatus* ticks. *Parasitol Res*, 77(7): 590-4.
- 1991 Barr BC, Anderson ML, Dubey JP, Conrad PA. *Neospora*-like protozoal infections associated with bovine abortions. *Vet Pathol*, 28(2): 110-6.
- 1992 Sugimoto C, Mutharia LM, Brown WC, Pearson TW, Dolan TT, Conrad PA. Analysis of *Theileria parva* immunodominant schizont surface antigen by two-dimensional polyacrylamide gel electrophoresis and immunoblotting. *Parasitol Res*, 78(1): 82-5.
- 1992 Conrad PA, Thomford JW, Marsh A, Telford SR, Anderson JF, Spielman A, Sabin EA, Yamane I, Persing DH. Ribosomal DNA probe for differentiation of *Babesia microti* and *B. gibsoni* isolates. *J Clin Microbiol*, 30(5): 1210-5.
- 1992 Barr BC, Anderson ML, Woods LW, Dubey JP, Conrad PA. *Neospora*-like protozoal infections associated with abortion in goats. *J Vet Diagn Invest*, 4(3): 365-7.
- 1992 ole-MoiYoi OK, Sugimoto C, Conrad PA, Macklin MD. Cloning and characterization of the casein kinase II alpha subunit gene from the lymphocyte-transforming intracellular protozoan parasite *Theileria parva*. *Biochem*, 31(27): 6193-202.
- 1992 Persing DH, Mathiesen D, Marshall WF, Telford SR, Spielman A, Thomford JW, Conrad PA. Detection of *Babesia microti* by polymerase chain reaction. *J Clin Microbiol*, 30(8): 2097-103.
- 1992 Perez E, Conrad PA, HID D, Ortuno A, Chacon J, BonDurant R, Noordhuizen J. Prevalence and risk factors for *Tritrichomonas foetus* infection in cattle in northeastern Costa Rica. *Prev Vet Med*, 14: 155-165.
- 1993 Alexander KA, Conrad PA, Gardner IA, Parish C, Appel M, Levy MG, Lerche N, Kat P. Serological survey for selected microbial pathogens in African Wild Dogs (*Lycaon pictus*) and sympatric domestic dogs (*Canis familiaris*) in Maasi Mara, Kenya. *J Zoo Wildl Med*, 24: 140-144.
- 1993 Thomford JW, Conrad PA, Boyce WM, Holman PJ, Jessup DA. Isolation and *in vitro* cultivation of *Babesia* parasites from free-ranging desert bighorn sheep (*Ovis canadensis nelsoni*) and mule deer (*Odocoileus hemionus*) in California. *J Parasitol*, 79(1): 77-84.
- 1993 Conrad PA, Barr BC, Sverlow KW, Anderson M, Daft B, Kinde H, Dubey JP, Munson L, Ardans A. *In vitro* isolation and characterization of a *Neospora* sp. from aborted bovine fetuses. *Parasitol*, 106 (Pt 3): 239-49.

- 1993 Barr BC, Conrad PA, Breitmeyer R, Sverlow K, Anderson ML, Reynolds J, Chauvet AE, Dubey JP, Ardans AA. Congenital *Neospora* infection in calves born from cows that had previously aborted *Neospora*-infected fetuses: four cases (1990-1992). *J Am Vet Med Assoc*, 202(1): 113-7.
- 1993 Goff WL, Jessup DA, Waldrup KA, Thomford JW, Conrad PA, Boyce WM, Gorham JR, Wagner GG. The isolation and partial characterization of a *Babesia* sp. from desert bighorn sheep (*Ovis canadensis nelsoni*). *J Eukaryot Microbiol*, 40(3): 237-43.
- 1993 Quick RE, Herwald BL, Thomford JW, Garnett ME, Eberhard ML, Wilson M, Spach DH, Dickerson JW, Telford SR III, Steingart KR, Pollock R, Persing DH, Kobayashi KM, Juranek DD, Conrad PA. Babesiosis in Washington State: a new species of *Babesia*? *Ann Int Med*, 119: 284-90.
- 1993 Conrad PA, Sverlow K, Anderson M, Rowe J, BonDurant R, Tuter G, Breitmeyer R, Palmer C, Thurmond M, Ardans A, Dubey JP, Duhamel G, Barr B. Detection of serum antibody responses in cattle with natural or experimental *Neospora* infections. *J Vet Diagn Invest*, 5(4): 572-8.
- 1993 Yamane I, Thomford JW, Gardner IA, Dubey JP, Levy M, Conrad PA. Evaluation of the indirect fluorescent antibody test for diagnosis of *Babesia gibsoni* infections in dogs. *Am J Vet Res*, 54(10): 1579-84.
- 1993 Yamane I, Gardner IA, Conrad PA. *Babesia gibsoni* infections in dogs. *J Protozool*, 3: 111-25.
- 1993 Yamane I, Gardner IA, Ryan CP, Levy M, Urrico J, Conrad PA. Srosurvey of *Babesia canis*, *Babesia gibsoni* and *Ehrlichia canis* in pound dogs in California. *Prev Vet Med*, 18: 293-304.
- 1994 Ho MS, Conrad PA, Conrad PJ, LeFebvre RB, Perez E, BonDurant RH. Detection of bovine trichomoniasis with a specific DNA probe and PCR amplification system. *J Clin Microbiol*, 32(1): 98-104.
- 1994 Krause PJ, Telford SR, Ryan R, Conrad PA, Wilson M, Thomford JW, Spielman A. Diagnosis of babesiosis: evaluation of a serologic test for the detection of *Babesia microti* antibody. *J Infect Dis*, 169(4): 923-6.
- 1994 Barr BC, Rowe JD, Sverlow KW, BonDurant RH, Ardans AA, Oliver MN, Conrad PA. Experimental reproduction of bovine fetal *Neospora* infection and death with a bovine *Neospora* isolate. *J Vet Diagn Invest*, 6(2): 207-15.
- 1994 Thomford JW, Conrad PA, Telford SR, Mathiesen D, Bowman BH, Spielman A, Eberhard ML, Herwaldt BL, Quick RE, Persing DH. Cultivation and phylogenetic characterization of a newly recognized human pathogenic protozoan. *J Infect Dis*, 169(5): 1050-6.
- 1994 Barr BC, Conrad PA, Sverlow KW, Tarantal AF, Hendrickx AG. Experimental fetal and transplacental *Neospora* infection in the nonhuman primate. *Lab Invest*, 71(2): 236-42.

- 1994 Yamane I, Gardner IA, Telford SR III, Elward T, Hair JA, Conrad PA. Vector competence of *Rhipicephalus sanguineus* and *Dermacentor variabilis* for American isolates *Babesia gibsoni*. *Exp Appl Acarol*, 17: 913-9.
- 1994 Wongtavatchai J, Conrad PA, Hedrick RP. *In vitro* cultivation of the microsporidian: *Enterocytozoon salmonis* using a newly developed medium for salmonid lymphocytes. *J Tissue Cult Methods*, 16: 125-31.
- 1995 Persing DH, Herwaldt BL, Glaser C, Lane RS, Thomford JW, Mathiesen D, Krause PJ, Phillip DF, Conrad PA. Infection with a babesia-like organism in northern California. *N Engl J Med*, 332(5): 298-303.
- 1995 Marsh AE, Barr BC, Sverlow K, Ho M, Dubey JP, Conrad PA. Sequence analysis and comparison of ribosomal DNA from bovine *Neospora* to similar coccidial parasites. *J Parasitol*, 81(4): 530-5.
- 1995 Wongtavatchai J, Conrad PA, Hedrick RP. Effect of the microsporidian *Enterocytozoon salmonis* on the immune response of Chinook salmon. *Vet Immunol Immunopathol*, 48(3-4): 367-74.
- 1995 Wongtavatchai J, Conrad PA, Hedrick RP. *In vitro* characteristics of the microsporidian: *Enterocytozoon salmonis*. *J Eukaryot Microbiol*, 42(4): 401-5.
- 1995 Anderson M, Palmer C, Thurmond M, Picanso J, Blanchard P, Brietmeyer R, Laytoti B, McAllister M, Daft B, Kinde H, Read D, Dubey JP, Conrad PA, Barr B. Prospective survey of *Neospora* abortions in selected California dairies. *J Am Vet Med Assoc*, 207: 1206-10.
- 1995 Persing DH, Conrad PA. Babesiosis: new insights from phylogenetic analysis. *Infect Agent Dis*, 4(4): 182-95.
- 1995 Kjemtrup AM, Thomford JW, Gardner IA, Conrad PA, Jessup DA, Boyce WM. Seroprevalence of two *Babesia* spp. isolates in selected bighorn sheep (*Ovis canadensis*) and mule deer (*Odocoileus hemionus*) populations in California. *J Wildl Dis*, 31(4): 467-71.
- 1995 Barr BC, Anderson ML, Sverlow KW, Conrad PA. Diagnosis of bovine fetal *Neospora* infection with an indirect fluorescent antibody test. *Vet Rec*, 137(24): 611-3.
- 1995 Marsh AE, Barr BC, Sverlow K, Ho MSY, Robinson T, Conrad PA. Sequence analysis and comparison of ribosomal DNA from bovine *Neospora* spp. to similar coccidial parasites. *J Parasitol*, 81: 530-5.
- 1996 Wozniak EJ, Lowenstine LJ, Hemmer R, Robinson T, Conrad PA. Comparative pathogenesis of human WA1 and *Babesia microti* isolates in a Syrian hamster model. *Lab Anim Sci*, 46(5): 507-15.
- 1996 Marsh AE, Barr BC, Madigan J, Lakritz J, Conrad PA. Sequence analysis and polymerase chain reaction amplification of small subunit ribosomal DNA from *Sarcocystis neurona*. *American Journal of Veterinary Research*, 57(7): 975-81.

- 1996 Ho MS, Barr BC, Marsh AE, Anderson ML, Rowe JD, Tarantal AF, Hendrickx AG, Sverlow K, Dubey JP, Conrad PA. Identification of bovine *Neospora* parasites by PCR amplification and specific small-subunit rRNA sequence probe hybridization. *J Clin Microbiol*, 34(5): 1203-8.
- 1996 Marsh AE, Barr BC, Madigan J, Lakritz J, Nordhausen R, Conrad PA. Neosporosis as a cause of equine protozoal myeloencephalitis. *J Am Vet Med Assoc*, 209(11): 1907-13.
- 1996 McAllister MM, Huffman EM, Hietala SK, Conrad PA, Anderson ML, Salman MD. Evidence suggesting a point source exposure in an outbreak of bovine abortion due to neosporosis. *J Vet Diagn Invest*, 8(3): 355-7.
- 1997 Ho MS, Barr BC, Rowe JD, Anderson ML, Sverlow KW, Packham A, Marsh AE, Conrad PA. Detection of *Neospora* sp. from infected bovine tissues by PCR and probe hybridization. *J Parasitol*, 83(3): 508-14.
- 1997 Marsh AE, Barr BC, Lakritz J, Nordhausen R, Madigan JE, Conrad PA. Experimental infection of nude mice as a model for *Sarcocystis neurona*-associated encephalitis. *Parasitol Res*, 83(7): 706-11.
- 1997 Wozniak EJ, Barr BC, Thomford JW, Yamane I, McDonough SP, Moore PF, Naydan D, Robinson TW, Conrad PA. Clinical, anatomic, and immunopathologic characterization of *Babesia gibsoni* infection in the domestic dog (*Canis familiaris*). *J Parasitol*, 83(4): 692-9.
- 1997 Ho MS, Barr BC, Tarantal AF, Lai LT, Hendrickx AG, Marsh AE, Sverlow KW, Packham AE, Conrad PA. Detection of *Neospora* from tissues of experimentally infected rhesus macaques by PCR and specific DNA probe hybridization. *J Clin Microbiol*, 35(7): 1740-5.
- 1997 Herwaldt BL, Kjemtrup AM, Conrad PA, Barnes RC, Wilson M, McCarthy MG, Sayers MH, Eberhard ML. Transfusion-transmitted babesiosis in Washington State: first reported case caused by a WA1-type parasite. *J Infect Dis*, 175(5): 1259-62.
- 1997 Anderson ML, Reynolds JP, Rowe JD, Sverlow KW, Packham AE, Barr BC, Conrad PA. Evidence of vertical transmission of *Neospora* sp. infection in dairy cattle. *J Am Vet Med Assoc*, 210(8): 1169-72.
- 1997 Fritz CL, Kjemtrup AM, Conrad PA, Flores GR, Campbell GL, Schriefer ME, Gallo D, Vugia DJ. Seroepidemiology of emerging tickborne infectious diseases in a Northern California community. *J Infect Dis*, 175(6): 1432-9.
- 1997 Yamane I, Kokuho T, Shimura K, Eto M, Shibahara T, Haritani M, Ouchi Y, Sverlow K, Conrad PA. *In vitro* isolation and characterisation of a bovine *Neospora* species in Japan. *Res Vet Sci*, 63(1): 77-80.
- 1997 Louie K, Sverlow KW, Barr BC, Anderson ML, Conrad PA. Cloning and characterization of two recombinant *Neospora* protein fragments and their use in serodiagnosis of bovine neosporosis. *Clin Diagn Lab Immunol*, 4(6): 692-9.

- 1997 Marsh AE, Barr BC, Tell L, Koski M, Greiner E, Dame J, Conrad PA. *In vitro* cultivation and experimental inoculation of *Sarcocystis falcatula* and *Sarcocystis neurona* merozoites into budgerigars (*Melopsittacus undulatus*). J Parasitol, 83(6): 1189-92.
- 1998 Marsh AE, Barr BC, Packham AE, Conrad PA. Description of a new *Neospora* species (Protozoa: Apicomplexa: Sarcocystidae). J Parasitol, 84(5): 983-91.
- 1998 Packham AE, Sverlow KW, Conrad PA, Loomis EF, Rowe JD, Anderson ML, Marsh AE, Cray C, Barr BC. A modified agglutination test for *Neospora caninum*: development, optimization, and comparison to the indirect fluorescent-antibody test and enzyme-linked immunosorbent assay. Clin Diagn Lab Immunol, 5(4): 467-73.
- 1998 Yamane I, Shibahara T, Kokuho T, Shimura K, Hamaoka T, Haritani M, Conrad PA, Park CH, Sawada M, Umemura T. An improved isolation technique for bovine *Neospora* species. J Vet Diagn Invest, 10(4): 364-8.
- 1998 Perez E, Gonzalez O, Dolz G, Morales JA, Barr BC, Conrad PA. First report of bovine neosporosis in dairy cattle in Costa Rica. Vet Rec, 142(19): 520-1.
- 1999 Hemmer RM, Wozniak EJ, Lowenstine LJ, Plopper CG, Wong V, Conrad PA. Endothelial cell changes are associated with pulmonary edema and respiratory distress in mice infected with the WA1 human *Babesia* parasite. J Parasitol, 85(3): 479-89.
- 1999 Marsh AE, Barr BC, Tell L, Bowman DD, Conrad PA, Ketcherside C, Green T. Comparison of the internal transcribed spacer, ITS-1, from *Sarcocystis falcatula* isolates and *Sarcocystis neurona*. J Parasitol, 85(4): 750-7.
- 1999 Louie K, Conrad PA. Characterization of a cDNA encoding a subtilisin-like serine protease (NC-p65) of *Neospora caninum*. Mol Biochem Parasitol, 103(2): 211-23.
- 1999 Andrianarivo AG, Choromanski L, McDonough SP, Packham AE, Conrad PA. Immunogenicity of a killed whole *Neospora caninum* tachyzoite preparation formulated with different adjuvants. Int J Parasitol, 29(10): 1613-25.
- 1999 Marsh AE, Howe DK, Wang G, Barr BC, Cannon N, Conrad PA. Differentiation of *Neospora hughesi* from *Neospora caninum* based on their immunodominant surface antigen, SAG1 and SRS2. Int J Parasitol, 29(10): 1575-82.
- 2000 Stockham SL, Kjemtrup AM, Conrad PA, Schmidt DA, Scott MA, Robinson TW, Tyler JW, Johnson GC, Carson CA, Cuddihee P. Theileriosis in a Missouri beef herd caused by *Theileria buffeli*: case report, herd investigation, ultrastructure, phylogenetic analysis, and experimental transmission. Vet Pathol, 37(1): 11-21.
- 2000 Kjemtrup AM, Conrad PA. Human Babesiosis: an emerging tick-borne disease. Int J Parasitol, 30(12-13): 1323-37.

- 2000 Hemmer RM, Ferrick DA, Conrad PA. Up-regulation of tumor necrosis factor-alpha and interferon-gamma expression in the spleen and lungs of mice infected with the human *Babesia* isolate WA1. *Parasitol Res*, 86(2): 121-8.
- 2000 Kjemtrup AM, Thomford J, Robinson T, Conrad PA. Phylogenetic relationships of human and wildlife piroplasm isolates in the western United States inferred from the 18S nuclear small subunit RNA gene. *Parasitol*, 120 (Pt 5): 487-93.
- 2000 Hemmer RM, Ferrick DA, Conrad PA. Role of T cells and cytokines in fatal and resolving experimental babesiosis: protection in TNFRp55-/- mice infected with the human *Babesia* WA1 parasite. *J Parasitol*, 86(4): 736-42.
- 2000 Anderson ML, Andrianarivo AG, Conrad PA. Neosporosis in cattle. *Anim Reprod Sci*, 60-61: 417-31.
- 2000 Andrianarivo AG, Rowe JD, Barr BC, Anderson ML, Packham AE, Sverlow KW, Choromanski L, Loui C, Grace A, Conrad PA. A POLYGEN-adjuvanted killed *Neospora caninum* tachyzoite preparation failed to prevent foetal infection in pregnant cattle following i.v./i.m. experimental tachyzoite challenge. *Int J Parasitol*, 30(9): 985-90.
- 2000 Kjemtrup AM, Kocan AA, Whitworth L, Meinkoth J, Birkenheuer AJ, Cummings J, Boudreaux MK, Stockham SL, Irizarry-Rovira A, Conrad PA. There are at least three genetically distinct small piroplasms from dogs. *Int J Parasitol*, 30(14): 1501-5.
- 2001 Kjemtrup AM, Robinson T, Conrad PA. Description and epidemiology of *Theileria youngi* n. sp. from a northern Californian dusky-footed woodrat (*Neotoma fuscipes*) population. *J Parasitol*, 87(2): 373-8.
- 2001 Miller MA, Crosbie PR, Sverlow K, Hanni K, Barr BC, Kock N, Murray MJ, Lowenstine LJ, Conrad PA. Isolation and characterization of Sarcocystis from brain tissue of a free-living southern sea otter (*Enhydra lutris nereis*) with fatal meningoencephalitis. *Parasitol Res*, 87(3): 252-7.
- 2001 Penzhorn BL, Kjemtrup AM, López-Rebollar LM, Conrad PA. *Babesia leo* n. sp. from lions in the Kruger National Park, South Africa and its relation to other small piroplasms. *J Parasitol*, 87(3): 681-5.
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- 2013 Marcotty T, Thys E, Conrad PA, Godfroid J, Craig P, Zinsstag J, Meheus F, Bourary AR, Bade MA, Sahibi H, Filali H, Hendrickx S, Pissang C, Van Herp M, van der Roost D, Thys S, Hendrickx D, Claes M, Demeulenaere T, van Mierlo J, Dehoux J, Boelaert M. Intersectoral collaboration between the medical and veterinary professions in low-resource societies: The role of research and training institutions. *Comp Immunol Microbiol Infect Dis*, 36(3): 233-9.
- 2014 Hogan JN, Miller WA, Cranfield MR, Ramer J, Hassell J, Noheri JB, Conrad PA, Gilardi KV. *Giardia* in mountain gorillas (*Gorilla beringei beringei*), forest buffalo (*Syncerus caffer*), and domestic cattle in Volcanoes National Park, Rwanda. *J Wildl Dis*, 50(1): 21-30.
- 2014 Adell AD, Miller WA, Harvey DJ, Van Wormer E, Wuertz S, Conrad PA. Individual subject meta-analysis of parameters for *Giardia duodenalis* shedding in animal experimental models. *Biomed Res Int*, 2014: 476142.
- 2014 Pusterla N, Tamez-Trevino E, White, A, Vangeem J, Packham A, Conrad PA, Kass P. Comparison of prevalence factors in horses with and without seropositivity to *Neospora hughesi* and/or *Sarcocystis neurona*. *Vet J*, 200(2): 332-4.
- 2014 VanWormer E, Miller MA, Conrad PA, Grigg ME, Rejmanek D, Carpenter TE, Mazet JA. Using molecular epidemiology to track *Toxoplasma gondii* from terrestrial carnivores to marine hosts: implications for public health and conservation. *PLoS Negl Trop Dis*, 8(5): e2852.
- 2014 Courtenay M, Conrad P, Wilkes M, La Ragione R, Fitzpatrick N. Interprofessional initiatives between the human health professions and veterinary medical students: a scoping review. *Interprofession Care*, 28(4): 323-30.
- 2014 Shender LA, De Los Santos M, Montgomery JM, Conrad PA, Gherzi BM, Razuri H, Lescano AG, Mazet JA. Native rodent species are unlikely sources of infection for *Leishmania (Viannia) braziliensis* along the transoceanic highway in Madre de Dios, Peru. *PLoS One*, 9(7): e103358.
- 2014 Courtenay M, Wilkes M, Conrad PA, Ragione, RL, Reeves, S. One Health: The importance of education and the impact of interprofessional interventions. *Vet J*, 201(3): 241-2.
- 2014 Daniels ME, Hogan, J, Smith WA, Oates SC, Miller MA, Hardin, D, Shapiro K, Huertos ML, Conrad PA, Dominik C, Watson FG. Estimating environmental conditions affecting protozoal pathogen removal in surface water wetland systems using a multi-scale, model-based approach. *Sci Total Environ*, 493: 1036-46.

- 2014 Greig DJ, Gulland FM, Smith WA, Conrad PA, Field CL, Fleetwood M, Harvey JT, Ip HS, Jang S, Packham A, Wheeler E, Hall AJ. Surveillance for zoonotic and selected pathogens in harbor seals (*Phoca vitulina*) from central California. *Dis Aquat Organ*, 111(2): 93-106.
- 2014 Shapiro K, Krusor C, Mazzillo FF, Conrad PA, Largier JL, Mazet JA, Silver MW. Aquatic polymers can drive pathogen transmission in coastal ecosystems. *Proc Biol Sci*, 281: 20141287.
- 2014 Adell AD, Smith WA, Shapiro K, Melli A, Conrad PA. Molecular epidemiology of *Cryptosporidium* spp. and *Giardia* spp. in mussels (*Mytilus californianus*) and California sea lions (*Zalophus californianus*) from Central California. *Appl Environ Microbiol*, 80(24): 7732-40.
- 2014 Pusterla N, Mackie S, Packham A, Conrad PA. Serological investigation of transplacental infection with *Neospora hughesi* and *Sarcocystis neurona* in broodmares. *Vet J*, 202(3): 649-50.
- 2015 Winer JN, Nakagawa K, Conrad PA, Brown L, Wilkes M. Evaluation of medical and veterinary students' attitudes toward a one health inter-professional curricular exercise. *J Interprof Care*, 29(1): 49-54.
- 2015 Carlson-Bremer D, Colegrove KM, Gulland FM, Conrad PA, Mazet JA, Johnson CK. Epidemiology and pathology of *Toxoplasma gondii* in free-ranging California sea lions (*Zalophus californianus*). *J Wildl Dis*, 51(2): 362-73.
- 2015 Pusterla N, Packham A, Mackie S, Kass PH, Hunyadi L, Conrad PA. Daily feeding of diclazuril top dress pellets in foals reduces seroconversion to *Sarcocystis neurona*. *Vet J*, 206(2): 236-8.
- 2015 Shapiro K, VanWormer E, Aguilar B, Conrad PA. Surveillance for *Toxoplasma gondii* in California mussels (*Mytilus californianus*) reveals transmission of atypical genotypes from land to sea. *Environ Microbiol*, 17(11): 4177-4188.
- 2015 Krusor C, Smith WA, Tinker MT, Silver M, Conrad PA, Shapiro K. Concentration and retention of *Toxoplasma gondii* oocysts by marine snails demonstrate a novel mechanism for transmission of terrestrial zoonotic pathogens in coastal ecosystems. *Environ Microbiol*, 17(11): 4527-4537.
- 2016 Shapiro K, Miller MA, Packham AE, Aguilar B, Conrad PA, VanWormer E, Murray MJ. Dual congenital transmission of *Toxoplasma gondii* and *Sarcocystis neurona* in a late-term aborted pup from a chronically infected southern sea otter (*Enhydra lutris nereis*). *Parasitol*, 143(3):276-288.
- 2016 Aleman M, Shapiro K, Siso S, Williams D, Rejmanek D, Aguilar B, Conrad PA. *Sarcocystis fayeri* in skeletal muscle of equids with neuromuscular disease. *Neuromuscular Disord*, 26(1): 85-93.
- 2016 Michaels L, Rejmanek D, Aguila B, Conrad PA, Shapiro, K. California mussels (*Mytilus californianus*) as sentinels for marine contamination with *Sarcocystis neurona*. *Parasitol*, 143(6): 762-769.

- 2016 VanWormer E, Carpenter TE, Singh P, Shapiro K, Wallender WW, Conrad PA, Largier JL, Maneta MP, Mazet JAK. Coastal development and precipitation drive pathogen flow from land to sea: Evidence for a *Toxoplasma gondii* and felid host system. *Nature Sci Rep*, 6: 29252.
- 2016 Adell AD, McBride G, Wuertz S, Conrad PA, Smith, WA. Comparison of human and southern sea otter (*Enhydra lutris nereis*) health risks for infection with protozoa in nearshore waters. *Water Res*, 104:220-230.
- 2016 Schott KC, Krusor C, Tinker TM, Moore J, Conrad PA, Shapiro K. Concentration and retention of *Toxoplasma gondii* surrogates from seawater by red abalone (*Haliotis refuscens*). *Parasitology*, 143(13):1703-1712.
- 2016 Girard YA, Johnson CK, Fritz HM, Shapiro K, Packham AE, Melli AC, Carlson-Bremer D, Gulland FM, Rejmanek D, Conrad PA. Detection and characterization of diverse coccidian protozoa shed by California sea lions. *Int J Parasitol: Parasites and Wildlife*, 5(1): 5-16.
- 2016 Renier AC, Morrow, JK, Graves AJ, Finno C, Howe DK, Owens SD, Tamez-Trevino E, Packham AE, Conrad PA, Pusterla N. Diagnosis of equine myeloencephalitis using indirect fluorescent antibody testing and enzyme-linked immunosorbent assay titer ratios for *Sarcocystis neurona* and *Neospora hughesi*. *J Eq Vet Sci*, 36: 49-51.
- 2016 Shender L, Niemela M, Conrad PA, Goldstein T, Mazet J. Habitat management to reduce human exposure to *Trypanosoma cruzi* and western conenose bugs (*Triatoma protracta*). *EcoHealth*, 13(3):525-534.
- 2016 Berrian AM, van Rooyen J, Martinez-Lopez B, Knobel D, Simpson GJG, Wilkes MS, Conrad PA. One Health profile of a community at the wildlife-domestic animal interface, Mpumalanga, South Africa. *Prevent Vet Med*, 130:119-128.
- 2017 James KE, Smith WA, Conrad PA, Packham AE, Guerrero L, Ng M, Pusterla N. Seroprevalence of *Sarcocystis neurona* and *Neospora hughesi* antibodies among healthy equines in the United States. *J Am Vet Med Assoc*, 250(11):1291-1301.
- 2017 Miller MA, Burgess TL, Dodd EM, Rhyan JC, Jang SS, Byrne BA, Gulland FMD, Murray MJ, Toy-Choutka S, Conrad PA, Field C, Sidor IF, Smith WA. Isolation and characterization of marine Brucella from a Southern sea otter (*Enhydra lutris nereis*). *J Wildlife Dis*, 53(2):215-224.
- 2017 Berrian AM, Smith MH, van Rooyen J, Martinez-Lopez B, Plank MN, Smith WA, Conrad PA. A community-based One Health education program for disease risk mitigation at the human-animal interface. *One Health*, 11:5:9-20.
- 2017 James KE, Smith WA, Packham AE, Conrad PA, Pusterla N. *Toxoplasma gondii* seroprevalence and association with equine protozoal myeloencephalitis: A case-control study of Californian horses. *Vet J*, 224:38-43.

- 2018 O'Connor KE, Kjemtrup AM, Conrad PA, Swei A. An improved PCR protocol for detection of *Babesia duncani* in wildlife and vector samples. *J Parasitology*, 104(4):429-432.
- 2018 Burgess TL, Tinker MT, Miller MA, Bodkin JL, Murray MJ, Saarinen JA, Nichol LM, Larson S, Conrad PA and Johnson CK. Defining the risk landscape in the context of pathogen pollution: *Toxoplasma gondii* in sea otters along the Pacific Rim. *R. Soc. Open sci*, 5:171178.
- 2019 Wilkes, M.S., J.N. Winer, P.A. Conrad. One Health - One Education: Medical and Veterinary Interprofessional Training. *J Vet Med Educ* 46(1):14-20.
- 2019 Swei A, O'Connor KE, Couper LI, Thekkiniath J, Conrad PA, Padgett KA, Burns J, Yoshimizu MH, Gonzales B, Munk B, Shirkey N, Konde L, Ben Mamoun C., Lane RS, Kjemtrup A. Evidence for transmission of the zoonotic apicomplexan parasite *Babesia duncani* by the tick *Dermacentor albipictus*. *Int J Parasit.* 49(2):95-103.
- 2019 Berrian AM, Martínez-López B, Quan V, Conrad PA, van Rooyen J., Simpson GJG, Frean J, Weyer J, Rossouw J, Knobel D, Blumberg L. Risk factors for bacterial zoonotic pathogens in acutely febrile patients in Mpumalanga Province, South Africa. *Zoonoses and Public Health* 1-12.
DOI:10.1111/zph.12577
- 2019 Shapiro K, VanWormer E, Packham A, Dodd E, Conrad PA, Miller M. Type X strains of *Toxoplasma gondii* are virulent for southern sea otters (*Enhydra lutris nereis*) and present in felids from nearby watersheds. *Proc. R. Soc. B* 286: 20191334.<http://dx.doi.org/10.1098/rspb.2019.1334>.
- 2020 Berrian A, Wilkes M, Gilardi K, Smith W, Kazwala R, Cullor J, Conrad P, Zielinska Crook P, Mazet J. Developing a Global One Health Workforce: The Rx One Health Summer Institute Approach. *EcoHealth* 17:222–232.
- 2020 Burgess TL, Tinker TM, Miller MA, Smith W, Bodkin JL, Murray MJ, Nichol LM, Saarinen JA, Larson S, Tomoleoni JA, Conrad PA, Johnson CK. Spatial epidemiological patterns reveal mechanisms of land-sea transmission for *Sarcocystis neurona* in a coastal marine mammal. *Nature Scientific Reports* 10: 3683. Published online 2020 Feb 28. doi: [10.1038/s41598-020-60254-5](https://doi.org/10.1038/s41598-020-60254-5).
- 2020 Krecek RC, Rabinowitz PM, Conrad PA. Demystifying and Demonstrating the Value of a One Health Approach to Parasitological Challenges. *SVeterinary Parasitology* 2020 Sep 9;287:109202. doi: 10.1016/j.vetpar.2020.109202.

Book Chapters

- 1992 Conrad PA, Waldrup KA: Babesiosis and theileriosis in freeliving and captive artiodactylids, Fowler M, (ed), *Zoo and Wildlife Medicine*, WB Saunders Co, Philadelphia, PA. 506-11.
- 1994 Anderson ML, Barr BC, Conrad PA: Protozoal causes of reproductive failure in domestic ruminants, Miller RB, (ed), *Vet Clin North Am Food Anim Pract*, WB Saunders Co, 439-61.

- 1995 Courtney C, Conrad PA, Boyce WB, Barlough J: Internal parasites, Seigal M, Barlough J, (ed), UC Davis Book of Dogs, Villard Books/Random House, New York, NY. 387-407.
- 2001 Kjemtrup AM, Conrad PA: Emerging perspectives on human babesiosis, Scheld WM, Craig WA, Hughes JM, (ed), Emerging Infections, Vol. 5, ASM Press, Washington DC. pp. 175-95.
- 2008 Brewer CA, Berkowitz AR, Conrad PA, Patz JA, Porter J, Waterman M: Educating about Infectious disease ecology, Ostfeld RS, Keesing F, Eviner VT, (ed), Infectious Disease Ecology: Effects of Ecosystems on Disease and of Disease on Ecosystems, Princeton University Press, Princeton, NJ. 448-68.
- 2015 Fritz HM, Conrad PA: Part 5-06. Role of cats in Toxoplasma transmission and disease, Beugnet F, Halos L, (ed), Parasites & Vector Borne Diseases of Cats, Merial, Lyon, France. 350-63.

Presentations (since 2000 only included)

- 2000 July, Invited Speaker, *Neospora caninum* as a Cause of Reproductive Disturbances in Cattle, International Congress on Animal Reproduction. Stockholm, Sweden.
- 2000 September, Invited Speaker, Stanford Medical School Infectious Disease Rounds: Case review and presentation on human babesiosis, Stanford University, Palo Alto, CA.
- 2001 June, Invited Speaker, Human Babesiosis: New Discoveries and Challenges. University Department of Pediatrics, John Radcliffe Hospital, Oxford University, Oxford, England.
- 2001 July, Invited Speaker, Protozoal Meningoencephalitis in Harbor Seals (*Phoca vitulina richardsi*) and Southern Sea Otters (*Enhydra lutris nereis*), International Joint Conference on Veterinary Conservation Biology Wildlife Health and Management in Australia, Sydney, Australia.
- 2001 July, Invited Symposium Speaker, Emerging Protozoal Infections of Wildlife: Coccidia and Babesia, 8th International Coccidiosis Conference, Palm Cove, Australia.
- 2001 July, Phylogenetic Relationships of Piroplasm Isolates from Humans and Animals Inferred from the 18S Nuclear Small Subunit RNA Gene, Joint Conference of the Society for Tropical Veterinary Medicine and Wildlife Disease Association, Pilanesburg, South Africa.
- 2001 July, New Interactive Web- and CD-based Teaching Modules on International Animal Health Problems of Wildlife, Livestock and Horses, International Joint Conference of the Society for Tropical Veterinary Medicine and Wildlife Disease Association, Pilanesburg, South Africa.
- 2001 October, Protozoal Brain Infections in California Sea Otters and Harbor Seals: A Case of Pathogen Pollution?, Marine Research and Extension Meeting, Sacramento, CA.

- 2001 October, Invited Speaker, Emerging Protozoal Disease in California Sea Otters, Special presentations for the Division of Agriculture and Natural Resources Vice President and staff in the Office of the UC President, Davis, CA.
- 2001 October, Invited Speaker, Canine Babesiosis: A Tale of Pound Puppies and Pit Bulls, Blood Club for Clinical Pathologists, Davis, CA.
- 2002 July, Invited Speaker, Bovine Neosporosis: Past, Present and Future and Approaches to Vaccine Development, Intervet International Parasitology Research and Development Division, Boxmeer, Holland.
- 2002 August, Invited Plenary Speaker, Protozoal Problems Emerging at the Human-Wildlife-Domestic Animal Interface, International Congress of Parasitology, Vancouver, Canada.
- 2002 August, Protozoal Problems Emerging at the Human-Wildlife-Domestic Animal Interface, Wildlife Disease Association Annual Meeting, Humboldt CA.
- 2002 September, Invited Speaker, Protozoal Encephalitis in Southern Sea Otters, Marine Ecosystem Health Advisory Council Meeting, Bodega Marine Laboratory, Bodega Bay, CA.
- 2002 October, Invited Speaker, Southern Sea Otter Research Detects Protozoal Problem at the Human-Wildlife-Domestic Animal Interface, Deans Advisory Council Meeting, San Francisco, CA.
- 2003 March, Invited Plenary Speaker, A Personal Perspective on the Human and Animal Health "Connection", Wellcome Trust Workshop on Animal Health in the Developing World, Runnymede, England.
- 2003 May, Invited Speaker, Molecular and Bioassay-based Detection of *Toxoplasma gondii* Oocyst Uptake in Mussels (*Mytilus galloprovincialis*), The Seventh International Congress on Toxoplasmosis, Tarrytown, NY.
- 2003 June, Exciting Protozoological Discoveries at the Human-Wildlife-Domestic Animal Interface, Society for Tropical Veterinary Medicine Conference, Iguassu Falls, Brazil.
- 2003 June, Invited Speaker, Exciting Protozoological Discoveries at the Human-Wildlife-Domestic Animal Interface, Universitat Bern Institut fur Parasitologie, Bern, Switzerland.
- 2003 July, Invited Speaker, Exciting Protozoological Discoveries at the Human-Wildlife-Domestic Animal Interface, American Veterinary Medical Association Conference, Denver, CO.
- 2003 August, Invited Speaker, Perplexing Piroplasm (*Babesia/Theileria*) Parasites: Old Controversies and New Discoveries, World Association for the Advancement of Veterinary Parasitology, New Orleans, LA.
- 2003 September, Invited Schalm Lecturship. Exciting Discoveries at the Human-Wildlife-Domestic Animal Interface, Schalm Lecture presented 15th Annual Oscar W. Schalm Memorial Lecture and Luncheon and at public lecture, Davis, CA.

- 2003 September, Invited Speaker, Perplexing Protozoal Parasites, 16th Annual Fall Symposium on Recent Advances in Clinical Veterinary Medicine, Davis, CA.
- 2003 October, Invited Speaker, California Sea Otters and Waterborne Pathogens, California Sea Grant Review, Moss Landing, CA.
- 2004 February, Accepted for Oral Presentation, Working Together to Build a Sea Otter Research Website, Southern Sea Otter Research Update Meeting, Monterey Bay, CA.
- 2004 May, Invited Speaker, Clinically Perplexing and Problem Protozoal Parasities, Canine Medicine Club, Davis, CA.
- 2004 August, Invited Speaker, California Southern Sea Otter: Harbinger of Coastal Ocean Health, Legislative Luncheon at State Capitol, Sacramento, CA.
- 2004 August, An Unusual Genotype of *Toxoplasma gondii* is Common in California Sea Otters (*Enhydra lutris nereis*) and is Associated with Mortality, Wildlife Disease Association Conference, San Diego, CA.
- 2004 October, Invited Speaker, Impact of Neosporosis on Bovine Reproduction, Intervet Symposium on Bovine Reproduction, Londrina, Brazil.
- 2004 November, Invited Speaker, Emerging Babesiosis, International Babesiosis Forum, Nice, France.
- 2004 November, Invited Speaker, Adventures and New Discoveries at the Wildlife - Domestic Animal-Human Interface, Northern California Parasitologists, CA.
- 2005 January, Invited Speaker, Protozoal Parasites Pose a Serious Threat to Southern Sea Otters in California, Bodega Marine Laboratory, Bodega Bay, CA.
- 2005 February, Invited Speaker, What's Killing California Sea Otters?, Stanford Hopkins Marine Laboratory, Monterey Bay, CA.
- 2005 July, Detection of Pathogenic Protozoa in Marine Ecosystems Using Mussels (*Mytilus* spp) as Bioindicators, Wildlife Disease Association Conference, Cairns, Australia.
- 2005 October, Sea Otters Serve as Sentinels for Protozoal Pathogens Transmitted from the Terrestrial Hosts to Marine Mammals, World Association for the Advancement of Veterinary Parasitology, Christchurch, New Zealand.
- 2005 November, Invited Speaker, Sea Otters Serve as Sentinels for Protozoal Pathogens Transmitted from the Terrestrial Hosts to Marine Mammals., American Society for Tropical Medicine and Hygiene (ASTMH), Washington D.C. Selected talk by ASTMH Public Relations for international press release. Interviewed live by National Public Radio for nationally broadcasted Science Friday about toxoplasmosis in sea otters and humans as part of a segment on the Neglected Tropical Diseases.
- 2005 November, Invited Speaker, Identifying the Flow and Control of Pathogens from the Land to the Sea: Tracking Toxoplasma from Cats to Sea Otters, NSF-NIH Fogarty Grant Funded Ecology of Infectious Disease Meeting, Washington D.C.

- 2006 January, Invited Speaker, Southern Sea Otter Disease, Central Coast Biodiversity/Santa Lucia Gradient Study (SLGS) Workshop, Seymour Center at Long Marine Laboratory, University of California, Santa Cruz, CA.
- 2006 February, Invited Speaker, Linkages Between Cats, Run-Off, and Brain Disease in Sea Otters, Marine Mammals and Ocean and Human Health Symposium, American Association for the Advancement of Science, St. Louis Missouri. Selected for special press conference that resulted in national and international coverage of our sea otter research.
- 2006 February, Invited Keynote Speaker, Linkages Between Cats, Freshwater Run-Off, and Brain Disease In Sea Otters, Biennial Lecture In Honor of Norman Levine, University of Illinois, Urbana-Champaign, IL.
- 2006 March, Invited Speaker, Tales From the Front Lines: Perspectives of an Aldo Leopold Scientist Actively Engaged in Dealing with the Media, Symposium on Bridging the Worlds of Science and Journalism, Training Workshop for Switzer Fellows and Leadership Grantees, San Francisco, CA.
- 2006 June, Invited Symposium Speaker, The Quest for Sensitive, Specific, Quantitative Detection of Fecal Protozoa: *Cryptosporidium* in California Mussels, Protistan Parasites in Marine Waters Symposium, 9th International Workshops on Opportunistic Protists (IWOP-9) and the International Society of Protistologists Annual Meetings (ISOP), Lisbon, Portugal.
- 2006 August, Invited Speaker, Sea Otters Serve as Sentinels for *Toxoplasma gondii* Flow into the Marine Environment, XI International Congress of Parasitology (ICOPA), Glasgow, Scotland.
- 2006 September, Invited Keynote Speaker, Toxoplasma, Sea Otters and the Land-Sea Connection, Lecture for Sea Otter Awareness Week sponsored by Defenders of Wildlife and the Seymour Marine Discovery Center, Long Marine Laboratory, University of California, Santa Cruz, CA.
- 2006 September, Invited Speaker, Sea Otters Serve as Sentinels for Protozoal Pathogens Transmitted from the Terrestrial Hosts to Marine Mammals, University of Utah, Salt Lake City, UT.
- 2006 October, Invited Plenary Speaker, Bridging the Gap Between Scientists and the Public: How Can We Better Tell Our Story?, CalFed Conference Plenary Speaker, Sacramento, CA.
- 2006 November, Cats and their Feces: A Problem for Public Health and Wildlife, American Association of Tropical Medicine and Hygiene, Atlanta, Georgia.
- 2007 January, Communicating Sciences to the Media. Cal EIS Meeting, Sacramento, CA.
- 2007 March, Invited Symposium Speaker, Role of Veterinarians in International Health, 9th Annual International Health Conference: War, Poverty and Population, UC Berkeley, CA.

- 2007 May, Invited Symposium Speaker, Sea Sickness: Ocean Health and Infectious Disease, Linkages Between Cats, Run-Off, and Brain Disease in Sea Otters, American Society of Microbiology, Toronto, Canada.
- 2007 June, Invited Speaker, Linkages Between Cats, Run-Off, and Brain Disease in Sea Otters, International Conference on Toxoplasma, Chico Hot Springs, Montana.
- 2007 August, Invited Speaker, Aldo Leopold Leadership Fellowship Media Workshop, Lessons Learned: Making Your Science Make Sense, Ecological Society of America Conference, Oakland, CA.
- 2007 October, Invited Speaker, for 7 talks: Perplexing Protozoa: Improve your Diagnosis; Challenging Coccidia: Toxoplasma and Neospora; "Got You Under (and on) My Skin"; Perplexing Protozoa: Diarrheal Dilemmas; Exotic invaders are Now Residents: Leishmania and Chagas Disease; What Vets Need to Know about Ticks and New Babesia; What's Your Diagnosis?, Central Veterinary Conference, San Diego, CA.
- 2007 November, Invited Speaker, Oceans and Human Health, West Coast Regional Research and Information Needs Planning Workshop, San Francisco, CA.
- 2007 December, Invited Speaker, Bridging the Gap Between Scientists and the Public: How Can We Better Tell Our Story?, National Science Foundation-National Institutes for Health Ecology of Infectious Disease PI Meeting, Albuquerque, NM.
- 2008 February, Invited Speaker, Tracking *Toxoplasma gondii* from Land to Sea, Montana State University, Bozeman, Montana.
- 2008 July, Invited Speaker, Translatable Science: Can We Make a Difference?, Envirovet Summer Institute, White Oak Conservation Center, Yulee, Florida.
- 2008 October, Invited Speaker, *Babesia microti* and *Babesia duncani*: Genetic Differences and Clinical Features, Lyme and Other Tick-Bourne Diseases: Solutions through Cutting-Edge Science Conference, San Francisco, California.
- 2008 October, Invited Speaker, Tracing *Toxoplasma gondii* from Land to Sea, Cell, Molecular and Development Biology Seminar Series, University of California, Riverside, CA.
- 2009 February, Invited Zoonosis Symposium Speaker, Toxoplasmosis: A Re-emerging Concern, Western States Veterinary Conference, Las Vegas, NV.
- 2009 February, Invited Speaker, Tracking *Toxoplasma gondii* from Land to Sea: A Team Effort, Stanford University, CA.
- 2009 March, Invited Speaker, "One Medicine - One Health" Approach to Global Health Education, Northern California American Society of Microbiology Meeting, San Ramon, CA.
- 2009 May, Invited Speaker, Cats and Toxoplasma: Implications for Public Health, Merical Symposium, Athens, Greece.

- 2009 July, Invited Speaker, A "One Health" Perspective", International Animal Carcass Disposal Symposium, Davis, CA.
- 2009 August, Invited Speaker, Symposium organizer and moderator, XIII International Congress of Protistology, Buzios, Rio de Janeiro, Brazil.
- 2009 September, Invited Speaker, A 'One Health' Perspective, California Department of Food and Agriculture Meeting, Sacramento, CA.
- 2009 September, Invited Speaker, Envirovet Summer Institute: A Model for Training Future One Health leaders, Consortium of Universities for Global Health, Seattle, WA.
- 2009 November, Invited Society of Tropical Veterinary Medicine/ASTMH Symposium Speaker, 'One Health' Approach to Investigate Zoonotic Waterborne Protozoal Parasites in California and Tanzania, American Society of Tropical Medicine and Hygiene Conference, Washington, DC.
- 2010 February, Invited Speaker, "One Health", OIE Collaboration Meeting, University of Pretoria, Onderstepoort, South Africa.
- 2010 March, One Health Approach to Global Health Challenges and Training of Future Leaders, London School of Tropical Hygiene and Medicine, London, UK.
- 2010 March, Invited Lecturer, Zoonoses Course, Stanford University, CA.
- 2010 July, Invited Speaker, What Have Southern Sea Otters Taught Us About 'One Health'?, Aquarium of the Pacific, Long Beach, CA.
- 2010 July, Invited Speaker, Scientific Citizenship - Translating Research into Action, Envirovet Summer Institute, White Oak Conservation Center, Yulee, FL.
- 2010 September, Sea Otter Research; One Health Approach to the Land to Sea Challenges of Pathogen Pollution, UC Davis Symposium on Sea and Coast, Bodega Bay, CA.
- 2010 November, Invited Keynote Speaker, Introduction to the One Health Concept: An Approach to Global Health Challenges, 'Where Medics and Vets Join Forces' Symposium, Institute of Tropical Medicine, Antwerp, Belgium.
- 2011 January, Invited Keynote Speaker, Zoobiquity/One Health, Zoobiquity Conference, University of California, Los Angeles, CA.
- 2011 March, Invited Speaker, Global Health: Linking Human and Wildlife Health to the Environment, Woodland Park Zoo hosting the ZACC Conference, Seattle, WA.
- 2011 March, Invited Speaker, Zoonotic Disease Transmission at the Interface Between Wildlife, Domestic Animals and Humans, Student Chapter of the American Veterinary Medical Association National Symposium, Davis, CA.
- 2011 March, Tracking *Toxoplasma gondii* from Land to Sea: A Team Effort, National Science Foundation Ecology of Infectious Disease PI Meeting, Madison, WI.

- 2011 August, One Health: An Approach to Global Health Challenges, Aga Khan Medical School in Nairobi, Kenya, Nelson Mandela African Institute of Science and Technology in Arusha, Tanzania and Public Health Foundation of India in Delhi, India.
- 2011 September, Invited Speaker, Confronting Climate Change: Why One Health Makes Sense, Climate Change: Adapting to Impacts on Health and the Environment Conference, University of California, Riverside, CA.
- 2011 October, Invited Opening Ceremony Keynote Speaker, One Health: An Approach to Global Health Challenges, World Veterinary Congress, Cape Town, South Africa.
- 2012 February, Invited Speaker, Bovine *Neospora*, International Symposium on Worldwide Infectious Diseases of Farm Animal in Production Medicine, Sapporo, Japan.
- 2012 February, Invited Speaker, One Health: An Approach to Global Health Challenges, National Institute of Animal Health, Tsukuba-shi, Ibaraki, Japan.
- 2012 April, Invited Speaker, *Giardia* and *Cryptosporidium*, Stanford University, Palo Alto, CA.
- 2012 May, Invited Speaker, One Health: An Approach to Global Health Challenges, R G Thomson Lecture, Atlantic Veterinary College, Prince Edward Island, Canada.
- 2012 June, Invited Speaker, One Health Approach to Otters, Oocysts and Oceans, American Society of Microbiology Conference, San Francisco, California.
- 2012 June, Invited Speaker, *Toxoplasma gondii*: Exploring the Land and Sea Connection, Reno, Nevada.
- 2012 August, Toxoplasma and the Risks Posed by Fecal Contamination of the Environment by Domestic and Feral Cats, 2nd Meriel Advisory Board Meeting on Parasitology and Vector Borne Diseases, Prague, Czech Republic.
- 2012 September, Invited Speaker, One Health Approach to Otters, Toxoplasma Oocysts and Oceans, Institute for Parasitology, University of Zurich, Zurich, Switzerland.
- 2012 September, Invited Keynote Speaker, One Health: An Approach to Global Health Challenges, University of Pretoria Faculty of Veterinary Science Post-graduate Symposium, Pretoria, South Africa.
- 2012 September, Invited Speaker, Adventures and New Discoveries to Becoming an 'Eco-Scientist', Nelson Mandela African Institute for Science and Technology, Arusha, Tanzania.
- 2012 October, Invited Speaker, One Health Projects at UC Davis, North Carolina One Health Collaborative, Raleigh/Durham, NC.

- 2013 March, Invited Speaker for 2 talks, One Health Approach to Otters, Toxoplasma Oocysts and Oceans to College of Veterinary Medicine; and Operationalizing One Health to Tackle Global Health Challenges to Campus, Texas A&M University, College Station, TX.
- 2013 April, Invited Speaker, One Health Approach to Waterborne Protozoal Disease, Stanford University, Palo Alto, CA.
- 2013 May, Invited Speaker, One Health Approach to Otters, Toxoplasma oocysts and oceans, Bodega Marine Laboratory, Bodega Bay, CA.
- 2013 May, Invited Speaker, Congressional Briefing on Emerging Disease and Coastal Health, Organized by the Coastal Education and Research Foundation, Washington, DC.
- 2013 August, Invited Speaker, Update on One Health Training, University of Pretoria, Onderstepoort, Republic of South Africa.
- 2013 October, Invited Speaker, One Health Approach to Otters, Toxoplasma Oocysts and Oceans. New Zealand Society for Parasitology, Palmerston North, New Zealand.
- 2014 January, Invited Speaker, International One Health Workshop, Davis, CA.
- 2014 April, One Health Approach to Otters, Toxoplasma Oocysts and Oceans, University of California, Berkeley, CA.
- 2014 September, Invited Speakers, Taking the One Health Approach from Classroom Cases to Field Experiences, International One Health Conference, University of Peradeniya, Sri Lanka.
- 2014 November, Invited Speaker, Global One Health: A Personal Perspective, UC Davis School of Medicine Global Health Night, Sacramento, CA.
- 2015 February, Invited Speaker, Does A One Health Approach Make Sense for Myanmar?, Care for Peace Board and Membership Strategic Planning Retreat, Marin, CA.
- 2015 March, Invited Keynote Speaker, Otters, Toxoplasma Oocysts, Oceans and One Health: What's the Connection?, College of Veterinary Medicine Research Day, Ohio State University, Columbus, OH.
- 2015 April, Invited Speaker, One Health Institute: Working at the Interface of Animals, People and the Environment. Why Wildlife?, Global Opportunities and Challenges Conference, Uppsala Sweden.
- 2015 May, Invited Speaker, Learning From Yesterday, Planning for Tomorrow, American College of Veterinary Internal Medicine, Indianapolis, IN.
- 2015 August, Invited Speaker, Global Health, One Health, Planetary Health: What's the Difference for You and UC Davis?, UC Davis School of Medicine Global Health Night, Sacramento, CA.
- 2015 October, Invited Speaker, 13th Annual Pre-Medical and Pre-Health Professions National Conference, Davis, CA.

- 2015 November, Invited Speaker, One Health in Action: Overview of the Sri Lanka Project, Academics Without Borders, Davis, CA.
- 2016 January, Invited Speaker, A One Health Approach to Global Health: Surveillance for emerging infectious disease. Pathways Kenya 2016, Nanyuki, Kenya.
- 2016 January, One Health presentation with Dean Lairmore at California State Capitol, Sacramento, CA.
- 2016 April, Invited Speaker, One Health Approach to World's Biggest Patient, Stanford University, Palo Alto, CA.
- 2016 April, Invited Speaker, What About Climate Change and Protozoal Disease?, 6th Parasitology Advisory Committee Meeting on " Impact of climate change on Parasitoses and Vector Borne Diseases of animals – actual observations and predictions", Bangkok, Thailand.
- 2016 June, One Health Research Approach to Global Human, Animal and Environmental Health, UCD² Symposium, University College Dublin, Dublin, Ireland.
- 2017 February, Invited Perspectives on Planetary Health Speaker, Rockefeller Foundation Invitational 'Conversations on Planetary Health: Build Connections, Explore Common Goals', New York City, NY.
- 2017 March, Invited Speaker, Perplexing Protozoa: A Gateway to Wildlife and Global One Health, 3rd International Congress of Parasites of Wildlife 2017, Sakuza, Kruger National Park, Republic of South Africa
- 2017 May, Invited Panelist, Big Issues in Toxoplasma Research, TOXO 2017 International Congress on Toxoplasmosis, Tomar, Portugal.
- 2017 August, Invited 2017 AVMA Lifetime Excellence in Research Award Speaker, Research: Not for me!, National Veterinary Scholars Symposium, National Institutes of Health, Bethesda, MD.
- 2017 November, Invited Speaker, One Health Approach: A Human-animal-environmental Perspective on Health Challenges, Stanford University, Palo Alto, CA.
- 2017 December, Keynote Speaker, UC Davis One Health and Planetary Health Programs: Collaboration is Critical, One Health International Conference, Bangkok, Thailand
- 2018 March, Keynote Speaker, Challenge the Dogma and be Amazed by Your Discoveries, Penn Vet Student Research Day, School of Veterinary Medicine, University of Pennsylvania, Philadelphia, PA.

- 2018 April, Invited Speaker, Expanding Our Perspectives on Global Health, Great Decisions 2018 Seminar Series, Davis United Methodist Church Collaboration, Davis, CA.
- 2018 May, Keynote Speaker, Advantages of a One Health Approach to Address Challenges of Climate Change, One Health Symposium: Climate Change, Stanford University, Palo Alto, CA.
- 2018 June, Keynote Speaker, My 4-H Challenge, State 4-H Animal Science Symposium, UC Davis, Davis, CA.
- 2019 April, Keynote Speaker, A Protozoologist's Tale from Dogma to Discovery: How Babesia inspired and surprised me, 2nd International Babesiosis Summit, Yale University, New Haven, CT.
- 2019 April, Invited Speaker, One Health and Planetary Health, Introduction to Environmental Health Science graduate course, University of California, Berkeley, CA.
- 2019 May, Invited Speaker, One Health Approach to Zoonotic Disease: A Sea Otter Story, Stanford University, Palo Alto, CA.
- 2019 July, Keynote Speaker, Babesia and Toxoplasma Discoveries at the Human-Animal-Environment Interface, World Association for the Advancement of Veterinary Parasitology, Madison, Wisconsin.
- 2019 September, Invited Speaker, Restructuring Universities to Support Planetary Health, Stanford University, Palo Alto, CA.

Patents Filed since 2014

- 2015 Fritz H, Conrad P. Antibodies to the surface of *Toxoplasma gondii* oocysts and methods of use thereof.
U.S. Patent Application 62/146,063 filed Apr 29, 2015
- 2018 Fritz H, Conrad P. Antibodies to the surface of *Toxoplasma gondii* oocysts and methods of use thereof.
U.S. Patent Application 15/548,062 filed February 15, 2018