

CURRICULUM VITA 2012

Patricia J. Holman, PhD

PRESENT POSITION AND ADDRESS:

Title: Research Associate Professor

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EDUCATION:

<u>Degree/Training</u>	<u>Conferring Institution</u>	<u>Field</u>	<u>Year</u>
BA	Winthrop College	Biology	1974
MS	University of Nebraska	Microbiology	1976
PhD	Texas A&M University	Veterinary Microbiology	1994

PROFESSIONAL EXPERIENCE AND ACADEMIC APPOINTMENTS:

1978-1987 Research Associate, Department of Veterinary Parasitology, Texas Agricultural Experiment Station (TAES), College of Veterinary Medicine (CVM), Texas A&M University (TAMU).

1987-1991 Senior Research Associate, Department of Veterinary Microbiology and Parasitology, TAES, CVM, TAMU.

1991- 1995 Senior Research Associate, Dept Veterinary Pathobiology (VTPB), TAES, CVM, TAMU.

1995-2000 Assistant Research Scientist, VTPB, TAES, CVM, TAMU.

2000-2005 Associate Research Scientist, VTPB, TAES, CVM, TAMU.

2005-2009 Research Assistant Professor, VTPB, TAES, CVM, TAMU

2006-present Graduate Advisor, VTPB

2009-present Research Associate Professor VTPB, AgriLife Research, CVM, TAMU

AWARDS AND HONORS:

John Paul Delaplane Award, Graduate Research

Phi Beta Delta Honor Society

Society of Phi Zeta, Eta Chapter, Honorary Award - research

Phi Kappa Phi Honor Society

MEMBERSHIPS:

Society for Tropical Veterinary Medicine, American Society for Microbiology, and American Association of Veterinary Parasitologists

REVIEWER - JOURNALS:

Editorial Boards, member: Veterinary Parasitology (2010) and Parasitology Research (2011)

Ad hoc, American Journal of Tropical Medicine and Hygiene, Experimental Parasitology, Journal of Clinical Microbiology, Journal of Emerging Infectious Diseases, Parasitology, Parasitology Research, Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases

RESEARCH/SCHOLARLY ACTIVITIES:

NIAID NIH RO3 AI054799-01. Comparison of US and European *Babesia divergens* Isolates.

PI P.J. Holman (2003-2005).

Morris Animal Foundation D04CA-08. Canine babesiosis: Prevalence and Establishment of Continuous Parasite Cultures. PI Patricia Holman (2004-2006).

Texas A&M Agri-Life Research. *Boophilus* Ticks and their Pathogens – an Epidemiological Survey of Reservoir Hosts for Texas Tick Fever. PI Patricia Holman Co-I S Cooper, TAES-Uvalde (2008).

Texas A&M Agri-Life Research. DNA Vaccine Targeting *Babesia* Apical Membrane Antigen-1 and Cysteine Protease. PI Patricia Holman (2008).

USDA CREES Formula Animal Health AH9250. Expression Microarray Analysis of the Tick Resistant Phenotype in Cattle. PI Patricia Holman. Co-I James Womack (2007-2008)

National Research Fund for Tick-Borne Diseases. *Babesia microti*: In vitro Culture and Molecular Interaction between Parasite and Host Receptors at Invasion. PI PJ Holman, (2006-2009).

RESEARCH/SCHOLARLY ACTIVITIES CONTINUED

Texas AgriLife Research Vector-Borne Disease Program. PI, PJ Holman, Co-investigators W Mwangi, TM Craig, GG Wagner, and USDA/ARS KBUSRL collaborators P Olafson and J Howell. Development of an Efficacious Vaccine against Tick Fever in Cattle (2009-2011).

Morris Animal Foundation D12FE-017. PI, PJ Holman, Collaborator Mason Reichard OSU. Feline Cytauxzoonosis: Establishment of Continuous Parasite Cultures. 2012-2014

BIBLIOGRAPHY Selected Publications in Refereed Journals:

1. **Holman, PJ**, K Waldrup, G Wagner. In vitro cultivation of a *Babesia* isolated from a white-tailed deer (*Odocoileus virginianus*). Journal of Parasitology 74:111-115 (1988).
2. **Holman, PJ**, KA Waldrup, RE Droleskey, DC Corrier, GG Wagner. In vitro growth of *Babesia bovis* in white-tailed deer (*Odocoileus virginianus*) erythrocytes. J Parasitol 79:233-237 (1993).
3. Beattie JF, ML Michelson, **PJ Holman**. Acute babesiosis caused by *Babesia divergens* in a resident of Kentucky. The New England Journal of Medicine 347:697-698 (2002).
4. **Holman, PJ**, MM Hsieh, JL Nix, K Bendele, GG Wagner, JM Ball. A cathepsin L-like cysteine protease is conserved among *Babesia equi* isolates. Mol Bioch Parasitol 119:295-300 (2002).
5. Langton C, J Gray, PF Waters, **PJ Holman**. Naturally-acquired babesiosis in a reindeer (*Rangifer tarandus tarandus*) herd in Great Britain. Parasitol Res 89:194-198 (2003).
6. **Holman PJ**, K Bendele, L Schoelkopf, RL Jones-Witthuhn, SO Jones. Ribosomal RNA analysis of *Babesia odocoilei* isolates from farmed reindeer (*Rangifer tarandus tarandus*) and elk (*Cervus elaphus canadensis*) in Wisconsin. Parasitol Res 91:378-383 (2003).
7. **Holman PJ**, AM Spencer, RE Droleskey, HK Goethert, SR Telford III. In vitro cultivation of a zoonotic *Babesia* sp. isolated from eastern cottontail rabbits (*Sylvilagus floridanus*) on Nantucket Island, Massachusetts. J Clin Microbiol 43:3995-4001 (2005).
8. **Holman PJ**, AM Spencer, SR Telford III, HK Goethert, AJ Allen, DP Knowles, WL Goff. Comparative infectivity of *Babesia divergens* and a zoonotic *Babesia divergens*-like parasite in cattle. Am J Trop Med Hyg 73:865-870 (2005).
9. Spencer A, HK Goethert, SR Telford III, **PJ Holman**. In vitro host erythrocyte specificity and differential morphology of *Babesia divergens* and a zoonotic *Babesia* sp. from eastern cottontail rabbits (*Sylvilagus floridanus*). J Parasitol 92(2):333-340 (2006).
10. Aktas, M, KG Bendele, K Altay, N Dumanli, M Tsuji, **PJ Holman**. Sequence polymorphism in the ribosomal DNA ITS differs among *Theileria* species. Vet Parasitol 147:221-230 (2007).
11. Lehtinen, L, AJ Birkenheuer, RE Droleskey, **PJ Holman**. In vitro cultivation of a newly recognized *Babesia* sp. in dogs in North Carolina. Vet Parasitol 151:150-157 (2008).
12. Garretson, PD, E Hammond, TM Craig, **PJ Holman**. Anthelmintic resistant *Haemonchus contortus* in a giraffe in Florida. J Zoo Wildlife Med 40(1): 131-139 (2009).
13. **Holman, PJ**, B Backlund, A Wilcox, R Stone, A Strickland, K Bardin. Detection of a large unnamed *Babesia* piroplasm that was originally identified in dogs in North Carolina in a dog with no history of travel to that state. J Am Vet Med Assoc 235(7): 851-854 (2009).
14. Bisby, TM, **PJ Holman**, GA Pitoc, RA Packer, CA Thompson, RE Raskin. *Sarcocystis* sp. encephalomyelitis in a cat. Vet Clin Pathol 39(1):105-112 (2010).
15. Ramos, C, S Cooper, **PJ Holman**. Molecular and serologic evidence for *Babesia bovis*-like parasites in white-tailed deer (*Odocoileus virginianus*) in South Texas. Vet Parasitol 172:214-220 (2010).
16. **Holman, PJ**, J Carroll, R Pugh, D Davis. Molecular detection of *Babesia bovis* and *Babesia bigemina* in white-tailed deer (*Odocoileus virginianus*) from Tom Green County in central Texas. Vet Parasitol 177: 298-304 (2011).

Invited Book Chapter: **Holman, P.J.**, G. Schurig, and J.T. Douglas. Development of Monoclonal Antibodies to Brucella Cell Surface Antigens *In Monoclonal Antibodies against Bacteria*, Vol. II, Academic Press, Inc., NY (1985), pp. 82-110.

OTHER SCHOLARLY ACTIVITIES Collaborator, The Roslin Wellcome Trust Tick Cell Biobank, maintaining a global collection of tick cell lines available for research endeavors (2009 to present).