

BIOGRAPHICAL SKETCH

NAME	HOLMAN, Patricia	POSITION TITLE	Associate Research Scientist
EDUCATION/TRAINING			
	INSTITUTION AND LOCATION	DEGREE	YEAR CONFERRED
	Winthrop College, Rock Hill, SC	B.A.	1974
	University of Nebraska, Microbiology, Lincoln, NE	M.S.	1976
	Texas A&M University, College Station, TX	Ph.D.	1994
			FIELD OF STUDY
			Biological Science
			Immunology
			Veterinary Microbiology

Professional Experience

1978-1987	Research Associate, TAES, College of Veterinary Medicine, Texas A&M University.
1987-1991	Senior Research Associate, Department of Veterinary Microbiology and Parasitology, TAES, College of Veterinary Medicine, Texas A&M University.
1991-1995	Senior Research Associate, Department of Veterinary Pathobiology, TAES, College of Veterinary Medicine, Texas A&M University.
1995-2000	Assistant Research Scientist, Department of Veterinary Pathobiology, Texas Agricultural Experiment Station (TAES), College of Veterinary Medicine, Texas A&M University.
2000	Associate Research Scientist, Department of Veterinary Pathobiology, Texas Agricultural Experiment Station (TAES), College of Veterinary Medicine, Texas A&M University

Honors and Awards

John Paul Delaplane Award for Graduate Research, 1994
Phi Kappa Phi Honor Society, 1994

Publications in the last 5 years and earlier pertinent publications

- Sahagun-Ruiz, A., S.D. Waghela, P.J. Holman, L.P. Chieves, and G.G. Wagner (1997). Biotin-Labeled DNA Probe in a PCR-Based Assay Increases Detection Sensitivity for the Equine Hemoparasite *Babesia caballi*. *Veterinary Parasitology* 73:53-63.
- Holman, P.J., T. Becu, E. Bakos, G. Polledo, and G.G. Wagner (1998). *Babesia equi* Field Isolates Cultured from Horse Blood Using a Microcentrifuge Method. *The Journal of Parasitology* 84:696-699.
- Chae, J.S., O.D. Kwon, S.D. Waghela, P.J. Holman, G.G. Wagner and J.M. Lee (1998). Identification and Sequence Analysis of Small Subunit Ribosomal RNA Gene of Bovine *Theileria* Isolates from Korea and Japan. *Korean Journal of Parasitology* 38:909-917.
- Chae, J-S., O.D. Kwon, P.J. Holman, S.Waghela, G.G. Wagner, and J.M. Lee (1998). Identical Small Subunit Ribosomal RNA Gene Nucleotide Sequence of Bovine *Theileria* Isolates (Korea and Japan) and *Theileria buffeli* (Marula, Kenya). *Korean Journal of Parasitology* 36:47-53.
- Chae, J.S., J.M. Lee, O.D. Kwon, P.J. Holman, S.D. Waghela, and G.G. Wagner (1998). Nucleotide Sequence Heterogeneity in the Small Subunit Ribosomal RNA Gene Variable (V4) Region among and within Geographic Isolates of *Theileria* from Cattle, Elk, and White-tailed Deer. *Veterinary Parasitology* 75:41-52.
- Chae, J.S., B.A. Allsopp, S.D. Waghela, J.H. Park, T. Kukuda, C. Sugimoto, M. Allsopp, G.G. Wagner, and P.J. Holman (1999). A Study of the Systematics of *Theileria* spp. Based upon Small Subunit Ribosomal RNA Gene Sequences. *Parasitology Research* 85:877-883.
- Chae, J-S., M. Levy, J. Schlater, S.D. Waghela, M. Levy, G.L. Snider, J. Schlater, P.J. Holman and G.G. Wagner (1999). *Theileria* spp. Infections Associated with Bovine Fatalities in the U.S. Confirmed by Small Subunit Ribosomal RNA Gene Analyses of Blood and Tick Samples. *Journal of Clinical Microbiology* 37:3037-3040.
- Chae, J.S., S.D. Waghela, T.M. Craig, A. Kocan, G.G. Wagner, and P.J. Holman (1999). Two *Theileria cervi* SSU rRNA Gene Sequence Types Found in Isolates from White-tailed Deer and Elk in North America. *Journal of Wildlife Diseases* 35:458-465.
- Holman, P. J., J. Madeley, T.M. Craig, B.A. Allsopp, M. Allsopp, K.R. Petrini, S. D. Waghela, and G.G. Wagner (2000). Antigenic, Phenotypic and Molecular Characterization Confirms *Babesia odocoilei* Isolated from Three Cervine Hosts. *Journal of Wildlife Diseases* 36:518-530.
- Snowden, K., K. Logan, C. Blozinski, J. Hoevers, and P. Holman (2000). Restriction-Fragment-Length Polymorphism Analysis of Small Subunit rRNA Genes of *Blastocystis* Isolates from Animal Hosts. *Parasitology Research* 68:62-66.
- Hoevers, J., P. Holman, K. Logan, M. Hommel, R. Ashford, and K. Snowden (2000). Restriction-Fragment-Length Polymorphism Analysis of small subunit rRNA Genes of *Blastocystis hominis* Isolates from Geographically Diverse Human Hosts. *Parasitology Research* 86:57-61.

- Sahagun Ruiz, A., S.D. Waghela, M.M. Romany, P.J. Holman, D. Melendy, D. Cruz, and G.G. Wagner (2000). Common High Molecular Weight Antigen of *Babesia bovis* Isolates from Mexico. *International Journal for Parasitology* 30:59-64.
- Cossio-Bayugar, R., G.G. Wagner, P.J. Holman (2002). *In Vitro* Generation of Organophosphate Resistant *Boophilus microplus* (Acari: Ixodidae) Cell Lines. *Journal of Medical Entomology* 39:278-284.
- Cossio-Bayugar, R., R. Barhoumi, R.C. Burghardt, G.G. Wagner, P.J. Holman (2002). Cellular Homeostasis in Organophosphate Resistant *Boophilus microplus* (Acari: Ixodidae) Cell Lines. *Pesticide Biochemical Physiology* 72:1-9.
- Cossio-Bayugar, R., P.J. Holman (2002). *Theileria buffeli* Infection of a Michigan Cow Confirmed by Small Subunit Ribosomal RNA Gene Analysis. *Veterinary Parasitology* 105:105-110.
- Holman, P.J., M.M. Hsieh, J.L. Nix, K. Bendele, G.G. Wagner, J.M. Ball (2002). A Cathepsin L-like Cysteine Protease is Conserved among *Babesia equi* Isolates. *Mol Biochem Parasitol* 119:295-300.
- Holman, P.J., Swift, P., Frey, R., Bennett, J., Cruz, D., G. Wagner (2002). Genotypically Unique *Babesia* spp. Isolated from Reindeer (*Rangifer tarandus tarandus*) in the United States. *Parasitol Res* 88:405-411.
- Holman, P.J., Swift, P.K., Frey, R.E., Bennett, J., Cruz, D., and G.G. Wagner (2002). Genotypically Unique *Babesia* spp. Isolated from Reindeer (*Rangifer tarandus tarandus*) in the United States. *Parasitology Research* 88:405-411.
- Beattie, J.F, Michelson, M.L., and P.J. Holman (2002). Acute babesiosis caused by *Babesia divergens* in a resident of Kentucky. *The New England Journal of Medicine* 347:697-698.
- Mahmoud, M., Hsieh M, Bendele, K, Holman, P.J.. Multiple Cysteine Protease Genes in *Babesia microti* and *Babesia equi*. *Proceedings of the 10th International Congress of Parasitology - ICOPA X Vancouver Canada (August 2002)*, pp 517-521.
- Langton, C., Gray, J., Waters, P.F., and P.J. Holman. Naturally-acquired *Babesia divergens* Infection in Reindeer in Great Britain. *Parasitology Research*. In press (2002).

Grants in the last 5 years

- 1993-1998 H-6261. Texas Agricultural Experiment Station. "Infectious Diseases and International Livestock Movement." Total R&G funding about \$49,000. Co-Investigator P.J. Holman (with G.G. Wagner, Principal Investigator).
- 1995-1998 USDA/ARS, 58-6202-6-086. Development of Molecular Probes for Detection of Acaricide Resistance in Cattle Fever Ticks. Principal Investigator, G.G. Wagner, Co-Investigator, P.J. Holman \$140,000.
- 1996-1998 Postdoctoral Research Grant from the Korean Science Foundation. "srRNA Gene Analysis to Discriminate *Theileria* spp. in Domestic and Wildlife Ruminants" Annual salary support \$15,000. Annual R&G Funding \$5,000. Joon-seok Chae, Principal Investigator. P.J. Holman, G.G. Wagner, and S.D. Waghela, Co-Investigators.
- 1997-1998 U.S. Department of Agriculture, Formula Animal Health 1433. Organophosphate Resistance in *Boophilus microplus* ticks: *In vitro* Studies on Mechanisms of Resistance. Principal Investigator P.J. Holman \$35,400.
- 1999-2001 Advanced Technology Program. Molecular Diagnostic Assays for the Detection of *Babesia equi* in Horses. Principal Investigator P.J. Holman \$92,000.
- 1999-2001 College of Veterinary Medicine Signature Programs Enhancement Initiative. Innovative Means to Control Avian Coccidiosis. Project Coordinator G.G. Wagner, Project 2 Leader P.J. Holman, "A multi-valent consensus peptide vaccine based on proteases crucial to the invasive processes of *Eimeria* into the host cell blocks coccidia infection and induces a protective immune state in chickens." Total funding for 3 projects \$15,000.
- 2000 Veterinary Large Animal Medicine Research Grant, Texas A&M University. Development of an Assay for Detection of Active Infection of Horses by *Sarcocystis neurona*. Patricia Holman, Co-PI (Noah D.Cohen, PI) \$4000.
- 2000-2002 The Schubot Exotic Bird Health Center Grant (Texas A&M University). Molecular Methods for Identification of *Atoxoplasma* and Diagnosis of *Atoxoplasmosis* in Birds. Principal Investigator Patricia J. Holman. Graduate student research assistantship funded for Paulette Waters, MS candidate \$28,000.
- 2002 The Schubot Exotic Bird Health Center Grant (Texas A&M University). *In Vitro* Evaluation of Avian and Human Isolates of *Encephalitozoon* spp. Co-Investigator Patricia J. Holman (Karen Snowden, PI) \$4000.