Ellen W. Collisson, Ph.D., Professor

College of Veterinary Medicine, Western University of Health Sciences

Pomona, California

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EDUCATION

Degree	Conferring Institution	Field	Year
B.S.	University of Illinois, Urbana	Microbiology	1968
M.S.	University of Alabama, Birmingham Medical Center	Microbiology	1978
Ph.D.	University of Alabama, Birmingham Medical Center	Microbiology	1980

PROFESSIONAL EXPERIENCE AND ACADEMIC APPOINTMENTS:

1968-1971 Secondary School Science Teacher, Peace Corps Volunteer in Malawi & Ghana, Africa.

1978-1980 Biology Teacher, Jefferson State Junior College, Birmingham, AL

1980-1981 Post-Doctoral Fellow, Molecular Virologist, University of Alabama Medical Center, Birmingham, AL.

1981-1984 Research Associate, Microbiologist, Molecular Virologist, USDA, ARS, Denver, CO.

1985-1990 Assistant Professor, Department of Veterinary Microbiology & Parasitology, Member of Genetics Faculty, Texas A&M University, College Station, TX.

1990-1996 Associate Professor, Department of Veterinary Pathobiology, Member of Genetics Faculty, Texas A&M University, College Station, TX.

1996-2007 Professor, Department of Veterinary Pathobiology, Member of the Faculties of Genetics, Professional Program in Biotechnology, and Virology, Texas A&M University, College Station, TX.

2007-pres. Professor, College of Veterinary Medicine, Western University of Health Sciences, Pomona, CA; Professor Emerita, Texas A&M University.

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JOURNAL REVIEWER

Recent ad hoc reviewer for J Virology, Virology, Developmental & Comparative Immunology, Avian Pathology, Virus Research, Vaccine, Lancet, Virus Genes

PUBLICATIONS since 2003

Pei, J, Briles, WE & Collisson, EW. 2003. Memory T cells protect chicks from acute infectious bronchitis virus infection, Virology, 206:376-384.

Winslow, BJ, Cochran, MD, Holzenburg, A, Sun, J, Junger, DE & Collisson, EW. 2003. Replication and expression of a swinepox virus vector delivering feline leukemia virus gag and env to cell lines of swine and feline origin. Virus Res. 98(1):1-15.

Phadke, AP, Choi, IS, Li, Z, Weaver EA and Collisson, EW. 2004. Role of inducer cells and cell-cell contact in mediating non-cytolytic suppression of feline immunodeficiency virus *in vitro*. Virology, 320:63-74.

Brooks JE, Rainer, AC, Parr, RL, Woolcock, P, Hoerr & Collisson, EW. 2004 Comparisons of the membrane gene of various strains of avian infectious bronchitis virus show evidence of recombination. Virus Res, Mar;100(2):191-8.

Weaver, EA, Collisson, EW (corresponding author), Slater, M. & Zhu, G,. 2004. Phylogenetic analyses of Texas isolates imply the emergence of a new feline immunodeficiency virus clade. J Virol, 78;2158-63.

Vahlenkamp, TW, Bull ME, Dow JL, Collisson EW, Winslow BJ, Phadke AP, Tompkins WA, Tompkins MB. 2004. B7CTLA4 T cells engage in T-T cell interactions that mediate apoptosis: a model for lentivirus-induced T cell depletion. Vet Immun Immunopath, 98(3-4):203-14.

Bull, ME, Vahlenkamp, TW, dow, JL, Collisson, EW, Winslow, BJ, Phadke, AP, Tompkins, MB and Tompkins, WAF. 2004. Spontaneous T cell apoptosis in feline immunodeficiency virus (FIV)-infected cats is inhibtied by IL2 and anti-B7.1 antibodies. Vet Immun Immunopath, 99:25-37.

Pei, J & Collisson, EW. 2005. Specific antibody secreting cells from chickens can be detected by three days and memory B cells by three weeks post-infection with the avian respiratory coronavirus. Devel Comp Immunol, 29:153-160.

Youn, SJ, Leibowitz, J & Collisson, EW. 2005. *In vitro* Assembled, Recombinant Infectious Bronchitis Viruses Demonstrate that the 5a Open Reading Frame is not Essential For Replication in Vero Cells. Virology, 332:206-215.

Li, Z, Weaver, EA, Phadke, A, Ball, j, Wolf, AM & Collisson, EW. 2005. Feline $CD8^+$ T Cells Induced with Feline Immunodeficiency Virus Infected, T Cells Produce Multiple, Anti-FIV Factors, Devel Comp Immunol, 332:206-215.

Jayaram, J, Youn, S & Collisson, EW. 2005. The virion infectious bronchitis virus N protein is more phosphorylated than the N protein from infected cell lysates. Virology, 339:127-135.

Youn, SJ, Collisson, EW & Machamer, CE. 2005. Contribution of trafficking signals in the cytoplasmic tail of the infectious bronchitis virus spike protein to virus infection. Virology, 332:206-215.

Winslow, BJ, Kalabat, DY, Brown, SM, Cocran, MD & Collisson, EW. 2005. Feline B7.1 and B7.2 proteins produced from swinepox virus vectors are natively processed and biologically active. Vet Micro, 111:1-13.

Bohls, R, Ferro, PJ, Smith, R, Li, Z, Silvy, N & Collisson, EW. 2006. The use of flow cytometry to discriminate avian lymphocytes from contaminating thrombocyte. Devel Comp Immunol 30:843-850.

Phadke, A, de la Concha-Bermejillo, A, Wolf, AM, Andersen, PR, Baladandayuthapani, V & Collisson, EW. 2006. Pathogenesis of a Texas feline immunodeficiency virus isolate: An emerging subtype of clade B, Vet. Micro, 114:64-76.

Bohls, RL, Linares, JA, Gross, SL, Ferro, PJ, Silvy, NJ and Collisson, EW. 2006. Phylogenetic Analyses Indicate Little Variation Among Reticuloendotheliosis Viruses Infecting Avian Species, Including the Endangered Attwater's Prairie Chicken. Virus Res, 119:187-194.

Hariharan, J, Fan, H , Bowman, BR, Ooi, A, Jayaram, J, Collisson, EW, Julian, L, Prasad, BVV. 2006. X-ray structures of the N and C-terminal domains of a coronavirus N protein: Structural basis of nucleocapsid formation. Journal Virology, 80:6612-6620.

Bolhs, RL, Collisson, EW, Silvy, NJ and Phalen, D. 2006. Pathogenesis of reticuloendotheliosis virus in the endangered Attwater's prairie chicken. Avian Diseases, 50:613-9.

Collisson, EW and Bohls, RL. 2006. Development of regents for the study of reticuloendotheliosis virus in the endangered Attwater's praire chicken. 55th Western Poultry Disease, Annual Meeting. March, Sacramento, CA.

Youn, S, Collisson, EW, & Machamer, CE. 2006. Transcriptional regulation of RNA3 of infectious bronchitis virus. Adv Exp Med Biol. 2006;581:109-12.

Collisson, EW, Singh, S & Omran, T. 2007. IDevelopments in avian influenza virus vaccines. Invited review, J Poultry Sci. , 44 (No.3):238-257.

Collisson, EW, Drechsler, Y & Singh, S. 2008. Evolving vaccine choices for the continuously evolving avian influenza virus. Invited review, CAP Reviews: Perspectives in Agriculture, Veterinary Medicine, Nutrition and Natural Resourses, in press.

Drechsler, Y, Bohls, RL, Smith, R, Silvy, N, Lillehoj, H, and Collisson, EW.2009. An avian, oncogenic retrovirus replicates *in vivo* in more than fiftey percent of CD4 and CD8 T lymphocytes from an endangered grouse. Virology, 386:380-386.

Smith AG, Jayaram J, Johnson CB, Ellis EA, Vitha S, Collisson EW, Holzenburg A.2009. Improved protein detection using cold microwave technology. Methods Mol Biol. 2009;536:533-43.

PAST RESEARCH FUNDING since 2003

2002-2003 PI. Baylor Center for AIDS Research, "A Small Animal Model for AIDS" $40,000.

2002-2003 PI, U.S. Poultry and Egg Association, "Construction of an IBV Molecular Clone for Vaccine Development and Gene Delivery," $41,000.

2003-2004 PI, NIH NIAID, Reagents and Reference Reagent Program, "Anti-viral factors from stimulated T cells, $21,873.

2003-2004 PI, IDEXX Corporation- "Pathogenesis Study for a New Clade of FIV," 48,500.

2005. Co-In, National Wildlife Services. Developing strategies to control REV in the endangered Attwater's prairie chicken. $3000.

2005-2006 Co-In, Blanca Lupiani as PI USDA CAP grant, Developing recombinant vaccines for avian influenza virus, $60,000

2006 PI, Pfizer, proprietary research, $38,000.

2006-2007 Co-P.I., P.I. Cheng Kao, NIH NIAID, "Activities of the SARS endonuclease," $1,2 million for 5 years.

CURRENT FUNDING

2005-2008 PI, USDA competitive grant, "Maximizing the memory T cell response to avian influenza virus." $350,000, 2006-2009.

2005-2007 Co-In, Mark Westhusin as PI, "Production of new models for biomedical research by RNAi," $400,000 for 2 years.

2006-2011 PI, Federal Wildlife Service, "Controlling for the REV Threat to the Endangered Attwater's Prairie Chicken," $50,000/year for 5 years ($250,000).

2007-2010 Co-Inv- USDA-NRI, Mark Westhusisin PI. "Endogenous gene silencing by RNA interference: A new and effective method to study functional genomics in livestock species," $449,209.

2007-2010 Co-Inv-USDA Avian Influenza Cooperative Agriculture Program. PI-Haroldo Toro (Auburn University), "Non-replicating adenovirus vaccines for avian influenza," $101,940.

2008-2010 PI-USDA Avian Influenza Cooperative Agriculture Program. "Avian Influenza Education for Families with Backyard Poultry in Southern California," $83,915.

2008-1011 PI, USDA-NRI, Competitive grants program, "Impact of immune responses of chickens with defined B haplotypes on resistance to respiratory coronavirus infection." $375,000.