

CURRICULUM VITAE

NAME: **Robert Paul Ellis**

RANK: **Professor and University Biosafety Officer**

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COLLEGE AND UNIVERSITY EDUCATION:

1962-66 B.S. University of Wyoming, Laramie, Wyoming (Microbiology)
1966-69 M.S. Purdue University, Lafayette, Indiana (Veterinary Microbiology)
1969-72 Ph.D. Purdue University, Lafayette, Indiana (Veterinary Microbiology and Immunology)

BOARD CERTIFICATIONS:

Certified Biological Safety Professional, American Biological Safety Association
Diplomate, American College of Microbiology (Specialist Microbiologist, Biological Safety)
Diplomate, American College of Veterinary Microbiology (Honorary)

TEACHING, RESEARCH, AND RELATED APPOINTMENTS:

1966-71 Graduate Instructor; Research and Teaching, Veterinary Microbiology, Purdue University, Lafayette, Indiana

1971-75 Assistant Professor; Research, Diagnostics, and Teaching, Veterinary Microbiology, South Dakota State University, Brookings, South Dakota

1975-77 Associate Professor; Research, Diagnostics, and Teaching, Veterinary Microbiology, South Dakota State University, Brookings, South Dakota

1978-87 Associate Professor; Research and Teaching, Veterinary Microbiology and Immunology, Colorado State University, Fort Collins, Colorado

1986-89, 1997-present Biosafety Officer; Colorado State University, Fort Collins, Colorado

1987-present Professor; Research and Teaching, Veterinary Microbiology and Immunology, Colorado State University, Fort Collins, Colorado

1989-92 Head; Diagnostic Bacteriology, Veterinary Diagnostic Laboratory, Colorado State University, Fort Collins, Colorado

1989-present Adjunct Professor; Department of Veterinary Sciences, University of Wyoming, Laramie, Wyoming

RECENT JOURNAL PUBLICATIONS:

Nieves, R.A., **R.P. Ellis**, and M.E. Himmel. 1990. Monoclonal antibody purification of *Trichoderma reesei* EGI. Appl. Biochem. Biotech. 24/25:397-406.

Nieves, R.A., M.E. Himmel, R.J. Todd, and **R.P. Ellis**. 1990. Cross-reactive and specific monoclonal antibodies against cellobiohydrolases I and II, and endoglucanases I and II of *Trichoderma reesei*. Appl. Environ. Microbiol. 56:1103-1108.

Kimberling, C.V. and **R.P. Ellis**. 1990. Advances in the control of foot rot in sheep. In: The Veterinary Clinics of North America, Food Animal Practice, Advances in Sheep and Goat Medicine, Mary C. Smith, Ed., V. 6, No. 3, pp. 671-681, Nov. 1990, W.B. Saunders and Co., Philadelphia, PA.

John, G.H., J.O. Carlson, C.V. Kimberling, and **R.P. Ellis**. 1990. Polymerase chain reaction amplification of the constant and variable regions of the *Bacteroides nodosus* pilin gene. J. Clin. Microbiol. 28:2456-2461.

O'Toole, D., K. Mills, **R. Ellis**, R. Farr and M. Davis. 1994. Clostridial enteritis in red lories (*Eos bornea*). J. Vet. Diagn. Invest. 5:111-113.

Grotelueschen, D.M., R.G. Mortimer and R.P. Ellis. 1994. Vesicular adenitis syndrome in beef bulls: a case investigation. JAVMA 205:874-877.

Belknap, E.B., D. Getzy, L. Johnson, **R. Ellis**, G. Thompson, and W.P. Shulaw. 1994. *Mycobacterium paratuberculosis* infection in two llamas. JAVMA 204:1805-1808.

Salman, M.D., **R.P. Ellis**, C.M. Gaborick, J.M. Triantis, R.J. Todd, and W.C. Black IV. 1994. Utilization of a five antigen ELISA system and PCR techniques for the screening and detection of bovine tuberculosis. The Kenya Veterinarian 18(2):571.

Anderson, L.K., S.M. Stack, R.J. Todd, and **R.P. Ellis**. 1994. A monoclonal antibody to lateral element proteins in synaptonemal complexes of *Lilium longiflorum*. Source Chromosoma 103(5):357-367.

Hutchison, J.M., F.B. Garry, E.B. Belknap, D.M. Getzy, L.W. Johnson, **R.P. Ellis**, S.L. Quackenbush, J. Rovnak, E.A. Hoover, and G.L. Cockerell. 1995. Prospective characterization of the clinicopathologic and immunologic features of an immunodeficiency syndrome affecting juvenile llamas. Vet. Immunol. Immunopath. 49:209-227.

Gaborick, C.M., M.D. Salman, **R.P. Ellis**, and J. Triantis. 1996. Comparison of a five antigen ELISA with tuberculin skin testing for the diagnosis of *Mycobacterium bovis* in cattle and deer. JAVMA 209:962-965.

Ellis, R.P. DNA Analysis for Wildlife Forensics. Chapter in the Wildlife Forensic Field Manual, William J. Adrian, Ed., Printed by the Assoc. Of Midwest Fish and Game Law Enforcement Officers, 1996.

East, L. M., C. J. Savage, J. L. Traub-Dargatz, C. E. Dickinson, and **R. P. Ellis**. 1998. Enterocolitis associated with *Clostridium perfringens* infection in neonatal foals: 54 cases (1988-1997). JAVMA 212:1751-1756.

John, G. H., R. Smith, K. J. Abraham and **R. P. Ellis**. 1999. Identification and grouping of *Dichelobacter nodosus*, using PCR and sequence analysis. Cellular and Molecular Probes 13:61-65.

Tillotson, K, Traub-Dargatz, J., Dickinson, C. E., **Ellis, R. P.**, Morley, P. S., Hyatt, D., Magnuson, R. J., and Salman, M. D. Clostridial shedding in feces of brood mares and foals, an epidemiological investigation. International Society for Veterinary Epidemiology and Economics 9th International Symposium, Proceedings: 569-572 (2000).

Ellis, R. P., Larsen, R. E., and Tews, G. E. Design, Construction, Commissioning, and Operation of a Biosafety Level 3 Building. Proceedings, American Biological Safety Assoc., 43rd (2000) Annual Meeting, Washington, DC.

Robert P. Ellis and Anita C. Dennison. *Clostridium perfringens* A Enterotoxemia: Enteric Disease and Death Due to *Clostridium perfringens*, The Alpaca Registry Journal 6:21-24 (2001).

Robert P. Ellis and Roberta J. Magnuson. Testing Camelids for Immune Competence. The Alpaca Registry Journal 6:46-48 (2001).

Tillotson K, Traub-Dargatz J, Dickinson C, **Ellis R**, Morley P, Hyatt D, Magnuson R, Riddle T, Bolte D and Salman M. Population based study of fecal shedding of *Clostridium perfringens* in broodmares and foals. JAVMA 220:342-348 (2002).

Anita C. Dennison, David C. Van Metre, Robert J. Callan, Page Dinsmore, Gary L. Mason, and **R. P. Ellis**, Hemorrhagic bowel syndrome in dairy cattle: 22 cases (1997-2000). JAVMA 221:686-689 (2002).

Anita C. Dennison, David C. Van Metre, Paul S. Morley, Robert J. Callan, Emily C. Plampin, and **R. P. Ellis**, Comparisons of the odds of isolation, genotypes, and in vivo production of major toxins by *Clostridium perfringens* obtained from the gastrointestinal tract of dairy cows with hemorrhagic bowel syndrome or left-displaced abomasum. JAVMA 227:132-138 (2005).

RECENT BIOSAFETY ACTIVITIES:

Training Courses:

The first annual "Biosafety and Biosecurity in Clinics and Research Laboratories" training course was organized by **R. P. Ellis** and held at Colorado State University July 26-30, 2004.

The first 2 days (Monday and Tuesday) covered basic Biosafety, with topics including risk assessment, containment, understanding and applying the BMBL, rDNA guidelines, administrative duties of the Biosafety Officer, Biosafety Committee structure and function, mechanisms of encouraging compliance, and the Select Agent program. **Bob Ellis** was the primary instructor for this portion of the course.

Wednesday morning was HEPA filters (function, certification) and Biosafety cabinets (classification, function, proper use, hazards, etc) taught by Ed Canfield.

Wednesday afternoon was Veterinary hospital and clinic biosecurity (infection control) and agricultural premises biosecurity, taught by Paul Morley.

Thursday was Large animal containment, ABL-3 AG, and other considerations regarding the use and containment of large animals, taught by Scott Rusk.

Friday was Laboratory animal containment and management, taught by David Neil.

There were over 40 registrants for the first course, from throughout the US and one each from Slovakia and Singapore.

The Second Annual "Biosafety and Biosecurity Training Course" was held July 8-15, 2005. The course included 2 days of general Biosafety and Biosecurity, 2 ½ days of plant research Biosafety and Biosecurity, and 2 ½ days of animal Biosafety and Biosecurity. There was a total of 72 registrants for the course; 57 in the Animal Sessions (July 8-10), 72 in the General Sessions (July 11-12) and 28 in the Plant Sessions. The enrollees were from the USA, and from several other countries (Argentina, Canada, Costa Rica, and Taiwan), and represented government, industry and universities. There are 13 instructors, 7 of whom are from Colorado State University.

The 3rd Annual Annual Biosafety and Biosecurity Training Course will be held July 7-14, 2006, at the Hilton Fort Collins.

Short Courses:

Eagleson Summer Seminar Series, 2001, Fort Collins, CO

Basic Microbiology and Disinfection

This was a 2-day course held at CSU May 7-8. There were 31 persons enrolled from several countries and continents. I taught 8 hours, and organized the whole 2-day course. The Eagleson Institute and the American Biological Safety Association were the sponsors of the course. In addition to this course, there was a simultaneous 2-day course entitled Design and Construction of BSL-3 and a half day course on Arthropod-Borne Viruses and Related Biosafety Precautions.

ABSA Pre-Conference Course, 2001

Biosafety and Containment of Arthropod-Borne Viruses and Vectors

This was a 4 hour course held at the American Biological Safety Association in New Orleans October 20, 2001. There were 28 persons enrolled from several countries and continents. Ken Olson and I shared the teaching with each of us presenting approximately 2 hours. The Eagleson Institute and the American Biological Safety Association were the sponsors of the course.

ABSA Summer Seminar Series, San Francisco, 2003

Planning, Construction and Operation of a BSL-3 Building

8 hour class, 63 enrollees

University of Hawaii, Manoa, 2003

Planning, Construction and Operation of a BSL-3 Building
16 hour class, 51 enrollees

ABSA Pre-Conference Course, Philadelphia, 2003

Planning, Construction and Operation of a BSL-3 Building
8 hour class, 45 enrollees limit (35 enrolled as of 9/16/03)

ABSA Summer Seminar Series, Chicago, 2004

Planning, Construction and Operation of a BSL-3 Building
16 hour class, June 21-22

ABSA Pre-Conference Course, San Antonio, 2004

Planning, Construction and Operation of a BSL-3 Building
16 hour class, October 15-16

ABSA Pre-Conference Course, Vancouver, BC, 2005

BSL-3 Facility Design Considerations
4 hour class, October 23

Book Chapter:

Biosafety issues and solutions for working with infected mosquitoes, in Anthology of Biosafety, VI: Arthropod-borne Diseases. Jonathan Y. Richmond, Ed., ABSA, 2003, pp. 25-38. Ken E. Olson, PhD Director, Arthropod-borne and Infectious Diseases Laboratory Department of Microbiology, Immunology, and Pathology Colorado State University Ft. Collins, CO 80523-1682 Randall E. Larsen, AIA The FWA Group Two Bank of America Plaza 101 South Tryon Street Charlotte, NC 28280 **Robert P. Ellis**, PhD University Biosafety Officer, CBSP (ABSA), SM (ASM) Professor, Department of Microbiology, Immunology, and Pathology College of Veterinary Medicine and Biomedical Sciences Colorado State University Ft. Collins, CO 80523-1682.

Academic Service, Biosafety Related:

University Academic Service

	Role	Year Range
Biosafety Committee	Member	1978-1989 and 1997 - Current
Biosecurity Strategic Planning Committee	Chair	2002 - Current
Emergency Task Force	Member	2000 – Current
Agriterrorism Education	Presenter	2002

College Academic Service

Veterinary Teaching Hospital Biosecurity Committee	Member	1998 - Current
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Other Academic Service

Larimer County Office of Emergency Mgmt	Member	2001 – Current
State Region 8 Emergency Planning Task Force	Member	2002 - 2005
Steering Committee for Medical Reserve Corp	Member	2002 - 2004
County Smallpox Vaccination Planning Committee	Member	2002 – 2004

Administrative Service:

University Biosafety Officer, 1986-1989, 1997 – 2002

The University Biosafety Officer is responsible for ensuring that all research involving infectious microorganisms and rDNA at CSU is conducted according to local, state, and national guidelines and regulations.

Professional Service:

American Biological Safety Association, elected to the Council, October 2004-2007.
American Biological Safety Association, ABSA Member, and member of Education and Training Committee
Biosafety Committee, National Renewable Energy Laboratory, Golden, CO
Biosafety Committee, National Wildlife Research Laboratory, Fort Collins, CO

Editorial Boards:

Animal Health Research Reviews Founding Editor-in-Chief, 1999-2001
Editorial Board, 1999-present
Conference of Research Workers in Animal Diseases
Executive Director, 1988-present
Editor, CRWAD Proceedings
Applied Biosafety, Editorial Board, 2004

In addition to the above, I have conducted and reported on facility audits ranging from individual laboratories for private and public entities, to a comprehensive biosecurity and biosafety audit of the research and clinic operation at a college of veterinary medicine.