

CURRICULUM VITAE  
James A. Roth, DVM, PhD, DACVM  
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**Address:** Department of Veterinary Microbiology and Preventive Medicine  
College of Veterinary Medicine, Iowa State University, Ames, Iowa 50011  
Phone: (515) 294-8459 Fax: (515) 294-8259 Email: jaro@iastate.edu

<i>Institution</i>	<i>Degree</i>	<i>Date</i>	<i>Major</i>
Iowa State University	D.V.M.	1975	Veterinary Medicine
Iowa State University	M.S.	1979	Veterinary Microbiology (Immunology)
Iowa State University	Ph.D.	1981	Veterinary Microbiology (Immunology)

**Professional Experience:**

1975-1977 Employed as a practicing veterinarian in a general veterinary practice in Belle Plaine, Iowa.  
1977-1995 Adjunct Instructor, Instructor, Assistant Professor, Associate Professor, Professor, Department of Veterinary Microbiology and Preventive Medicine, College of Veterinary Medicine, Iowa State University, Ames, Iowa.  
1995-Present Clarence Hartley Covault Distinguished Professor, Department of Veterinary Microbiology and Preventive Medicine, Iowa State University, Ames, Iowa.  
1995-Present Executive Director, Institute for International Cooperation in Animal Biologics. An OIE Collaborating Center for Diagnosis of Animal Disease and Vaccine Evaluation in the Americas. The IICAB was jointly formed by Iowa State University, USDA/APHIS and USDA/ARS.  
2002-Present Director, Center for Food Security and Public Health. Iowa State University  
2006-Present Adjunct Professor, Department of Epidemiology, College of Public Health, University of Iowa, Iowa City, Iowa.  
2008-Present President, Transboundary Animal Biologics, Inc., A not-for-profit corporation with a mission to enhance the availability of veterinary biologics for transboundary diseases.

**Advisory Panels:**

Interagency Weapons of Mass Destruction (WMD) Counter Measures Working Group – Animal Pathogens Research and Development Subgroup (2003-2004)  
White House Office of Science and Technology Policy (OSTP) Agroterrorism Countermeasures Blue Ribbon Panel (Dec 2003- March 2004), (Chair, Immunotherapeutics Working Group)  
National Science Advisory Board for Biosecurity (NSABB) (2005-2011) (Level 2 Secret Security Clearance)  
National Academies of Science, National Research Council Committee on Evaluation of a Site Specific Risk Assessment for the Department of Homeland Security's Planned National Bio- and Agro-Defense Facility in Manhattan, Kansas (2010-Present)

**Selected Honors and Awards:**

Diplomate, American College of Veterinary Microbiologists, 1982  
Norden Distinguished Teacher Award, Iowa State University, 1983, 1993  
Basic Science Teaching Award, Student Chapter American Veterinary Medical Association, Iowa State University, 1991, 1997, 2001  
Distinguished Veterinary Immunologist Award, American Association of Veterinary Immunologists, 1997  
John G. Salsbury Endowed Chair in Veterinary Medicine, 1998-2001  
AVMA 12th International Veterinary Congress Prize, 2001  
AVMA Public Service Award, 2006  
Distinguished Veterinary Microbiologist Award, American College of Veterinary Microbiologists, 2009

### **Contract and Grant Support:**

Dr. Roth has been *Principal Investigator or Project Director* on \$25,392,446 in grant support since 1989: including \$6,581,085 from HHS, \$12,828,040 from USDA, \$668,899 from DHS, and \$3,694,048 from industry.(updated: 1-18-12)

### **Selected Peer-Reviewed Publications (from a total of 160):**

- Spickler, A.R., D.W. Trampel, J.A. Roth. 2008. The onset of virus shedding and clinical signs in chickens infected with high pathogenicity and low pathogenicity avian influenza viruses. *Avian Path*, 37:555-577.
- Tamin, A., B.H. Harcourt, M.K. Lo, J.A. Roth, M.C. Wolf, B. Lee, H. Weingartl, J.C. Audonnet, W.J. Bellini, P.A. Rota. 2009. Development of a neutralization assay for Nipah virus using pseudotype particles. *J Virol Methods*, 160:1-6.
- Trampel, D.W., J.T. Zack, T. Clouse, V. Rao, D. Bickett-Weddle, G.B. Brown, H.S. Hurd, G.I. Garris, J.A. Roth. 2009. Federal and state transport plan for movement of eggs and egg products from non-infected commercial table egg premises in a high pathogenicity avian influenza control area – a model for protecting animal health, human health, and business continuity during a foreign animal disease outbreak. *JAVMA*, 235:1412-1419.
- Platt, R., B.A. Sponseller, Y.W. Chiang, J.A. Roth. 2010. Cell-mediated immunity evaluation in foals infected with virulent equine herpesvirus-1 by multi-parameter flow cytometry. *Vet Immunol Immunopathol*, 135: 275-281.
- Roth J.A., A.R. Spickler. 2010. Duration of immunity to companion animal vaccines. *Anim Health Res Rev*, 11(2):165-190.
- Platt, R., C.O. Thoen, R.J. Stalberger, Y.W. Chiang, J.A. Roth . 2010. Evaluation of the cell-mediated immune response to reduced doses of *Mycobacterium avium* ssp paratuberculosis vaccine in cattle. *Vet Immunol Immunopathol*, 136:122-126.
- Ingebritson, A.L., J.A. Roth, P.J. Hauer. 2010. *Erysipelothrix rhusiopathiae*: Association of spa-type with serotype and role in protective immunity. *Vaccine*, 28: 2490-2496.
- Ackermann, M., R. Derscheid, J.A. Roth. 2010. Innate immunology of bovine respiratory disease. *Vet Clin North Am Food Anim Pract*, 26: 215-228.
- Plattner, B.L., Y.W. Chiang, J.A. Roth, R. Platt, E. Huffman, J. Zylstra, J.M. Hostetter. 2011. Direct inoculation of *Mycobacterium avium* subspecies paratuberculosis into ileocecal Peyer's patches results in colonization of the intestine in a calf model. *Vet Pathol*, 48:584-592.
- Roth, J.A. 2011. Veterinary vaccines and their importance to animal health and public health. *Proc Vaccinol*, 5:127-136.
- Platt, R., A.L. Vincent, P.C. Gauger, C.L. Loving, E.L. Zanella, K. M. Lager, M.E. Kehrli, Jr., K. Kimura, J. A. Roth. 2011. Comparison of humoral and cellular immune responses to inactivated swine influenza virus vaccine in weaned pigs. *Vet Immunol Immunopathol*. 142:252– 257
- Gay, C.G., D.P. Knowles, J.A. Roth, M.E. Kehrli, G.H. Palmer, M. Pappaioanou. 2011. Enhancing the role and participation of veterinarians in biomedical research. *Proc 1st Global Conf Evolv Vet Ed Safer World*. 113-122.
- Gauger P.C, A.L. Vincent, C.L. Loving, K.M. Lager, B.H. Janke, M.E. Kehrli Jr, J.A. Roth. 2011. Enhanced pneumonia and disease in pigs vaccinated with an inactivated human-like ( $\delta$ -cluster) H1N2 vaccine and challenged with pandemic 2009 H1N1 influenza virus. *Vaccine*, 24:2712-2719.

**Selected Contributions to Monographs:**

Rovid Spickler, A., J.A. Roth. 2010. Zoonoses, In: The Merck Veterinary Manual, 10th edition. pp. 2747-2819.

Rovid Spickler, A., J. Galyon, J.A. Roth. 2010. Descriptions of Recent Incursions of Exotic Animal Diseases. In: A. Rovid Spickler and J.A. Roth, (eds): Emerging and Exotic Diseases of Animals, 4th edition. Center for Food Security and Public Health, Iowa State University, Ames, IA. 383 pages. ISBN 0-978-0-9745525-8-3.

Roth, J. A., J. Galyon, A. Stumbaugh. 2010. Causes and consequences of emerging and exotic diseases of animals: Role of the veterinarian. In: A. Rovid Spickler and J.A. Roth, (eds): Emerging and Exotic Diseases of Animals, 4th edition. Center for Food Security and Public Health, Iowa State University, Ames, IA. 383 pages. ISBN 0-978-0-9745525-8-3.

**Selected Monographs Edited:**

Virulence Mechanisms of Bacterial Pathogens. J.A. Roth (ed.) Washington, DC, American Society for Microbiology, 1988, 390 pages.

Characterization and Quantitation of Immunogens in Veterinary Biologics. T.O. Bunn and J.A. Roth (eds.) Veterinary Microbiology, 1993, 37(3-4), 424 pages.

Virulence Mechanisms of Bacterial Pathogens, 2nd edition. J.A. Roth, C. Bolin, K. Brogden, F.C. Minion and M. Wannemuehler (eds.) Washington, D.C., American Society for Microbiology, 1995, 366 pages.

Virulence Mechanisms of Bacterial Pathogens, 3rd edition. K. Brogden, J.A. Roth, T. Stanton, C. Bolin, F.C. Minion and M. Wannemuehler (eds.) Washington, D.C., American Society for Microbiology, 2000, 294 pages.

Veterinary Clinics of North America: Food Animal Practice, Special Issue on Immunology. J.A. Roth (ed.) 2001, 17:463-646.

Vaccines for OIE List A and Emerging Animal Diseases. F. Brown and J.A. Roth (eds.) Biologicals, 2003, 114, 306 pages.

Emerging and Exotic Diseases of Animals. A. Rovid Spickler and J.A. Roth (eds.) Center for Food Security and Public Health, Iowa State University, 2003, 182 pages. ISBN # 0-9745525-0-X.

Emerging and Exotic Diseases of Animals, 2nd edition. A. Rovid Spickler and J.A. Roth (eds.) Center for Food Security and Public Health, Iowa State University, 2004, 192 pages. ISBN 0-9745525-3-4.

Emerging and Exotic Diseases of Animals, 3rd edition, A. Rovid Spickler and J.A. Roth (eds.) Center for Food Security and Public Health, Iowa State University, 2006, 297 pages. ISBN 0-9745525-4-2.

Handbook for Zoonotic Diseases of Companion Animals. G. Dvorak, A. Rovid Spickler, and J.A. Roth (eds) Center for Food Security and Public Health, Iowa State University, 2008. 359 pages. ISBN 0-9745525-6-9.

Emerging and Exotic Diseases of Animals, 4th edition. A. Rovid Spickler, J.A. Roth, J. Galyon and J. Lofstedt (eds.) Center for Food Security and Public Health, Iowa State University, 2010, 383 pages. ISBN 0-978-0-9745525-8-3.

Enfermedades Emergentes y Exóticas de los Animales, Primera Edición. A. Rovid Spickler, J.A. Roth, J. Galyon, J. Lofstedt, and M.V. Lenardon (eds.) Center for Food Security and Public Health, Iowa State University, 2010, 336 pages. ISBN 978-0-9846270-0-4.