

## **Practical Disease Prevention Tools for Veterinarians and Animal Producers**

**Presenter:** Danelle Bickett-Weddle, Iowa State University

**Co-Presenter:** James Roth, Iowa State University

**Session:** Oral

**Date/Time:** Monday, April 23; 2-3PM

Increasing biological risk management (BRM)/biosecurity on the farm is the most important thing an animal producer can do to protect animals from endemic diseases, foreign animal diseases and agroterrorism, and to protect the public from zoonotic diseases. The Center for Food Security and Public Health at the Iowa State University College of Veterinary Medicine developed a comprehensive set of practical disease management tools for veterinarians and producers built around the routes of disease transmission. One set of tools is specifically designed for veterinarians to use with beef, dairy or equine clients. Veterinarians access an online database of biological risk management assessment questions and create a question set based on the type of farm being evaluated. Then they conduct a walk through assessment on the farm and enter the results on-line. A report of the most vulnerable routes of disease transmission is generated along with recommendations to enhance biological risk management. The veterinarian works with the producer to prioritize and implement the recommendations. The second set of tools is designed for use by beef and dairy farmers and ranchers and is available in English and Spanish. Materials include informational handouts, disease fact sheets, farm signs, economics of risk management, and how to protect production units if a foreign animal disease is diagnosed in the U.S. Materials for both audiences are available at [www.cfsph.iastate.edu/BRM](http://www.cfsph.iastate.edu/BRM) and will be demonstrated in the presentation.

### **Biographies:**

Dr. Bickett-Weddle received a BS degree in Animal Science at South Dakota State University in 1995 and her DVM at Iowa State University in 1999. She practiced as a small animal veterinarian in Sioux Falls, South Dakota before joining Land O' Lakes Farmland Feed as a dairy field nutritionist and technical services manager in February of 2000. In that position, she provided consultation to dairy producers in South Dakota, Nebraska, Minnesota, and Iowa until November 2002. She received her MPH from the University of Iowa in December 2003 and is the Associate Director for the Center for Food Security and Public Health. Just this summer she became board certified in Veterinary Preventive Medicine. Dr. Bickett-Weddle led the development of the risk management materials and is currently pursuing a PhD focusing on dairy biosecurity.

Dr. James Roth is a Distinguished Professor in the College of Veterinary Medicine at Iowa State University. He received his DVM and a PhD in immunology from Iowa State University and has authored or coauthored over 130 scientific publications, 28 book chapters, and has edited seven books and one textbook. He is the Director of the Center for Food Security and Public Health established in 2002 at ISU, which is designated by the US Centers for Disease Control and Prevention as a "Center for Public Health preparedness in veterinary medicine and zoonotic diseases." Dr. Roth has served as the Executive Director of the Institute for International Cooperation in Animal Biologics (IICAB) since its establishment in 1995. The IICAB is an effort by ISU and the USDA institutions in Ames to use their knowledge and expertise to better serve animal health needs throughout the world. A major activity is the Veterinary Biologics Training Program held each year in May. Dr. Roth participated in the *Interagency Weapons of Mass Destruction Counter Measures Working Group (Animal Pathogens Research and Development Subgroup)*, he was also appointed to the *White House Office of Science and Technology Policy Agroterrorism Countermeasures Blue Ribbon Panel (Dec 2003)*, and to Chair the Vaccine and Protection Technologies Working Group of this Panel. Both of these groups developed priorities for vaccine development for agroterrorism defense. Dr. Roth was appointed by the Secretary of Health and Human Services to serve on the National Science Advisory Board for Biosecurity (2005 to 2008). He received the AVMA 12<sup>th</sup> International Veterinary Congress Prize, 2001 and the AVMA Public Service Award in 2006.

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