

A Pathology Image Data Base for Zoonotic and Emerging Animal Diseases

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An image data base for zoonotic, foreign, and emerging animal diseases is incorporated into an existing website <http://www.cfsph.iastate.edu/DiseaseInfo/factsheets.htm> created by the Center for Food Security and Public Health (CFSPH), which was initially funded by the CDC, and is associated with the OIE Collaborating Centre for Diagnosis of Animal Diseases and Vaccine Evaluation in the Americas at the Iowa State University College of Veterinary Medicine. A partnership with the CFSPH, ISU Department of Veterinary Pathology, USDA-APHIS, Armed Forces Institute of Pathology (AFIP), and numerous contributors has brought together veterinary and human medical agencies to 1) provide a national and international resource of accessible high quality images for educational use; and 2) incorporate digitized images of clinical signs and necropsy lesions into an existing web-based course, *Emerging and Exotic Diseases of Animals (EEDA)*, currently used by 24 of 28 U.S. veterinary colleges. The project was initiated due to: limited accessibility to high quality gross necropsy lesions; the limited course availability for these topics; and the need to train veterinarians, veterinary students, and other professionals in the recognition and differentiation of these diseases. The data base can be viewed through the website using any Internet browser, and gives users the ability to search for disease fact sheets and view photographs of clinical signs and lesions. This website will benefit and be accessible to universities and other state and governmental agencies that train veterinary students, DVMs, diagnosticians, DVM pathologists, and related professionals in zoonotic diseases.

Biographies:

Dr. Claire Andreasen received her DVM degree from Texas A&M in 1982, was an associate veterinarian from 1982-1985, and then completed a pathology residency, MS (1987) and PhD (1990) from the University of Georgia, Department of Veterinary Pathology, and board certification as a Diplomate of the American College of Veterinary Pathologists (ACVP). Dr. Andreasen was a faculty member at Oregon State University College of Veterinary Medicine before coming to the Iowa State University College of Veterinary Medicine in 1996. She is currently a Department Chair, Professor, and Pathology Laboratory Director. She has authored or co-authored over 60 peer-reviewed journal articles, 70 abstracts and proceedings, 18 book chapters, was section editor for 2 textbooks, and on the board of scientific reviewers for journals. She received the Pfizer Award for Research Excellence in 1994, the Student Chapter of the American Veterinary Medical Association Clinical Sciences Teaching Award in 2001, and has served in a number of leadership positions in professional organizations. Her areas of expertise include host-cell interactions during infectious diseases, especially in poultry, and clinical pathology and diagnostic pathology education. For the project, Dr. Andreasen is responsible for coordination of contributors, contacts with agencies and personnel to obtain images, organization of conference calls and meetings of participants, and review and selection of images and materials.

Dr. James A. Roth is a Distinguished Professor in the College of Veterinary Medicine, and a Diplomate of the American College of Veterinary Microbiologists. He is the Executive Director of the Institute for International Cooperation in Animal Biologics (IICAB), which is a World Organization for Animal Health OIE Collaborating Centre for the Diagnosis of Animal Diseases and Vaccine Evaluation in the Americas. Dr. Roth also is the Director of the Center for Food Security and Public Health (CFSPH). Dr. Roth received his DVM and a PhD in immunology from Iowa State University. He has served as the major or co-major professor for 38 MS and PhD students. He has authored or coauthored over 130 publications in refereed journals, 27 chapters, and has edited 8 monographs and two textbooks. Dr. Roth teaches immunology to veterinary students, has received 5 teaching awards, and numerous professional and scientific awards, including the American Veterinary Medical Association's 12th International Veterinary Congress Prize (2001) and Public Service Award (2006). His research emphasis includes neutrophil, lymphocyte, and monocyte/macrophage function related to host-pathogen interactions and vaccine responses. Dr. Roth has responsibility for oversight of coordinating CFSPH personnel involved in the CFSPH website images, review of website modifications, and review of materials.
