

**Joan K. Lunney, PhD**  
**CRWAD Fellow Inductee**

Dr. Joan Lunney is a Supervisory Research Scientist in the Animal Parasitic Diseases Laboratory, Beltsville Agricultural Research Center (BARC), Agricultural Research Service (ARS), USDA. Her current research focuses on swine immunology, genomics, and resistance to diseases, particularly to porcine reproductive and respiratory syndrome (PRRS).

Dr. Lunney coleads the US PRRS Host Genomics Consortium (PHGC) which assesses the role of genetics in determining pig resistance and susceptibility to PRRS virus infection, pathology and associated growth effects. The PHGC effort has been expanded to functional genomics and proteomics as well as to a pregnant gilt model of PRRS virus transmission from mother to fetus in collaboration with Canadian scientists.

Dr. Lunney has also focused her efforts on producing and characterizing monoclonal antibodies (mAb) reactive against swine immune cell subset, or CD, antigens and immune proteins, the cytokines and chemokines. She coled the US-UK Collaborative Swine Immune Toolkit effort aimed at developing new mAb, immune reagents and quantitative assays for assessment of pig health and vaccine responses and for use in biomedical models of human health and disease. Dr. Lunney has worked with industry, particularly through the National Pork Board and PigGen Canada, Inc., and animal health and breeding companies, to expand her research efforts.

Dr. Lunney is very actively involved in mentoring younger scientists, particularly women scientists. She was selected as a fellow of the American Association for the Advancement of Science (1998) and of the International Society for Animal Genetics (2017) and received the ARS Beltsville Area Scientist of the Year Award (2010). She was inducted into the ARS Hall of Fame (2019) and in 2022 was just announced as a winner of a Presidential Rank Award as a Meritorious Senior Professional. She has served on numerous grant panels, journal editorial boards and in leadership positions for animal genetic and veterinary immunology societies.

