



Tod Hansen

Dr. Thomas R. (Tod) Hansen is the Mabel I. and Henry H. Traubert Professor of Animal Genetics and Director of the Animal Reproduction and Biotechnology Laboratory, which includes the Equine Reproduction Laboratory as a Program of Research and Scholarly Excellence at Colorado State University (CSU). He also serves as Director of the CSU Biomedical Sciences Foothills Campus. He earned the BS degree in Animal Sciences at CSU and the MS and PhD degrees in Reproductive Physiology at Texas A&M University. After completing post-doctoral studies in Molecular Biology at the University of Missouri, he served as Professor at the University of Wyoming and then was recruited to CSU in the Department of Biomedical Sciences. His research focuses on: 1) embryo-maternal signaling with intent to reduce early embryo mortality (i.e., miscarriage); 2) implantation of the embryo and development of the placenta to better understand and manage intrauterine growth restriction of the fetus; and 3) maternal infection with virus during pregnancy to discover how maternal viral infections impair development of the fetal immune system and post-natal immune responses to secondary infections. His research has been funded by the NIH-NICHD, NIH-INBRE, USDA-NIFA, American Cancer Society and biotechnology/biopharma companies. He is Principal Director of a USDA National Needs Fellowship PhD training program and teaches Human and Animal Reproduction to undergraduate and graduate Biomedical Sciences students.