**Epidemiology Course Instructors**

**Dr. Yrjö Gröhn** ([ytg1@cornell.edu](mailto:ytg1@cornell.edu)) is a professor of epidemiology at the Department of Population Medicine and Diagnostic Sciences, Cornell University. His research interests have evolved from studies of basic metabolism in ruminants and genetics to veterinary epidemiology, economic modeling and food safety. The two main areas of investigations currently ongoing in his laboratory are: 1) optimizing health and management decisions, and 2) mathematical modeling of zoonotic infectious diseases (such as *L. monocytogenes*, *E. coli*, MDR salmonella and paratuberculosis). The focus of the zoonotic infectious disease modeling research is to develop a farm-to-table model of food borne pathogens’ transmission. In the pre-harvest stage of food production we are studying the direct and indirect transmission of pathogens. In the post-harvest stage of food production we are concentrating on the development of science based environmental testing and control strategies. In addition to food borne pathogens, we have developed mathematical and economic models for Johne’s disease.

Dr. Gröhn is the course coordinator. For any questions on the course please contact him directly.

**Dr. Ynte Schukken** ([yschukken@cornell.edu](mailto:yschukken@cornell.edu)) is a Professor of Epidemiology and Herd Health in the Department of Population Medicine and Diagnostic Sciences. Dr. Schukken received his DVM from the University of Utrecht in 1985, his M.Sc. from Cornell University in 1987, and his PhD in 1990 from the University of Utrecht. He has published widely in the field of veterinary epidemiology and herd health in dairy cattle. Dr. Schukken’s research interests include 1) udder health, food safety and milk quality in well managed dairy herds 2) understanding population dynamics of infectious diseases in animal populations, and 3) application of epidemiological, statistical and mathematical methods to animal disease research.

**Dr. Zhao Lu** ([zhaolu@cornell.edu](mailto:zhaolu@cornell.edu)) is a research associate at the Department of Population Medicine and Diagnostic Sciences, Cornell University. He received his PhD in physics from Kent State University. His research interests include the development and application of mathematical and epidemiological approaches to study dynamics and control of infectious diseases in animal and human populations. His research aims to understand the transmission dynamics and persistence of pathogens in host populations and to quantify the effect of control strategies. His current research projects include: (1) modeling the transmission dynamics of *Mycobacterium avium subsp. paratuberculosis* and evaluating the effectiveness of MAP control programs in dairy cattle, (2) Salmonella strain competition in a dairy farm.

**Dr. Rebecca Mitchell** ([rmm37@cornell.edu](mailto:rmm37@cornell.edu)) is a post-doctoral researcher at the Department of Population Medicine and Diagnostic Sciences, Cornell University. She received her DVM and PhD in Comparative Biomedical Sciences from Cornell University. Her research interests include transmission dynamics of infectious agents, and the effect of host and pathogen heterogeneity. Her post-doctoral research focuses on the effect of multi-strain infections of *Mycobacterium avium subsp. paratuberculosis* in dairy herds.