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## OHWS

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### ONE HEALTH WORKSHOP SERIES

### David R. C. Bailey

Dr. Bailey obtained his Ph.D. in Genetics and Animal Breeding at the University of Alberta in 1985. He began his career with Agriculture and Agri-Food Canada as a research scientist in Lethbridge, Alberta and was later appointed to management postings as Research Centre Director in Charlottetown P.E.I. and Lacombe, Alberta before his appointment as Director General in 2003. He has published more than 60 peer-reviewed manuscripts and has received several awards for excellence in research and transferring research into commercialization, including the CSAS's Young Scientist Award and NRC-IRAP's Federal Partners in Technology Transfer. His leadership profile also includes service on a number of advisory boards and committees such as Livestock Gentec (University of Alberta), Manning Innovation Awards Southern Chapter (AB), PrioNet Canada (founding member), and Alberta Prion Research Institute Management Board (founding member). David has also served as an adjunct professor at Texas A&M University, and the University of Calgary (current). David joined Genome Alberta as the President and CEO in April 2006. In 15 years he has built the organization into a vibrant and effective team that has partnered with key Alberta sectors to help deliver genomic solutions to real challenges.

### Kathy McCoy

Professor Kathy McCoy obtained her PhD in Immunology from the Malaghan Institute of Medical Research, Otago University, Wellington, New Zealand. She performed her postdoctoral studies and was a junior group leader at the Institute of Experimental Immunology in Zürich, Switzerland. In 2006 she joined McMaster University as an Assistant Professor where she held a Canada Research Chair in Mucosal Immunology. From 2010 – 2016 Kathy McCoy was an Assistant Professor in Mucosal Immunology in the Department of Clinical Research, University of Bern in Switzerland. In Sept. 2016 she returned to Canada and is now a Professor in the Cumming School of Medicine, University of Calgary where she continues her research on host-microbial interactions with a focus on early life.



## Tim McAllister

Tim McAllister obtained his M.Sc. in Animal Biochemistry at the University of Alberta and his Ph. D. in rumen microbiology and nutrition from the University of Guelph in 1991. After appointments in technical and biologist positions he was promoted to a Principal Research Scientist where he is presently in charge of a diverse research team studying various aspects of microbial ecology and antimicrobial resistance as they relate to ruminant production. He has conducted numerous studies examining the role of rumen microbiome in feed digestion, methane emissions, feed digestion and digestive disease. Dr. McAllister has published extensively in a broad number of areas related to beef cattle production with over 800 peer-reviewed publications. He holds adjunct professor appointments at several Canadian and international universities and has received numerous awards from both the American and Canadian Societies of Animal Science. He is most recently the recipient of the Queen Elizabeth II Diamond Jubilee Medal, Public Service Award of Excellence for Scientific Contribution to Canada, the H. R. MacMillan Laureate in Agriculture and the Canadian Beef Industry Award for outstanding research and innovation. Tim spends his free time bike riding with his wife Kim and his son Zack and daughter Amy in the Rockies and elsewhere.

## Braedon McDonald

Dr. Braedon McDonald is an Assistant Professor in the Department of Critical Care Medicine at the University of Calgary's Cumming School of Medicine, and a clinician-scientist with the Snyder Institute for Chronic Diseases and International Microbiome Centre. Dr. McDonald leads a translational and basic science research program on microbiome-immune interactions in infectious diseases and critical illness.

## Anita Kozyrskyj

Anita Kozyrskyj is Principal Investigator of SyMBIOTA (Synergy in Microbiota), one of 7 CIHR funded Canadian human microbiome team grants, which is studying the impact of maternal and infant antibiotic use, birth mode and breastfeeding on the composition of the intestinal microbiota in 3,500 infants enrolled in the Canadian Healthy Infant Longitudinal Development (CHILD, PI: Malcolm Sears) cohort at 4 sites across Canada. Co-lead by James Scott, the team will determine whether changes in infant gut microbiota are associated with the development of overweight, allergy and asthma in children. Study objectives will be achieved through the linkage of detailed data on antibiotic use from prescription databases and birth records to microbiota profiles. Preliminary data on 24 infants was published in February 2013 (<http://www.ncbi.nlm.nih.gov/pubmed/23401405>). The team are now evaluating microbiota profiles of over 200 infants at the Winnipeg, Vancouver and Edmonton CHILD sites.



## Tom Louie

Dr. Tom Louie is Clinical Professor of Medicine at the Cumming School of Medicine, an infectious diseases physician who is conducting clinical trials on the treatment and prevention of recurrent C.difficile infection, a model of microbiome perturbation. A current status, challenges and some results of recent trials is presented.

## Ehsan Khafipour

Dr. Ehsan Khafipour is Director of Microbiome Research and Technical Services at Diamond V/Cargill Health Technologies. He is involved in microbiome research in different species of food producing animals, companion animals and humans. His activities include research in support of existing products and new product development. He has published close to 100 peer-reviewed papers and book chapters

## François Eudes

Dr. François Eudes joined Agriculture and Agri-Food Canada (AAFC) in December 2015 as the Director Research, Development and Technology of the Science and Technology (S&T) Branch, in Alberta. He leads a large group of professional staff in Lethbridge, Calgary, Lacombe, Edmonton and Beaverlodge and manages the resources associated with their science programs in seven sector strategies. Dr. François Eudes is AAFC's lead for the Forage and Beef Sector Strategy, and the science lead for five files, honey bee, antimicrobial resistance and antimicrobial use, Gene editing, bioinformatics and Big Data and most recently microbiome. He represents AAFC on Steering Committees and Management Committees with academia and industry stakeholders in Alberta. Dr. François Eudes joined the federal government as a scientist with AAFC in 2000. His work focused on developing enabling technologies for cereal crops, such as cell culture, DNA and protein delivery for engineering and editing plant genome. Dr. François Eudes completed a degree in Agricultural Engineering in Nancy, France. He then continued with his Doctoral degrees in Plant Biology at Université Laval, Québec, Canada. Before joining the Government of Canada, he worked for two years as a post-doctoral fellow at AAFC-Lethbridge.