

Dr. Joe McFadden, Cornell University



Dr. Joseph McFadden is an Assistant Professor and Northeast Agribusiness and Feed Alliance Partners Sesquicentennial Fellow in Dairy Cattle Biology at Cornell University. Dr. McFadden received a B.S. degree from Cornell University in 2003. He then completed an M.S. at University of Illinois and obtained a Ph.D. degree in Dairy Science from Virginia Tech. Following his Ph.D. training, Dr. McFadden spent time as a postdoctoral fellow in the Department of Neuroscience and the Center for Metabolism and Obesity Research at Johns Hopkins University School of Medicine and on as faculty at West Virginia University as an assistant professor of biochemistry. Dr. McFadden's current work at Cornell is focused on developing novel nutritional and pharmacological technologies to modify insulin sensitivity in dairy cattle, and demonstrate that ceramide accrual represents a conserved adaptation to support nutrient partitioning and lactation across species. Moreover, he is expanding his interests to use lipidomic as a means to characterize the efficacy of methyl donor and fatty acid supplementation to mitigate fatty liver disease in transition cows and define gut-host interactions that represent poor heat stress resilience in heifer calves and lactating cows.