Robert Britton, PhD
Professor
Molecular Virology and Microbiology
Microbiome, Nutrients and Clostridiodes Difficile

Dr. Robert Britton is a Professor in the Department of Molecular Virology and Microbiology, a Member of the Alkek Center for Metagenomics and Microbiome Research and the Director of the Microbial Cultivation Center at Baylor College of Medicine. He currently leads the Therapeutic Microbiology laboratory that is focused on the use of microbes to prevent and treat human disease. Currently funded research projects in the Britton laboratory range from how intestinal microbial communities resist invasion by the diarrheal pathogen C. difficile to the development of bacterial biosensors for the detection and treatment of intestinal inflammation. His laboratory has made several advances in the development of genetic and microbial growth platforms to aid in the understanding of microbes that promote health and disease. These include the development of precision genome engineering technologies for lactic acid bacteria and the development of human fecal minibioreactor arrays to study the function of microbial communities in a high-throughput manner. Dr. Britton received a B.S. in Biology from the University of Nebraska-Lincoln and a Ph.D. in Cell and Molecular Biology from Baylor College of Medicine. After performing postdoctoral training at MIT he started his own laboratory at Michigan State University in 2003. After rising to the rank of Professor in 2014 he moved to his current position at Baylor College of Medicine.