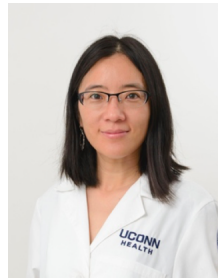




Channing Microbiome Seminar

November 8 (Thursday), 2018, 4:30pm @ 4th-floor conference room



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The Gut Microbiome in Cross-organ Interaction

Abstract. The gut microbiome and microbial metabolites are important mediators of cross-organ communication including gut-brain and gut-lung interactions. My group uses a combination of bioinformatics and animal models to investigate these interactions in the hope of translating our findings into clinics. The first part of the talk will discuss how the gut microbiome contributes to intermittent fasting-induced protection of Multiple sclerosis (MS), an autoimmune disease that affects the central nervous system. The second part will focus on how microbes interact with each other and the host during acute upper airway viral infection, and provide novel evidence of an orchestrated microbiome response to viral infections at two common mucosal sites (airway and gut) in human.

Bio. Dr. Yanjiao Zhou is an Assistant Professor at UConn Health and an adjunct faculty at The Jackson Laboratory. She was a visiting student at The Rockefeller University and graduated from Tianjin Medical University in China, majoring in microbiology and immunology. She received her training in computational biology during her postdoctoral work at The Genome Centre at The Washington University School of Medicine, where she was the lead analyst for the first phase of The Human Microbiome Project. She also served as the lead analyst for the second phase of the Human Microbiome Project, conducted at The Jackson Laboratory. She published nearly 40 microbiome related papers. Her lab is interested in developing microbiome-based diagnostics and therapeutics using both experimental and computational approaches.

Hosted by Yang-Yu Liu