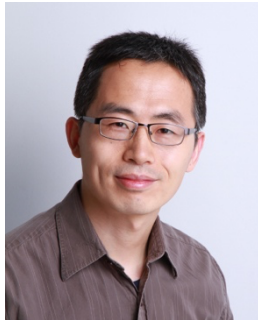




Channing Microbiome Seminar

April 8th (Friday), 9AM (EDT)

Zoom: <https://us02web.zoom.us/j/81070959105?pwd=RFJNd3dSZmR6dXJZnJiYVZzQ3NEQT09>
Meeting ID: 810 7095 9105
Passcode: 984617



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Using metabolomics and multi-omics for functional insights into microbiome

Abstract: Small compounds or metabolites are key mediators of host-microbiome interactions. Global untargeted metabolomics based on high-resolution mass spectrometry provides rich information on the host-microbiome co-metabolism. However, proper data processing, analysis and interpretation within the context of other omics are currently the bottleneck for microbiome researchers. In this talk, I will share our research to date leveraging computational (bioinformatics tools), analytical (LC-MS metabolomics), and experimental (*C. elegans*-based models) approaches to help understand microbiome functions and interactions with their host.

Bio: *Dr. Xia is an Associate Professor and Canada Research Chair (bioinformatics and big data analytics) at McGill University, Quebec Canada. His research explores innovative and practical ways to address the current challenges in big data analytics arising from biomedical and environmental research, focusing on metabolomics, microbiomics and multi-omics integration. His group is actively developing new-generation computational framework integrating cloud computing, machine learning and visual analytics to enable intuitive and high-throughput data analysis. Many of the tools are broadly used by researchers worldwide. To date, Dr. Xia has authored >80 journal publications and 8 book chapters. He is the 2019 McGill Principal's Prize for Outstanding Emerging Researchers. Since 2019, he has been ranked as Global Highly Cited Researchers (citations: >26,000, H-index: 45) by the Web of Science.*