

CBC Virtual Seminar Series



Associate Professor Jiaoyang Jiang
University of Wisconsin-Madison, US

Specificity, Function and Regulation of Protein O-GlcNAc Modification

The N-acetylglucosamine (O-GlcNAc) modification is an essential glycosylation that has been identified on over 1,000 proteins. It dynamically modulates protein functions and regulates numerous biological processes in physiology and disease. O-GlcNAc modification is added by O-GlcNAc transferase (OGT) and removed by O-GlcNAcase (OGA). Despite recent progress, challenges remain to decipher the biological roles of O-GlcNAc modification and its regulation by OGT and OGA on a broad range of substrates that lack an apparent sequence motif. In this talk, I will present our recently developed structural biology and chemical biology strategies to start revealing the specificity, function and regulation of O-GlcNAc modification.

Biography

Dr. Jiaoyang Jiang is an Associate Professor in the Pharmaceutical Sciences Division of the University of Wisconsin-Madison. She received her B.S. in Chemistry from University of Science and Technology of China (USTC) in 2004 and her Ph.D. degree in Chemistry from Brown University in 2009 (Advisor: Prof. David Cane). She performed postdoctoral study in Prof. Suzanne Walker's laboratory at Harvard Medical School before joining the faculty (appointment: Assistant Professor) in the School of Pharmacy at UW-Madison in August 2013. She was promoted to Associate Professor with tenure in 2019. Her research interests span the gap between chemistry and biology. Her group is currently developing innovative strategies and tools to characterize the substrate recognition and functional regulation of O-GlcNAc cycling enzymes (OGT and OGA) in health and disease.

Date: 14th August 2020, Friday
Time: 9.00am to 10.30am
Venue: Zoom Platform
Host: Assistant Professor Qiao Yuan

For Zoom registration:

