

# CBC Virtual Seminar Series



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## New-to-nature Chemical Tools for Studying Glycans and its Transport

Glycosylation plays pivotal roles in various cellular processes. Employing new-to-nature chemistry to decipher biological functions of glycan, as well as to fulfil glycan-based therapeutic need, remains a major challenge. In this virtual seminar, we present the development of a liposome-assisted bioorthogonal reporter strategy (LABOR) to achieve selective visualization and detection of eukaryotic glycans both *in vitro* and *in vivo*. A brief report on how cutting-edge chemical tools are used to study the transport process of lipopolysaccharide (LPS), a prokaryotic cell surface glycan, will also be discussed.

### Biography

Dr. Ran Xie completed his undergraduate degree in Chemistry from Shanghai JiaoTong University in 2010, then obtained his Ph.D. in Chemical Biology from Peking University in 2015, where his research focused on chemical glycobiology. After completing postdoctoral work at Harvard University in the field of microbiology, he joined Nanjing University faculty in December 2019.

**Date:** 5<sup>th</sup> June 2020, Friday  
**Time:** 9.30 am to 11.00 am  
**Venue:** Zoom Platform  
**Host:** Assistant Professor Qiao Yuan

**For Zoom registration:**

