

GaLSIC Guest Seminar

“Glycans in Context: Spatial, Structural, and Translational Perspectives”

Dr Arun Everest-Dass

Research Leader, Head of the GlycoMatrix Research Group,
Institute for Biomedicine and Glycomics, Griffith University

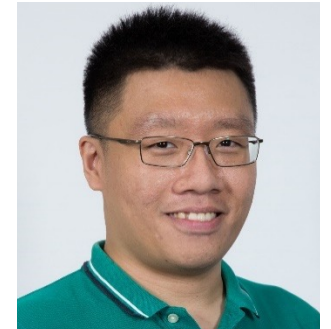
Dr Edward Moh

Senior Research Fellow
Macquarie University, ARC Centre of Excellence in Synthetic Biology

Date: Wednesday, October 7

Time: 3:00 PM – 4:30 PM

Room: E207



Dr Arun Everest-Dass

Research Leader, Head of the GlycoMatrix Research Group, Institute for Biomedicine and Glycomics, Griffith University

Research Bio

- Dr Arun Everest-Dass is a Research Leader at the Institute for Biomedicine and Glycomics (IBG), Griffith University, Australia. His research program sits at the intersection of analytical chemistry, glycobiology, and translational medicine, leveraging cutting-edge mass spectrometry and spatial imaging technologies to decode how glycosylation shapes human health and disease.
- Dr Everest-Dass has established a distinctive research portfolio centered on mass spectrometry-based glycomics and glycoproteomics, with particular expertise in MALDI imaging mass spectrometry (MALDI-MSI) for spatial glycan mapping. His laboratory operates within the ACRF International Centre for Cancer Glycomics, where he leads a suite of advanced instrumentation. His research spans multiple disease contexts.
- In oncology, his group investigates glycan biomarkers and tumour microenvironment glycosylation in melanoma, ovarian cancer, prostate cancer, and Ewing sarcoma, with a current focus on understanding glycomic drivers of metastasis. In infectious disease and vaccinology, he has contributed to understanding glycosylation of viral surface proteins, including work on human parainfluenza virus type 3 (HPIV-3), respiratory syncytial virus (RSV), and SARS-CoV-2, as well as characterising antigen glycosylation in mRNA vaccine candidates.
- His group is also advancing glycoinformatics in the glycan imaging space through development of open-source analysis tools.

Dr Edward Moh
Senior Research Fellow
Macquarie University, ARC Centre of Excellence in Synthetic Biology

Research Bio

- Dr Edward Moh is an analytical biochemist specialised in mass spectrometry and glycobiology research. He completed his PhD in 2018, working with Prof. Nicolle Packer at Macquarie University and has developed methods to analyse and engineer glycoproteins.
- Post-PhD, he has been a Research Fellow at the ARC Centre of Excellence for NanoScale BioPhotonics, where he has been involved in several multidisciplinary projects ranging from developing gold nanoparticle probes to glycan biomarker discovery in chronic pain.
- He is currently a Senior Research Fellow at the ARC Centre of Excellence in Synthetic Biology, and has recently developed a new multi-glycomics workflow named SSSMuG (Same Sample Sequential Multi-Glycomics) where multiple types of glycoconjugates are characterised to obtain an in-depth, holistic view of the glycome