

**School of Biomedical Sciences
Department of Microbiology and Immunology
PhD Completion Seminar**

**“Optimal Vaccination Strategies to Address Antigenic
Diversity in Influenza Viruses”**



Yee-Chen Liu

Kent/Juno/Wheatley Labs

Influenza viruses pose a public health threat through seasonal epidemics and extensive zoonotic diversity with pandemic potential, necessitating broadly protective vaccines. In this study, using human monoclonal antibodies, we discovered broadly cross-protective epitopes spanning different IBV HA subdomains with balanced breadth and neutralisation potency. To tackle the diversity of zoonotic H5 IAV, we tested vaccination strategies in mice. An adjuvanted admix of soluble H5 HAs and nanoparticle HA display enhanced neutralisation capacity against H5 variants, while prior seasonal influenza vaccination further improved neutralisation breadth. Collectively, these findings inform antigen design and immunisation strategies for broadly reactive influenza vaccines.

Wednesday 29th July 2026 at 1:00pm

*In-person attendance: Auditorium, Doherty Institute
or join us via Zoom Webinar: 899 2273 2105 Password: 086953*

Followed by a Q&A at the end of presentation. Celebrations will be in the Tearoom, Level 5 at 4:30pm



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