

SigN SEMINAR

Hosted by Dr. Zhang Biyan



Dr. Low Jun Siong

Postdoctoral Fellow

Novartis Young Investigator

Institute for Research in Biomedicine, Switzerland

Clonal analysis of T and B cell responses to SARS-CoV-2

T and B cells are key players in host defense and in immunological memory. In the two studies presented, we used clonal approaches to probe the antigen-specific repertoire of T and B cells in SARS-CoV-2 immune individuals against coronavirus spike glycoproteins. We identified a population-level immunodominant region targeted by polyfunctional T cell responses and characterized a novel class of antibodies that binds to the cryptic fusion peptide region and display unprecedented neutralizing breadth against human and animal coronaviruses across multiple genera. Altogether, these findings revealed principles of immunodominance and cross-reactivity, informing the design of next generation vaccines that can elicit a robust and universal T and B cell response, and that can confer broad protection.



2 September 2022 (Friday)

2 PM – 3 PM (Singapore Time)

SigN Seminar Room, Immunos, Level 4



8A Biomedical Grove, Immunos, #04-06, Singapore 138648

Seminar is open for all to attend.

Registration is not required.

