



Infectious
Diseases Labs

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Dr Kei Sato

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Tuesday 25th Nov 2025

10:00 AM to 11:00 AM (SGT)

Venue: Codon A & B, Matrix Level 5

Evolution of sarbecoviruses including SARS-CoV-2: beyond G2P-Japan

To elucidate the virological characteristics of newly emerging SARS-CoV-2 variants in real-time, I launched a consortium, "The Genotype to Phenotype Japan (G2P-Japan)". With the G2P-Japan consortium colleagues, we have revealed the virological characteristics of SARS-CoV-2 variants. In this talk, I briefly introduce the scientific activity of G2P-Japan consortium. Moreover, I would like to discuss the possibility for international collaboration, particularly Southeast Asian countries, to combat the outbreaks and pandemic that will happen in the future.

Dr. Kei Sato is a Professor at The Institute of Medical Science, The University of Tokyo, Japan. Dr. Sato is pioneering a new field of virology that he calls 'systems virology', which encompasses multiple aspects of viruses, such as epidemiology, pathogenicity, replication dynamics, and viral structures, and applies this interdisciplinary approach to HIV and SARS-CoV-2. To combat the COVID-19 pandemic, Dr. Sato launched a consortium, 'The Genotype to Phenotype Japan (G2P-Japan)' which is organized mainly by young virologists, in January 2021. G2P-Japan elucidated the virological characteristics of newly emerging SARS-CoV-2 variants such as the Delta variant (Saito et al., *Nature*, 2022) and the Omicron BA.1 (Suzuki et al., *Nature*, 2022; Meng et al., *Nature*, 2022), BA.2 (Yamasoba et al., *Cell*, 2022), and BA.5 (Kimura et al., *Cell*, 2022) variants in real-time. Recently the Dr. Sato's scope has changed from SARS-CoV-2 to the other coronaviruses to prepare for the next pandemic, and Dr. Sato has started collaborations in a series of Southeast Asian countries. In June 2025, Dr. Sato got a visiting professor appointment in EID Programme, Duke-NUS Medical School, Singapore.

Hosted by: Prof Lisa Ng

Seminar is open to all. No registration required.

Questions? Contact us at seminars@idlabs.a-star.edu.sg

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