



Speaker Profile

Speaker **Henrik Salje**

Designation Professor
Pathogen Dynamics Group, Department of Genetics, University of Cambridge, UK.

Title Maximising insights from serological data

Abstract Antibody measures have the potential to capture both an individual's history of infection and future infection and disease risk. At a population scale, they can be used to measure antigenic evolution. However, interpreting antibody titres can be complex due to diversity and dynamic nature of immune responses. In this talk, Prof. Henrik will present results from cross-sectional and longitudinal studies that have tracked arbovirus titres, and discuss some of the different insights we can make from them.

Biography Dr. Salje is a Professor in the Dept. of Genetics at the University of Cambridge where he heads the Pathogen Dynamics Group. Dr. Salje established the Pathogen Dynamics Group in 2020. He and his team were previously at Institut Pasteur in Paris, France. His research combines the development of analytical approaches with empirical research to better understand the transmission dynamics of different infectious diseases with the ultimate goal of helping guide control efforts. In particular, this involves working with genetic, antigenic, and epidemiological data alongside information on how populations behave, interact with their environment. He has an undergraduate degree in Biochemistry from Oxford University, a Master's degree in Biostatistics from Johns Hopkins Bloomberg School of Public Health, and a PhD in Epidemiology, also from Johns Hopkins.

Research interests

- Mapping infection risks, Antibody dynamics, Antigenic & Genetic Evolution of Dengue (AGED), Arbovirology.
- Covid-19, Integrating spatial & genetic data, Pathogen emergence & Spatial methods to study pathogen spread.

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