



Infectious
Diseases Labs

A*STAR IDL



Prof Peter Nilsson

Division of Affinity Proteomics
Department of Protein Science, KTH, Sweden



Thursday 3rd April 2025

11:00 AM to 12:00 PM (SGT)

Venue: Codon A & B, Matrix Level 5

Multiplex protein and antibody profiling within infectious diseases

The research is devoted to affinity proteomics and enabled through various in-house developed multiplex bead-based and planar protein array formats for protein and antibody profiling. Highly multiplex and high-throughput protein, autoantibody and serology profiling has mainly been applied within autoimmune, neurodegenerative and infectious diseases

During the early phase of the pandemic, we rapidly developed a highly specific and sensitive high-throughput multiplex bead-based serological assay for SARS-CoV-2 that has been used to analyse over 260,000 samples. We are now extending the assay to provide a platform for multi-disease serology including a wide range of antigens representing various respiratory and infectious diseases.

Combinations of highly multiplex protein and autoantibody profiling and multi-disease serology in association to studies of infectious diseases and vaccinations are now being emphasized within several international collaborations, with a focus on mosquito spread diseases, currently mainly affecting tropical and subtropical areas, such as dengue, zika, chikungunya, and malaria

Prof Peter Nilsson has been a Professor in Proteomics since 2011 at the Dept Protein Science at SciLifeLab and KTH Royal Institute of Technology, Stockholm, Sweden. He is head of Protein Array Technologies within Human Protein Atlas since 2003, head of Div Affinity Proteomics and Platform Scientific Director in the Affinity Proteomics platform at SciLifeLab. He has co-authored more than 250 publications

Hosted by: Prof Laurent Renia

Seminar is open to all. No registration required.

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

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