



Infectious
Diseases Labs

A*STAR IDL

Prof Georgia D. Tomaras



A. Geller Distinguished Professor for Research in Immunology
Professor of Surgery, Professor of Integrative Immunobiology
Professor of Molecular Genetics and Microbiology
Chief, Division of Surgical Sciences, Department of Surgery



Monday 3rd August 2026

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

Venue: Criston A & B, Matrix Level 5

Immunogenicity endpoints for human clinical trials: systemic and mucosal antibodies

Immunogenicity endpoints and Correlates of protection (CoP) studies are useful in rational design of vaccines and biologics for improved efficacy and to bridge effective interventions across populations. Identifying absolute CoP is a challenging task due to the complexity of epitopes and immunodominant regions; history of prior infections /exposures; and multiple effector functions of the immune system and how they work together. Duke University Center for Human Systems immunology brings together research labs in a Good Clinical Laboratory Practice environment with computational immunologists to assess immunogenicity endpoints for human clinical trials. Experience and current results from assessing immunologic endpoints of systemic and mucosal antibodies for early phase clinical trials and Phase 2b/3 efficacy trials in humans will be discussed for HIV-1, Tuberculosis, SARS-COV-2 and Influenza.

Dr. Tomaras is the Director of the Duke Center for Human Systems Immunology, Immunological Sciences and Director of the Duke Center for AIDS Research. She is the Director of Laboratory Science for the international HIV Vaccine Trials Network that is focused on discovery medicine and efficacy trials to prevent infection. Dr. Tomaras' antibody dynamics laboratory is comprised of a multi-disciplinary team of scientists that effectively bridge basic and translational science through qualification and validation of immune methods to ultimately find ways to maximize immune potential in protection against disease. She has authored >420 publications. Her discoveries include the role of IgA and IgG3 in mediating differential effects on protective HIV-1 vaccine immunity. Dr. Tomaras was a recipient of the Ruth and A. Morris Williams Faculty Research Prize and the Career Mentoring Award in Basic Science at Duke. Dr. Tomaras is a Fellow of the American Academy of Microbiology and the American Association for the Advancement of Science.

Hosted by: Dr Matthew Tay

Seminar is open to all. No registration required.

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

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