



ISTITUTO PASTEUR ITALIA SEMINAR

Lunedì 24 Giugno 2024, ore 14.00

SSAS, Building D, AULA 201 (2 Piano)

Prof. Hein M. Tun, BVSc, MSc, PhD

JC School of Public Health and Primary Care

Li Ka Shing Institute of Health Sciences

Faculty of Medicine

The Chinese University of Hong Kong

Associate Director, Microbiota I-Center (MagIC)

The immunological interplay of gut microbiome for viral infections and vaccination

The global recurrent threat of respiratory virus pandemics highlights the essential needs of developing alternative prophylaxis and therapeutics of respiratory virus infection. Host and environmental factors drive proper establishment of the gut microbiome and immune system especially during early life, which in turn is related to consecutive susceptibility to respiratory virus infection. Our recent studies demonstrated gut microbiota as the foundation to orchestrate immune response to COVID-19 vaccines and the persistence of those antibodies in the body. In parallel, our mechanistic studies also illustrated that early-life gut dysbiosis extensively impacted the development of innate immunity and the pathogenesis of influenza A and SARS-CoV-2 infection. Moreover, certain keystone gut bacteria species have the potentials of to modulate both innate and adaptive immunity and enhance antiviral responses.



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FONDAZIONE CENCI BOLOGNETTI

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