



Infectious  
Diseases Labs

ID LABS

## Dr Roger Le Grand

Center for Immunology of Viral, Auto-immune,  
Hematological and Bacterial diseases  
Université Paris-Saclay Inserm, CEA, France



**Wednesday, 13th Sept 2023**  
4:00pm to 5:00pm (SGT)

**Join Zoom Meeting [here](#)**  
Meeting ID: 967 9274 7820  
Passcode: 245793



## Vaccines development: from mechanisms of action to the design of new immunization strategies

I will focus my talk on the work of our research department on the understanding early events following vaccine injection and the consequences on the type and durability of induced adaptive immune response and efficacy. I will discuss impact of route of injection, vectors, adjuvants on innate response and how this can shape adaptive response. I will also review some of the innovations in antigen design.

**Dr Roger Le Grand** research is to study host response to infections with the aim to understand basic mechanisms of immunology and develop new prevention strategies against human infectious diseases. Focus a large part of his work on translational programs linking preclinical and clinical development on vaccines, immunotherapies and anti-microbial therapy. This also includes advanced technologies, and *in vivo* imaging in particular, with a continuing effort to translate findings in experimental models to the clinical practice. Part of my career was dedicated to the understanding of HIV transmission, pathogenesis and viral reservoirs in order to improve treatment strategies and inform the design of HIV vaccines. Most recently, had the opportunity to extent his expertise to diverse human infections, including tuberculosis, influenza, pertussis, arboviruses or chlamydia infections and the group coordinating have significantly contributed to the research on SARS-CoV-2 and preclinical COVID-19 vaccines and treatment developments in particular.

**Hosted by: Laurent Renia**

Questions? Contact us at [seminars@idlabs.a-star.edu.sg](mailto:seminars@idlabs.a-star.edu.sg)

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