



Paris Symposium on Viral Dynamics

16 September 2022 - Paris, France

08:30-09:00	Registration, welcome and opening
09:00-09:10	Mélanie Prague & Jérémie Guedj Few words of introduction
Session 1: Modeling to support vaccine development Chair: Alan Perelson	
09:10-09:40	Rodolphe Thiébaud, Université Bordeaux Modelling B cell response to vaccine. Exemple of Ad26/MVA against Ebola virus disease
09:40-10:00	Nicolas Ratto, Nova Discovery A multi-strain model of immunization against IAV viruses after infection or vaccination
10:10-10:30	Marie Alexandre, INRIA Modeling viral and humoral dynamics after vaccination against SARS-CoV-2 in NHPs
10:30-11:00	<i>Coffee break</i>
Session 2: Models of SARS-CoV-2 infection and treatment Chair: Mélanie Prague	
11:00-11:30	Alan Perelson, Los Alamos National Laboratory Modeling SARS-CoV-2 Drug Resistance and Paxlovid Viral Rebound
11:30-11:50	Stanca Ciupe, Virginia Tech Modeling within-host and aerosol dynamics of SARS-CoV-2
11:50-12:10	Aurélien Marc, INSERM Using NHPs to characterize the impact of variants of concern on viral dynamics
12:10-12:30	Joseph Standing, University College London Comparative assessment of SARS-CoV-2 viral dynamic models to inform pharmacodynamic model development in early treatment trials
12:30-13:30	<i>Lunch</i>
Session 3: Multiscale models Chair: Samuel Alizon	
13:30-14:00	Lulla Opatowski, Institut Pasteur What can we expect to learn from multiscale models?
14:00-14:20	Hind Zaaraoui, INSERM Impact of antiviral treatment on household transmission
14:20-14:40	Alexander Kulesza, Nova Discovery Modeling the disruption of respiratory disease clinical trials by non-pharmaceutical COVID-19 interventions
14:40-15:00	<i>Light coffee break</i>
Session 4: Chronic infections. Chair: Jérémie Guedj	
15:00-15:30	Baptiste Elie, CNRS A cohort study to describe and model HPV kinetics
15:30-15:50	Laura Liao, Merck Mechanistic Immune-Viral Dynamics Modeling Platform for HIV Cure Drug Development
15:50-16:10	Selma El Messaoudi, INSERM Dynamics of HBV markers during long-term treatment with lamivudine and peg-IFN
16:10-16:25	<i>Break</i>
Session 5: Acute infections Chair: Lulla Opatowski	
16:25-16:25	Withdraw
16:25-16:45	Samuel Alizon, CNRS Within-Host Stochastic Emergence Dynamics of Immune-Escape Mutants
16:45-17:05	Joshua Weitz, Georgia Tech Modeling synergistic dynamics in phage therapy
5min Wrap-up	

