

Quantitative viral dynamics

Master 2 IMaLiS, Ecole Normale Supérieure, 2021-2022

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Schedule: 9am to 12 am, 14pm to 17pm

Salle : 306 (ex-511)

Monday, November 29th

9-12

Joshua Weitz, eco-evolutionary principles of phage bacteria dynamics

14-17

Joshua Weitz, digital laboratory and primer on predator-prey dynamics

Tuesday, November 30th

9-12

Joshua Weitz, eco-evolutionary principles of latency and imperfect killing by viruses

(10 :45am Marianne De Paepe, quantitative analysis of within-host viral traits)

14-17

Joshua Weitz, digital laboratory on invasion dynamics and viral strategies

Wednesday, December 1st

9-12

François Blanquart, modelling within-host dynamics of human viruses.

(11am: Jérémie Guedj, modelling within-host dynamics of SARS-CoV-2)

14-17

François Blanquart, digital laboratory on modelling within-host dynamics. Inferring the key parameters of HIV infection from within-host longitudinal viral load data.

Thursday, December 2nd

9-12

Joshua Weitz, modelling epidemiological dynamics – from principles to SARS-CoV-2

14-17

Free

Friday, December 3rd

9-12

François Blanquart, phylodynamics of infectious diseases: inferring the origin and spread of viruses from sequence data. Inferring phylogenies and dating past events.

14-17

François Blanquart, phylodynamics of infectious diseases: inferring the origin and spread of viruses from sequence data. Inferring past population size and geographical spread at different scales.