

SATELLITE MEETING

VIRAL EVOLUTION: LINKING GENETICS TO EPIDEMICS

FRIDAY | FEBRUARY 24

Physics Institute, Lecture Hall
Zülpicher Str. 77

15:00–18:45 **Chair: Thomas Lengauer**

Sergey Kryazhimskiy, Directionality and epistasis: How natural selection shapes the influenza A genome

Coffee Break (30 min)

Michael Lässig, Influenza A: Genomics of a red queen race

Ville Mustonen, Distinguishing driver and passenger mutations in an evolutionary history categorized by interference

Break (20 min)

Trevor Bedford, Canalization of the evolutionary trajectory of the human influenza virus

Julia Gog, Age-structured model of influenza evolution

SATURDAY | FEBRUARY 25

Biozentrum, Lecture Hall
Zülpicher Str.47b

09:00–13:00 **Chair: Michael Lässig**

Oliver Pybus, Unifying the phylogeography and mathematical epidemiology of emerging epidemics

Alice McHardy, Phylodynamic techniques for the study of evolutionary dynamics of influenza A viruses

Annemie Vandamme, Current controversies on the origin and adaptation of epidemic HIVs

Coffee Break (30 min)

Richard Neher, The recombination rate of HIV and the role of recombination in chronic infection

Nico Pfeifer, Modeling HIV evolution in treatment-naïve patients

Nico Beerenwinkel, Estimating the structure of viral quasispecies from deep sequencing data

Organizers: **Michael Lässig, University of Cologne**
Thomas Lengauer, MPI Saarbrücken