

Virtual Conference Agenda

Start (BST)	Finish (BST)	Presenter Details
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Monday 13 September 2021

13:00 13:10 Welcome

Scientific Programme Committee:

[*George Githinji, KEMRI Wellcome Trust Research Programme, Kenya*](#)

[*Tommy Lam, The University of Hong Kong, Hong Kong*](#)

[*Katrina Lythgoe, University of Oxford, UK*](#)

[*Andrew Rambaut, University of Edinburgh, UK*](#)

[*Emma Thomson, University of Glasgow, UK*](#)

13:10 14:00 Keynote 1

Introduction to the session

[*Chair: Kate Grabowski, Johns Hopkins Bloomberg School of Public Health, USA*](#)

13:10 13:40 An exciting future for infectious disease surveillance in Africa, but only if we want it enough

[*Chikwe Ihekweazu, Nigeria Centre for Disease Control, Nigeria*](#)

13:40 14:00 Q&A

Chair: Kate Grabowski, Johns Hopkins Bloomberg School of Public Health, USA

Moderator: Tommy Lam, The University of Hong Kong, Hong Kong

14:00 14:20 Break

14:20 16:10 Session 1: Epidemics and Outbreaks

Introduction to the session

[*Chair: Nuno Faria, Imperial College London, UK*](#)

14:20 14:40 Genomic sequencing in the management of outbreaks in the Democratic Republic of Congo

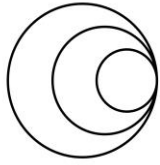
[*Placide Mbala, INRB, Democratic Republic of Congo*](#)

14:40 15:00 Avian influenza phylodynamics - transmission patterns across space and species

[*Samantha Lycett, University of Edinburgh, UK*](#)

15:00 15:20 How can ethics add value to virus genomics research and practice?

[*Stephanie Johnson, Wellcome Centre for Ethics and Humanities, University of Oxford, UK*](#)



- 15:20 15:30 Epidemiological hypothesis testing using a phylogeographic and phylodynamic framework
Simon Dellicour, Université Libre de Bruxelles, Belgium
- 15:30 15:40 Characterizing the countrywide epidemic spread of influenza A(H1N1)pdm09 virus in 2 Kenya between 2009 and 2018
Collins Owuor, Kenya Medical Research Institute, Kenya
- 15:40 16:10 Q&A
Chair: Nuno Faria, Imperial College London, UK
Moderator: George Githinji, KEMRI Wellcome Trust Research Programme, Kenya

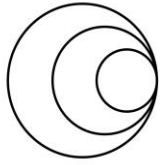
16:10 16:20 Break

16:20 17:10 Poster Session 1: Odd Numbered Posters

- 16:20 16:40 Lightning talks for poster session 1: odd numbered posters
- 16:40 17:10 Poster session 1: odd numbered posters

17:10 19:00 Session 2: Emerging Viral Infections and Zoonoses

- Introduction to the session
Chair: Samantha Lycett, University of Edinburgh, UK
- 17:10 17:30 Genomic and epidemiological insights into the SARS-CoV-2 epidemic in Brazil
[*Nuno Faria, Imperial College London, UK*](#)
- 17:30 17:50 Emergence of coronavirus at the human-animal interface
[*Huachen Zhu, University of Hong Kong, Hong Kong*](#)
- 17:50 18:10 How host genetics dictates viral spillover
[*Sara Sawyer, University of Colorado Boulder, USA*](#)
- 18:10 18:20 Phylogenetic evidence for and implications of latency in long-term EBOV evolution
John McCrone, University of Edinburgh, UK
- 18:20 18:30 Exploring the natural origins of SARS-CoV-2 in the light of recombination
Spyros Lytras, MRC - University of Glasgow Centre for Virus Research, UK
- 18:30 19:00 Q&A
Chair: Samantha Lycett, University of Edinburgh, UK
Moderator: Tommy Lam, The University of Hong Kong, Hong Kong



Tuesday 14 September 2021

13:00 14:30 Session 3: Virus Evolution I

Introduction to the session

Chair: Paul Turner, Yale University, USA

13:00 13:20 Interpreting the evolution of SARS-CoV-2

[*Jesse Bloom, Fred Hutch Cancer Research Center, USA*](#)

13:20 13:40 Déjà vu all over again: glycoprotein variants in pandemic viruses

[*Jeremy Luban, University of Massachusetts, USA*](#)

13:40 13:50 Purifying selection determines the short-term time dependency of evolutionary rates in SARS-CoV-2 and pH1N1 influenza

Mahan Ghafari, University of Oxford, UK

13:50 14:00 Novel mammalian HDV-like agents show distinct cellular tropism and infection pathways independent of hepadnaviruses

Gnimah Eva Gnouamozi, University Hospital Heidelberg, Germany

14:00 14:30 Q&A

Chair: Paul Turner, Yale University, USA

Moderator: Lena Wilfert, Ulm University, Germany

14:30 14:40 Break

14:40 15:30 Poster Session 2: Even Numbered Posters

14:40 15:00 Lightning talks for poster session 2: even numbered posters

15:00 15:30 Poster session 2: even numbered posters

15:30 17:20 Session 4: Virus Evolution II

Introduction to the session

Chair: Katrina Lythgoe, University of Oxford, UK

15:30 15:50 Coevolution of phage-bacteria interactions in phage therapy

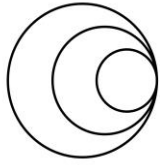
[*Paul Turner, Yale University, USA*](#)

15:50 16:10 Viral fitness determines the magnitude of transcriptomic and epigenomic reprogramming of defense responses in plants

[*Santiago Elena, CSIC, Universitat de València, Spain*](#)

16:10 16:30 Evolving in bee-space: disease emergence in wild and managed bees

[*Lena Wilfert, University of Ulm, Germany*](#)



- 16:30 16:40 Identification of viral transcripts in RNA-seq datasets from bees, wasps, mites and ants
Katy Brown, University of Cambridge, UK
- 16:40 16:50 Discovery of Flaviviridae-derived endogenous viral elements in shrew genomes provide novel insights into ancient Pestivirus evolutionary history
Yiqiao Li, KU Leuven, Belgium
- 16:50 17:20 Q&A
Chair: Katrina Lythgoe, University of Oxford, UK
Moderator: George Githinji, KEMRI Wellcome Trust Research Programme, Kenya

17:20 17:40 Break

17:40 18:30 Special Guest Speaker

Introduction to the session

[*Chair: David Robertson, University of Glasgow, UK*](#)

- 17:40 18:10 Nerd immunity: a journalist's perspective on the pandemic
[*Kai Kupferschmidt, Science Magazine, Germany*](#)

- 18:10 18:30 Q&A
Chair: David Robertson, University of Glasgow, UK
Moderator: Katrina Lythgoe, University of Oxford, UK

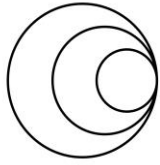
Wednesday 15 September 2021

13:00 14:30 Session 5: Virus-Host Interactions

Introduction to the session

Chair: Katrina Lythgoe, University of Oxford, UK

- 13:00 13:20 Within-host viral evolution and why it matters
[*Judith Breuer, University College London, UK*](#)
- 13:20 13:30 Year-long COVID-19 infection reveals within-host evolution of SARS-CoV-2 in a patient with B cell depletion
Allison Roder, National Institutes of Health, USA
- 13:30 13:40 EBV defective genomes in different cell-types are associated with EBV-related malignancies
Cristina Venturini, Institute of Child Health, UK
- 13:40 13:50 Within-host antigenic selection during acute influenza A infections
Emily Bendall, University of Michigan, USA



13:50 14:00 Characterizing the impact of tissue environment on the within-host diversity and dynamics of influenza A virus
Katherine Johnson, New York University, USA

14:00 14:30 Q&A
Chair: Katrina Lythgoe, University of Oxford, UK
Moderator: Tommy Lam, The University of Hong Kong, Hong Kong

14:30 14:50 Break

14:50 16:20 Session 6: Vaccines and Viral Genomics in Health

Introduction to the session
Chair: Emma Thomson, University of Glasgow, UK

14:50 15:10 Highly durable vaccines for Ebola
[Katie Ewer, University of Oxford, UK](#)

15:10 15:30 Development of self-amplifying RNA vaccines against viral threats
[Robin Shattock, Imperial College London, UK](#)

15:30 15:40 Deconvolving mutational patterns of poliovirus outbreaks reveals its intrinsic fitness landscape
Ahmed Abdul Quadeer, The Hong Kong University of Science and Technology, Hong Kong

15:40 15:50 A hypervirulent strain of HIV-1 circulating in the Netherlands
Chris Wymant, University of Oxford, UK

15:50 16:20 Q&A
Chair: Emma Thomson, University of Glasgow, UK
Moderator: Katrina Lythgoe, University of Oxford, UK

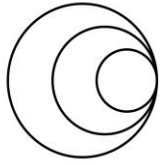
16:20 16:40 Break

16:40 17:30 Keynote 2

Introduction to the session
Chair: Kate Grabowski, Johns Hopkins Bloomberg School of Public Health, USA

16:40 17:10 Zoonotic Retroviruses, Filoviruses and Coronaviruses in Central Africa
[Martine Peeters, IRD, France](#)

17:10 17:30 Q&A
Chair: Kate Grabowski, Johns Hopkins Bloomberg School of Public Health, USA
Moderator: Andrew Rambaut, University of Edinburgh, UK



17:30 17:40 Closing Remarks

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