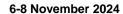


Hybrid Conference Programme

Start (GMT)	Finish (GMT)	Presenter details				
Wedne	Wednesday 6 November 2024					
11:30	12:45	Registration, lunch and networking				
12:30	12:45	Briefing for Keynote 1 & Session 1 speakers, microphone runners, chair, moderator & committee - Auditorium				
12:45	13:00	Welcome				
12:45	12:50	Wellcome Connecting Science: Jane Murphy, Wellcome Connecting Science, UK				
12:50	13:00	Scientific Programme Committee: Kate Grabowski, Johns Hopkins University, USA Christian Happi, Harvard University, USA Nick Loman, University of Birmingham, UK Katrina Lythgoe, University of Oxford, UK				
13:00	13:50	Keynote 1				
		Chair: Nick Loman, University of Birmingham, UK Moderator: Katrina Lythgoe, University of Oxford, UK				
13:00	13:50	Effective global genomic surveillance - what will it take? <u>Meera Chand, Public Health England, UK</u>				
13:50	13:55	Comfort break				
13:55	15:25	Session 1: Vaccines and treatments				
		Chair: David Robertson, University of Glasgow, UK Moderator: Kate Grabowski, Johns Hopkins University, USA				
13:55	14:25	On the trail of SARS-CoV-2 cryptic wastewater lineages <u>Thomas Peacock, The Pirbright Institute, UK</u>				
14:25	14:55	Human papillomavirus (HPV) genital infections in young women: viral load, immune, and evolutionary dynamics Samuel Alizon, CNRS, Paris, France				
14:55	15:10	Forecasting H5N1 evolution for vaccine design Tomas Grudny, Massachusetts Institute of Technology, USA				
15:10	15:25	Title TBC TBC				
15:25	16:05	Refreshment break and networking				
15:50	16:05	Briefing for Session 2 speakers, chair & moderator - Auditorium				
16:05	17:50	Session 2: Animals and zoonoses				
		Chair: C. Jessica E Metcalf, Princeton Univeristy, USA Moderator: Nick Loman, University of Birmingham, UK				
16:05	16:35	Using serologic cohorts to understand henipavirus spillovers in Bangladesh Emily Gurley, Johns Hopkins Bloomberg School of Public Health, USA				
16:35	17:05	Title TBC Sarah Hill, Royal Veterinary College, UK				
17:05	17:20	Genomic epidemiology of Pestivirus bovis unravels different genotype circulation dynamics in France Claire Lescoat, INRAE, France				
17:20	17:35	Quantifying the drivers of Usutu virus introduction and dispersal in Europe James Baxter, Roslin Institute, UK				
17:35	17:50	Isolation and characterization of an infectious mammalian chu-like virus from Tasmanian devil tumor cells Julien Melade, The University of Sydney, Australia				
17:50	18:30	Poster pitch talks for odd number posters				
18:30	19:30	Poster session 1 - odd number posters				
19:30	21:00	Dinner				
19:30		Bar open (card payments only)				



Thursda	Thursday 7 November 2024				
09:15	09:30	Briefing for Session 3 speakers, chair & moderator - Auditorium			
09:30	11:00	Session 3: Epidemics and Outbreaks			
		Chair: Emma Hodcroft, University of Basel, Switzerland Moderator: Kate Grabowski, Johns Hopkins University, USA			
09:30	10:00	Rapid Virus Genomics for Outbreak Investigation: Feasibility and Added Value in Kenya George Githinji, KEMRI Wellcome Trust, Kenya			
10:00	10:30	Advancing Viral Outbreak Surveillance in Brazil through Rapid and Cost-Efficient Nanopore Sequencing Strategies Ingra Morales Claro, University of São Paulo (USP), Brazil			
10:30	10:45	The global and regional spread of dengue virus Verity Hill, Yale University, USA			
10:45	11:00	Genomic Epidemiology Reveals Persistent Zoonotic and Human Transmission of Mpox in West Africa Ifeanyi Omah, University of Edinburgh, UK			
11:00	11:40	Refreshment break and networking			
11:25	11:40	Briefing for Session 4 speakers, chair & moderator - Auditorium			
11:40	13:10	Session 4: Viruses in the changing world			
		Chair: Tanja Stadler, ETH Zürich, Switzerland Moderator: Nick Loman, University of Birmingham, UK			
11:40	12:10	Will there be a warning for the next pandemic? Identifying viral targets of concern C. Jessica E Metcalf, Princeton University, USA			
12:10	12:40	Tracking Viral Ecology and Evolution in a Freshwater Lake Over Three Decades Karthik Anantharaman, University of Wisconsin-Madison, USA			
12:40	12:55	Structural phylogenetics uncover the ancient evolution of Flaviviridae glycoproteins Spyros Lytras, The University of Tokyo, Japan			
12:55	13:10	How fast are viruses spreading in the wild? Simon Dellicour, University of Brussels (ULB), Belgium			
13:10	14:30	Lunch and networking			
14:15	14:30	Briefing for Session 5 speakers, chair & moderator - Auditorium			
14:30	16:15	Session 5: Adaptation and Evolution: Virus dynamics within and between hosts			
		Chair: Sarah Hill, Royal Veterinary College, UK Moderator: Kate Grabowski, Johns Hopkins University, USA			
14:30	15:00	Diverse patterns of intra-host genetic diversity in chronically infected SARS-CoV-2 patients <u>Adi Stern, Tel Aviv University, Israel</u>			
15:00	15:30	Assessing virus evolution with protein language models <u>David Robertson, University of Glasgow, UK</u>			
15:30	15:45	CTL Escape and Reversion in HIV-1 Transmission Pairs: Direct Evidence of Host-Specific Adaptation Harriet Longley, University of Oxford, UK			
15:45	16:00	Rapid global population dynamics and fast surface protein evolution imply a vertebrate host for a prevalent mosquito orthomyxovirus Gytis Dudas, Vilnius University, Lithuania			
16:00	16:15	Evolutionary insights into persistent infections and reinfections across different major lineages of SARS-CoV-2: findings from three years of community surveillance Mahan Ghafari, University Of Oxford, UK			
16:15	16:55	Refreshment break and networking			





16:40	16:55	Briefing for Session 6 speakers, chair & moderator - Auditorium
16:55	17:40	Session 6: Challenging the paradigm in viral genomics
		Chair: Kate Grabowski, Johns Hopkins University, USA
		Moderator: Nick Loman, University of Birmingham, UK
16:55	17:10	Pathoplexus: A Community-Driven Solution for Transparent and Equitable Viral Genomic Data Sharing
		Emma Hodcroft, University of Basel, Switzerland
17:10	17:25	The clocks were wrong: decades of biased phylogenetic branch length estimates for viral pathogens, and the consequences for time tree analysis
		Matthew Hall, University of Oxford, UK
17:25	17:40	Delphy: Fast, scalable, accurate and accessible Bayesian phylogenetics
20	0	Patrick Varilly, Broad Institute of MIT And Harvard, USA
47.40	40.00	
17:40	18:20	Poster pitch talks for even number posters
18:20	19:20	Poster session 2 - even number posters
19:20	21:00	Dinner
19:20		Bar open (card payments only)



Friday 8 November 2024				
09:15	09:30	Briefing for Session 7 speakers, chair & moderator - Auditorium		
09:30	11:00	Session 7: Applied bioinformatics for public health		
		Chair: Thomas Peacock, The Pirbright Institute, UK Moderator: Nick Loman, University of Birmingham, UK		
09:30	10:00	Capturing the diversity of co-circulating pathogens Tanva Golubchik, University of Sydney, Australia		
10:00	10:30	Making surveillance metagenomics a reality Rachel Colquhoun, University of Edinburgh, UK		
10:30	10:45	Unsupervised generative model of viral antibody escape for the design and testing of variant-proof vaccines Noor Youssef, Harvard Medical School, USA		
10:45	11:00	Agnostic identification of pathogen lineages and estimation of fitness dynamics Noémie Lefrancq, ETH Zürich, Switzerland		
11:00	11:15	A protein language model for exploring viral antigenicity evolution Shusuke Kawakubo, The University of Tokyo, Japan		
11:15	11:55	Refreshment break and networking		
11:40	11:55	Briefing for Keynote 2, chair, moderator & committee - Auditorium		
11:55	12:45	Keynote 2		
		Chair: Katrina Lythgoe, University of Oxford, UK Moderator: Kate Grabowski, Johns Hopkins University, USA		
11:55	12:45	Leveraging pathogen sequencing and statistical analysis to inform public health - past, present and future <u>Tanja Stadler, ETH Zürich, Switzerland</u>		
12:45	13:00	Closing remarks and prize presentation		
		Scientific Programme Committee: Kate Grabowski, Johns Hopkins University, USA Christian Happi, Harvard University, USA Nick Loman, University of Birmingham, UK Katrina Lythgoe, University of Oxford, UK		
13:00	14:00	Lunch and departures		
14:00		Coach departures for Stansted and Heathrow airports		
14:10		Coach departures for Cambridge train station and city centre		