

Evolution, Pathogens and Public Health meeting

18th October 2023

University of Glasgow

The meeting will take place in the Advanced Research Centre (ARC) seminar room on the main campus of the University of Glasgow.

Maps: <https://maps.app.goo.gl/ynXKvr7yq513btWx8> **What3words:** behind.doll.stones

Abstracts and co-author details for talks and posters are available here: <http://bit.ly/epph2023>

9:30-10:00	REGISTRATION, TEA, COFFEE & PASTRIES
10:00-10:05	Introduction/background to meeting – Joseph Hughes <i>Session chaired by Jordan Ashworth – Public Health Scotland</i>
10:05-10:30	APOBEC3 deaminase editing in mpox virus as evidence for sustained human transmission since at least 2016
25min	Aine O'Toole University of Edinburgh
10:30-10:45	Spatial analysis of phylogenetic, population and deprivation data from Scottish SARS-CoV-2 outbreak reveals patterns of the community transmission.
15min	Anna Gamza University of Edinburgh
10:45-11:00	Developing a Collaborative Digital One Health Data Framework for Enhanced AMR Surveillance in Uganda
15min	Bryan Wee University of Edinburgh
11:00-11:15	TEA & COFFEE BREAK <i>Session chaired by Joseph Hughes – Centre for Virus Research</i>
11:15-11:30	Variant analysis of avian influenza virus strains using INSaFLU
15min	Carol Leitch Roslin Institute, University of Edinburgh
11:30-11:55	Using genomics to identify and prevent nosocomial viral transmission
25min	Chris Illingworth University of Glasgow
11:55-12:20	Pandemic lessons learned from SARS-CoV-2's emergence and introductions into Scotland
25min	David Robertson MRC-University of Glasgow Centre for Virus Research (CVR)
12:20-12:35	Phylo-epidemiology of an outbreak of HIV among people who inject drugs in Northern Ireland
15min	Kathy Li Belfast Health and Social Care Trust
12:35-13:30	LUNCH & NETWORKING & POSTER SESSION <i>Session chaired by Sharif Shaaban – Public Health Scotland</i>
13:30-13:45	Initiation of a genomics surveillance programme for public health in Northern Ireland
15min	Katie Binley Public Health Agency, Northern Ireland
13:45-14:00	Genomic Surveillance in the assessment of risk-based travel policy in Scotland during the COVID-19 pandemic
15min	Kirstin Leslie Public Health Scotland - Clinical and Protecting Health
14:00-14:15	Levelling up routine surveillance for rabies virus and beyond
15min	Kirstyn Bunker University of Glasgow
14:15-14:40	AgentCOVID: a multi-variant model of COVID spread
25min	Louise Matthews University of Glasgow

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14:40-15:00	AFTERNOON TEA & COFFEE BREAK
	<i>Session chaired by Joseph Hughes – Centre for Virus Research</i>
15:00-15:15	Establishing high-throughput Illumina Sequencing service for SARS-CoV-2 in NHS Lothian lab
15min	Madhuri Barge NHS Lothian
15:15-15:40	Changes in population immunity to coronaviruses reduce the likelihood of emergence SARS-CoV-X
25min	Pablo Murcia University of Glasgow
15:40-16:05	Identifying key genetic characteristics of internal gene segments of recent H5N1 2.3.4.4b lineages
25min	Rute Pinto The Roslin Institute, University of Edinburgh

Poster titles

Combined influence of imperfect vaccines, host genetics, and non-genetic drivers on virus transmission and virulence evolution

Carol Leitch

Roslin Institute, University of Edinburgh

Development of a new tiled amplicon method for Whole Genome Sequencing of RSV

Goncalo Fernandes

NHS Lothian

Non-Polio enterovirus surveillance from environmental samples

Abby Parker

NHS Lothian

Development and implementation of a NGS service in a clinical virology laboratory

Lynne Ferguson

West of Scotland Specialist Virology Centre

One Health genomic epidemiology of Escherichia coli and antimicrobial resistance within the national Malawian poultry supply chain

Vesa Qarkaxhija

University of Edinburgh

Sustained Human Transmission of MPOX in West Africa Resulting from Persistent Spillover Events

Ifeanyi Omah

University of Edinburgh

The meeting has been organized thanks to funding from: