

Together Again

11th Annual Edinburgh Infectious Diseases Symposium

Thursday 23 June 2022, Roslin Institute, Easter Bush

09.00 – 09.30	Coffee and poster set up	
09.30 – 09.35	Ross Fitzgerald , Director Edinburgh Infectious Diseases	Welcome and introduction
SESSION 1: Chair – Katie Atkins		
09.35 – 09.55	Kate Cuschieri , Royal Infirmary of Edinburgh	Impact of HPV vaccination in Scotland
09.55 – 10.15	Liam Morrison , Roslin Institute	Drug resistance in livestock trypanosomes: a neglected problem in neglected pathogens
10.15 – 10.35	Richard Sloan , Infection Medicine	How does the cellular protein RPRD2 inhibit HIV-1 infection?
10.35 – 10.50	Beth Mills , Centre for Inflammation Research	Routes to reducing the burden of microbial keratitis
10.50 – 11.05	Freya Bull , School of Physics and Astronomy	A model for the infection dynamics of a urinary catheter
	Jamie Gorzynski , Roslin Institute	Genomic epidemiological analysis of Legionnaires' Disease in Scotland uncovers long-term endemic L. pneumophila clones of public health importance
	Rose Doyle , School of Biological Sciences	Characterisation of novel dissemination genes in Burkholderia pseudomallei
11.05 - 11.35	Coffee and posters	
SESSION 2: Chair – Till Bachmann		
11.35 – 11:50	Vasso Makrantonis , Infection Medicine	Genome plasticity: A survival strategy for human fungal pathogens
11.50 – 12.05	Joanna Young , School of Biological Sciences	Toxoplasma gondii: dissecting chronic infection of a ubiquitous parasite
12.05 – 12.20	David Smith , Moredun Research Institute	Bradyzoite biology: from invasion to persistence
12.20 – 12.35	Farren Yero , Inst. for Advanced Studies in the Humanities	Where Science Meets Slavery: Reimagining Vaccine History through Anti-Colonial Art
12.40 – 12.55	Will Harvey , Roslin Institute	Predicting the direction of influenza evolution

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	Piotr Janas , Centre for Inflammation Research	Respiratory syncytial virus infection causes long-term changes in the expression of major histocompatibility complexes in murine airway epithelial cells
	Richa Sharma , School of Chemistry,	Fluorescent smart probes – a "tag-and-kill" approach for infectious microbial pathogens
	Nelly Mak , Infection Medicine	Does Allelic Variation in the IFITM Amphipathic Helix Influence Its Antiviral Activity?
12.55 – 14.10	Lunch and posters	
	SESSION 3: Chair – Elly Gaunt	
14.10 – 14.25	Prerna Vohra , School of Biological Sciences	Sequencing approaches to understand and control zoonotic pathogens
14.25 – 14.45	Ian Laurensen , Royal Infirmary of Edinburgh	Diagnosing mycobacterial infection – where are we and where are we going?
14.45 – 15:05	Lonneke Vervelde , Roslin Institute	Mucosal tissue models: from egg to enteroid
15:05 – 15.25	Katerina Guschanski , School of Biological Sciences	AMR in ancient DNA
15.25 – 15.40	KER MEMORIAL PRIZE WINNER: Mabel Tetley , School of Biological Sciences	Analysis of released peptidases and their role in the transmission biology of African trypanosomes
15.40 – 16.10	Tea and coffee / posters	
	SESSION 4: Chair – Ross Fitzgerald	
16.10 – 16.15	Presentation of poster prize	
16.15 – 17.15	KER MEMORIAL LECTURER: Sarah Gilbert , University of Oxford	ChAdOx1-vectored vaccines against different viral targets
17.15 – 18.30	Drinks reception – ALL WELCOME	

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Poster presentations

#	Poster details
1	A model for the infection dynamics of a urinary catheter
	Freya Bull; Sharareh Tavaddod; Nick Bommer; Meghan Perry; Chris Brackley; Rosalind Allen
	School of Physics and Astronomy, University of Edinburgh; School of Physics and Astronomy, University of Edinburgh; Veterinary Specialists Scotland; Regional Infectious Diseases Unit, Western General Hospital; School of Physics and Astronomy, University of Edinburgh; School of Physics and Astronomy, University of Edinburgh
2	Assembly and annotation of <i>Trypanosoma brucei equiperdum</i> and <i>T. b. evansi</i> kinetoplast DNA and comparison with <i>T. b. brucei</i>
	Zihao Chen (1); Elisabeth Wadsworth (1), Philipp Büscher (2) ; Frederik Van den Broeck (2,3), Nicolas J. Savill (1) and Achim Schnauffer (1)
	(1) University of Edinburgh, UK; (2) Institute of Tropical Medicine, Antwerp, Belgium; (3) Rega Institute, KU Leuven, Belgium
3	Broad spectrum antivirals from Cyanobacteria
	María Sole Regina Lancerin, Joseph Palmer, Samantha Griffiths, Richard Sloan
	University of Edinburgh; Scotbio
4	Developing Phage Therapy to Treat Urinary Tract Infections
	Alison Low, Marianne Keith, Alba Park de La Torriente & David Gally
	University of Edinburgh
5	Do nanomedicines have the potential to combat antimicrobial resistance (AMR)?
	Umaru Bah, Nick Wheelhouse, Samantha Donnellan, Stephanie Dancer, Steve Rannard, Catherine Unsworth
	Edinburgh Napier University
6	Does Allelic Variation in the IFITM Amphipathic Helix Influence Its Antiviral Activity?
	Nelly Mak (1), Alex Compton (2), Aaron T Irving (3), Marjolein Kikkert (4), Richard D Sloan (1,3)
	(1) Infection Medicine, School of Biomedical Sciences, University of Edinburgh, UK (2) HIV Dynamics and Replication Program, National Cancer Institute, Frederick, MD, USA (3) Zhejiang University-University of Edinburgh Institute, Haining, Zhejiang, China (4) Molecular Virology Laboratory, Leiden University Medical Center, Leiden, Netherlands
7	Does host age correlate with Antibiotic Resistance?
	Lucy Binsted, Luke McNally
	University of Edinburgh
8	Farm management practices as drivers of antimicrobial use and resistance in livestock
	Carys Redman-White, supervised by Prof Dominic Moran, Prof Andy Peters and Dr Adrian Muwonge
	GAAFS and SEBI-L
9	Genome-scale analysis of <i>Staphylococcus aureus</i> to identify determinants of avian host-adaptation
	Fiona A Sargison, Joana Alves, Zhiguang Wu, Amy C. Pickering, Adam Balić, & J. Ross Fitzgerald
	Roslin Institute
11	Initial characterisation of a conserved protein family in Apicomplexan species.
	Valentin Riomoros Barahona
	School of Biological Sciences, University of Edinburgh

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	Investigating heterochromatin-mediated anti-fungal resistance in <i>Cryptococcus neoformans</i> isolated from HIV patients in Tanzania
12	Becky Yeboah (1), Manu Shukla (1), Neil Stone (2), Tihana Bicanic (2) and Robin Allshire (1). Wellcome Centre for Cell Biology, University of Edinburgh, and Institute of Infection and Immunity, St George's University of London
	Protein Levels of Pro-inflammatory Cytokines and Chemokines as Biomarkers of <i>Mycobacterium bovis</i> Infection and BCG Vaccination in Cattle
13	Hamza Khalid , Anouk Van Hooij, Timothy Connelley, Annemieke Geluk, Jayne Hope The Roslin Institute and Leiden University Medical Center, the Netherlands
	RNA editing ligase 1 as a drug target: On the road to lead generation
14	Laurine Brouck(1), Zandile Nare (1), Marios Sardis (1), James Smith (2), Martin Wear (3), Mike Speake (4), Angus Morrison (4,5), Stuart McElroy (4,5), Atlanta Cook (3), Eva Gluenz (2), Achim Schnauffer (1) (1) Institute for Immunology and Infection Research, University of Edinburgh, UK; (2) Institute of Infection, Immunology and Inflammation, University of Glasgow, UK; (3) Institute of Quantitative Biology, Biochemistry and Biotechnology, University of Edinburgh, UK; (4) European Screening Centre, Newhouse, UK; (5) BioAscent Discovery Ltd, Newhouse, UK
	SAAP-148 Inhibits Adherence and Survival of Antibiotic-Resistant Bacteria in 3D Epithelial Models
15	Patrick R Lennard(1), Pieter S Hiemstra (2), Julia R Dorin (1), Peter H Nibbering (3) (1) Centre for Inflammation Research, Institute for Regeneration and Repair, University of Edinburgh, UK; Departments of Pulmonology (2) and Infectious Diseases (3), Leiden University Medical Center, Leiden, Netherlands
	Stem Cells as novel tools for combating antimicrobial resistance
16	Amira Aburza, Dr Cristina Esteves, Dr Paterson Gavin, Prof Xavier Donadeu The University of Edinburgh
	Systematic review on animal African trypanocide resistance
17	Keneth Iceland Kasozi, Ewan Macleod, Sue Welburn Infection Medicine, University of Edinburgh
	Exploiting seasonal coronaviruses to gain insights into SARS-CoV2 pathogenesis
18	Samantha Griffiths and Jürgen Haas Infection Medicine, University of Edinburgh
	The Role of RGD-Integrins and Downstream Signaling Pathways in Human Coronavirus Infection
19	Kerr, H. (1), Fletcher, S.L. (1), Daniels, A. (1,2), Carragher, N.O.(3), Tait-Burkard, C. (1) (1) The Roslin Institute and R(D)SVS, University of Edinburgh; (2) Division of Infection Medicine, University of Edinburgh; (3) Cancer Research UK Edinburgh Centre, Institute of Genetics & Cancer, University of Edinburgh
20	What does SARS-CoV-2 sequencing tell us about the COVID-19 pandemic in Africa? Charu Sharma (1), Dr. Lu Lu (2), Prof. Mark Woolhouse (2) (1) Institute of Evolutionary Biology, University of Edinburgh, (2) Usher Institute, University of Edinburgh