

Number	Poster
1	AI-assisted microscopy for blood analysis and infection detection
	Alex Hunt, Holger Schulze, Kay Sammel, Bob Fisher, Till T. Bachmann
	Centre for Inflammation Research, Institute for Regeneration and Repair, The University of Edinburgh, UK; Tissues, Cells & Advanced Therapeutics, Scottish National Blood Transfusion Service, NHS National Services Scotland, UK; School of Informatics, University of Edinburgh, UK
2	Beyond the host: balancing conservation of biodiversity with infectious disease risks
	Stephanie Brien, Katherine Mertes, Erhan Yalcindag, Marie Petretto, Melissa Marr, Ouled Ahmed Hatem, Mahamat Hassan Hacha, Tchari Doungous, Mahamat Saboun, Moukhtar Defallah, Mark Bronsvort and Rob Ogden
	Royal (Dick) School of Veterinary Studies and the Roslin Institute, UK 2 Smithsonian Conservation Biology Institute, USA, 3 Marwell Wildlife, UK 4 Veterinary 1 Royal (Dick) School of Veterinary Studies and the Roslin Institute, UK; Smithsonian Conservation Biology Institute, USA; Marwell Wildlife, UK; Veterinary Research Institute of Tunisia, Tunisia; Department for the Conservation of Wildlife and Protected Areas, Chad; Institute of Livestock Research for Development, Chad
3	Biosensors for Rapid Diagnostics of Infection and Antimicrobial Resistance at Point of Care
	Holger Schulze 1,2, Andrew Arnott 2, Adriana Libori 2, Eleojo A. Obaje 2, Grace Henihan 2, Till T. Bachmann 1,2
	1. Centre for Inflammation Research, Institute for Regeneration and Repair, The University of Edinburgh, UK; 2. Infection Medicine, Edinburgh Medical School, The University of Edinburgh, UK
4	Catching an ESKAPEd Pathogen: Investigating Antimicrobial Peptoids against <i>P. aeruginosa</i>
	Melanie Burger 1, Jennifer S. Lin 2, Annelise E. Barron 2, Madeleine G. Moule 1
	Institute for Immunology & Infection Research, School of Biological Sciences, University of Edinburgh, Edinburgh, UK 2 Department of Bioengineering, School of Medicine, Stanford University, Stanford, California 94305, United States
5	Challenges Facing the Global HIV-1 Epidemic
	Sarah Barrie
	University of Edinburgh
6	Mesenchymal Stem/Stromal Cells as novel tools for combating antimicrobial resistance
	Amira Aburza, Cristina Esteves, Gavin Paterson and Xavier Donadeu
	The Roslin Institute and Royal (Dick) School of Veterinary Studies, University of Edinburgh
7	Contribution of Silent Carriers in the Epidemiology and Persistence of African Trypanosomiasis (HAT)
	Caitlin Jones
	University of Edinburgh
8	Defining early entry mechanisms of <i>Mycobacterium avium</i> paratuberculosis (MAP) into the host
	Omar A. Alfituri, Neil A. Mabbott, Jayne Hope, Joanne M. Stevens
	The Roslin Institute
9	Designing a novel porcine RNA interference library for coronavirus host-pathogen interactions screening
	Andrew Hanton, Amanda Warr, Christine Tait-Burkard
	The Roslin Institute, The Royal (Dick) School of Veterinary Studies, The University of Edinburgh, Easter Bush Campus, Midlothian, United Kingdom
10	Developing a model for understanding intestinal inflammation during malaria infection.
	Simar Mann
	University of Edinburgh
	Development of a porcine genome-wide CRISPR/Cas9 screen to identify host restriction factors against swine influenza virus

11	Vayalena Drampa 1, Rosemary Blake 1, Nicholas Parkinson 1, Spring Tan 1, Paul Digard 1, Kenny Baillie 1, Jonathan Snyder 2, Finn Grey 1. 1. The Roslin Institute, University of Edinburgh 2. Elanco US Inc.
12	Direct lysis RT-qPCR-based RNAi screen of SARS-CoV-2 production reveals host genes involved in the entire replication cycle. Daniels A.1., Kerr H.1,Fletcher S.L.1, Craig N. 1, O'Shea M.1, Griffiths S.2, Haas J.G.2, Tait-Burkard C.1 1 The Roslin Institute and R(D)SVS, University of Edinburgh, Easter Bush, Edinburgh, UK 2 Division of Infection Medicine, University of Edinburgh, Edinburgh, United Kingdom
13	Diversity and Composition of gut protist in young rural Zimbabwean Children Lorraine Pfavayi1,2; Elopy Sibanda3,4; Stephen Baker5; Mark Woolhouse1,2; Takafira Mdluza4,6; Francisca Mutapi1,2 1. University of Edinburgh, UK; 2. Tackling Infections to Benefit Africa (TIBA) Partnership, University of Edinburgh; 3. National University of Science and Technology (NUST), Zimbabwe; 4. TIBA Partnership Zimbabwe; 5. University of Cambridge, UK; 6. University of Zimbabwe
14	E. coli lipopolysaccharide is an important factor in bacteriophage infection Emily Welham, Alison Low, Marianne Keith, Alba Park De La Torrente, Sean McAteer, Gavin Paterson, David Gally University of Edinburgh
15	Evaluating the potential of nanomedicines to combat antimicrobial resistance. Umaru Bah Edinburgh Napier University
16	Generation and characterisation of an interaction dataset of uropathogenic <i>Escherichia coli</i> strains and a panel of bacteriophage for 'smarter' phage therapy treatments Alison Low, Marianne Keith, Alba Park De La Torriente, Antonia Chalka, Adriana Vallejo-Trujillo, Sean McAteer, Gavin Paterson & David Gally The Roslin Institute
17	Genome-Scale CRISPR-Cas9 Knockout Screening in Avian Cells to Identify Host Factors Essential for Influenza Virus Infection Rosemary Blake ¹ ; A. Lee; N. Parkinson ¹ ; V. Drampa ¹ ; S. Tan ¹ ; K. Bailie ¹ ; P. Digard ¹ ; R. Hawken ² ; F. Grey ¹ ¹ The Roslin Institute, University of Edinburgh; ² Cobb-Vantress, Arkansas
18	Group B Streptococcus Phasevarion Joana Alves, Connor Bowel, Charlotte Bulkeley, Alix Johnston, Josh Rand, Nicola Lynskey The Roslin Institute
19	Helminth induced monocytosis conveys protection from respiratory syncytial virus infection. Matthew O Burgess ¹ Piotr Janas ¹ Karla Berry ¹ Hannah Mayr ¹ Matthias Mack ² Stephen J Jenkins ¹ Calum C Bain ¹ Henry J McSorley ³ Jurgen Schwarze ^{1, 4} 1 Centre for Inflammation Research, University of Edinburgh, United Kingdom. 2 University Hospital Regensburg, Germany. 3 Cell signalling and Immunology, School of Life Sciences, University of Dundee, United Kingdom, 4 Child Life and Health, University of Edinburgh, United Kingdom.
20	How often is the Independent Action Hypothesis supported empirically? A systematic review of host-pathogen systems. Kiran Wadhawan; Pedro Vale; Helen Alexander University of Edinburgh; School of Biological Sciences; Institute of Ecology and Evolution
	Investigating the role of mitochondrial dynamics in the macrophage microbicidal response against <i>S. pneumoniae</i>.

21	<p>Brian J. McHugh, Mohammed Mohasin, Katharin Balbirnie-Cumming, Clark D. Russell, Jennifer Marshall, Tim Regan, Nicholas Parkinson, James Furniss, J. Kenneth Baillie, David H. Dockrell</p> <p>1) The University of Edinburgh Centre for Inflammation Research, Queen’s Medical Research Institute, Edinburgh BioQuarter, EH16 4TJ, U.K. 2) Department of Biochemistry and Molecular Biology, Faculty of Biological Sciences, University of Dhaka, Bangladesh 3) The Roslin Institute, University of Edinburgh, Easter Bush Campus, Midlothian, Edinburgh EH25 9RG, U.K.</p>
22	<p>Lung macrophage dynamics under early infection with respiratory syncytial virus</p> <p>Jiawei (Yomanda) Liang¹, Wouter T’Jonck¹, Calum Bain¹</p> <p>1. Centre for Inflammation Research, Institute for Regeneration and Repair, The University of Edinburgh, UK</p>
24	<p>Overcoming Barriers in Our Understanding of Burkholderia pseudomallei Systemic Dissemination</p> <p>Rose Doyle (1), Joanne Stevens (2), Madeleine G. Moule (1)</p> <p>(1) Institute of Infection and Immunology Research, The University of Edinburgh, Edinburgh, United Kingdom ; (2) The Roslin Institute and Royal (Dick) School of Veterinary Studies, University of Edinburgh, Edinburgh, United Kingdom</p>
25	<p>P.I.G & TIBA parasitology samples BIOBANK</p> <p>Neil Duncan, Francisca Mutapi</p> <p>1.University of Edinburgh, UK, 2.Tackling Infections to Benefit Africa (TIBA) Partnership, University of Edinburgh</p>
26	<p>Pathogen surveillance on pig farms using air metagenomics</p> <p>Wee BA(1), Craig NM(1), Gerber PF(2), Wang JJ(4), Shih B(1), Muwonge A(1), Opriessnig T(4,5)</p> <p>1 The Roslin Institute and The Royal (Dick) School of Veterinary Studies, University of Edinburgh, Midlothian, UK ; 2 Animal Science, School of Environmental and Rural Science, University of New England, Armidale, NSW, Australia; 3 Key Laboratory of Animal Epidemiology of the Ministry of Agriculture, College of Veterinary Medicine, State Key Laboratory of Agrobiotechnology, China Agricultural University, Beijing, People’s Republic of China; 4 Department of Veterinary Diagnostic and Production Animal Medicine, College of Veterinary Medicine, Iowa State University, Ames, Iowa, USA ; 5 Moredun Research Institute, Penicuik, Midlothian, UK</p>
27	<p>Pre-pandemic SARS-CoV-2 specific antibody responses in Africa</p> <p>Francisca Mutapi</p> <p>1.University of Edinburgh, UK; 2.Tackling Infections to Benefit Africa (TIBA) Partnership, University of Edinburgh</p>
28	<p>Prophage degradation enhances stress tolerance to an emergent lineage of M4 Group A Streptococcus</p> <p>Josh Rand, Claire E Turner, Nicola N Lynskey</p> <p>1The Roslin Institute, University of Edinburgh, UK 2The University of Sheffield, Sheffield, United Kingdom</p>
29	<p>Rational design of a sun-unit vaccine against Coxiella burnetii</p> <p>Stephen Fitzgerald</p> <p>Moredun Research Institute</p>
30	<p>SAAP-148 Protects 3D Epithelial Skin and Airway Models Against Colonization by Antimicrobial Resistant Bacteria</p> <p>Patrick R. Lennard(1,2,3), Pieter S. Hiemstra(2), Julia R. Dorin(3) and Peter H. Nibbering(1)</p> <p>(1)Department of Infectious Diseases, Leiden University Medical Centre, Leiden, The Netherlands; (2)Department of Pulmonology, Leiden University Medical Centre, Leiden, The Netherlands; (3)Centre for Inflammation Research, University of Edinburgh, Queen’s Medical Research Institute, Edinburgh, United Kingdom</p>
31	<p>Situational Analysis of Neglected Tropical Diseases in Zimbabwe</p> <p>1.Gabrielle Thompson, 2.Lorraine Pfavayi, 3. Takafira Mduluza 4.Francisca Mutapi</p>

	University of Zimbabwe (3); Tiba Partnership Zimbabwe (3); Tiba Partnership - University of Edinburgh (1,2,4); Parasite Immuno-epidemiology Group (1,2,4); University of Edinburgh (1,2,4)
32	Impact of mechanisms of antibiotic resistant strain competition on dynamics of <i>Streptococcus pneumoniae</i> following introduction of PCV: a modelling study
	Hannah C. Lepper ¹ , Victoria Dyster ² , Stephanie W. Lo ² , Gerry Tonkin-Hill ³ , Duc Anh Dang ⁴ , Hung Thai Do ⁵ , Stefan Flasche ⁶ , Stephen D. Bentley ² , Lay Myint Yoshida ⁷ , Nicholas G. Davies ⁶ , Katherine E. Atkins ^{1,6}
	1 Usher Institute, University of Edinburgh, UK; 2 Wellcome-Sanger Institute, UK; 3 University of Oslo, Norway; 4 National Institute of Hygiene and Epidemiology; 5 Pasteur Institute of Nha Trang, Vietnam; 6 London School of Hygiene and Tropical Medicine, UK; 7 Nagasaki University, Japan
33	The effects of 206-nm and 222-nm far-UVC light on bacteria
	Asta Valanciute (1), Syam Mohan Padinjarottu Charinjathil Mohanan (1), Calum Ross (2), Alex Burder (1), John Travers (2), Robert Thomson (2), Kev Dhaliwal (1)
	1. Translational Healthcare Technologies Group, Centre for Inflammation Research, Queen's Medical Research Institute, University of Edinburgh, Edinburgh, UK; 2. Institute of Photonic and Quantum Science, Heriot-Watt University, Edinburgh, UK
34	The probability of resistance cell establishment is influenced by antibiotic dose and interaction with the sensitive population.
	Grace Taylor-Joyce, Helen Alexander
	University of Edinburgh, School of Biological Sciences, The Institute of Ecology and Evolution.
35	The role of pH in detection of bacterial biofilms
	L. Confalonieri ¹ , S. Direito ¹ , S. Titmuss ¹ , S. Minett ² , A. Sheward ² , R. Allen ^{1,3}
	1 School of Physics and Astronomy, The University of Edinburgh, Edinburgh, UK; 2 KIMAL, Bromsgrove, UK; 3 Institute of Theoretical Microbial Ecology Institute, Friedrich Schiller University, Jena.
36	Traveling words: Uncovering motifs among parasitic small RNAs
	Yenetzi Villagrana-Pacheco, Kyriaki Neophytou, Isaac Martínez-Ugalde, José Roberto Bermúdez-Barrientos, Amy H. Buck, Cei Abreu-Goodger
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