

Edinburgh Infectious Diseases

Leading infectious disease research and training

Annual Symposium Wednesday 1 June 2016, The Hub, Castlehill, Edinburgh

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Fifth Annual Symposium

Wednesday 1 June 2016
9 – 6 pm

The Hub, Castlehill, Edinburgh

Ker Memorial Lecturer: Prof Gordon Dougan

*Genetic analysis of host-pathogen
interactions during infection*

Two £100 prizes for best posters
presented by a student and a postdoc

Join us for a day exploring the best research
in infectious diseases in Edinburgh!

Web: <http://www.eid.ed.ac.uk/symposium2016>

Twitter: #EIDsymp16



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Programme

9.00 – 9.30	Coffee and poster set up	
9.30 – 9.40	Ross Fitzgerald (Director <i>Edinburgh Infectious Diseases</i>)	<i>Welcome and introduction</i>
	SESSION 1: Chaired by Keith Matthews	
9.40 – 10.00	Rick Maizels , Centre for Molecular Parasitology, University of Glasgow	<i>Exploiting helminths for therapy – a molecular approach</i>
10.00 – 10.20	Lonneke Vervelde , The Roslin Institute	<i>Transgenic MacReporter chickens: Phagocytes and their interactions with pathogens revisited</i>
10.20 – 10.40	Achim Schnauffer , Inst. of Immunology and Infection Research	<i>The function of mitochondrial DNA in the sleeping sickness parasite <i>Trypanosoma brucei</i></i>
10.40 – 11.00	Moira Whyte , Centre for Inflammation Research	<i>Innate immune response to infection by respiratory pathogens</i>
11.00 – 11.30	Tea and coffee / posters	
	SESSION 2: Chaired by Amy Buck	
11.30 – 11:50	Pete Kingsley , School of Social and Political Science	<i>Controlling sleeping sickness in Southern Sudan: remembering, forgetting and the production of humanitarian knowledge</i>
11.50 – 12.10	Sara Macias Ribela , Inst. of Immunology and Infection Research	<i>The crosstalk between type-I Interferon response and miRNAs</i>
12.10 – 12.30	Jürgen Haas , Division of Infection and Pathway Medicine	<i>Pathogen-host interactions in Herpes simplex virus type 1</i>
12.30 – 12.50	Colin McInnes , Moredun Research Institute	<i>What are the chances of the red squirrel surviving in the UK?</i>
12.50 – 14.10	Lunch / posters	
	SESSION 3: Chaired by Kate Templeton	
14.10 – 14.30	Kenny Baillie , The Roslin Institute and Royal Infirmary of Edinburgh	<i>Translational genomics in critical care medicine</i>
14.30 – 14.50	Teuta Pilizota , Institute of Cell Biology	<i>Measuring changes in energetics of individual cells treated with antibiotics</i>
14.50 – 15:10	Karina Kielmann , Institute for Global Health & Development, Queen Margaret University	<i>Decentralising Molecular Diagnostics for TB in South Africa: A Socio-Technical Approach</i>
15:10 – 15.30	Mark Woolhouse , Centre for Population Health Sciences	<i>Theileria coinfections and heterologous reactivity</i>
15.30 – 15.45	KER MEMORIAL PRIZE WINNER Chris Johnston , Inst. Imm & Inf Res.	<i>Helminth-induced immunomodulation during solid organ transplantation</i>
15.45 – 16.10	Tea and coffee / posters	
16.10 – 16.15	Presentation of poster prize	
16.15 – 17.15	KER MEMORIAL LECTURER Gordon Dougan , Sanger Institute	<i>Genetic analysis of host-pathogen interactions during infection</i>
17.10 – 18.30	Drinks reception – ALL WELCOME	

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The Ker Memorial Prize and Lecture

The Ker Memorial Prize and Lecture are very generously supported by Miss Aileen Ker, in memory of two outstanding Edinburgh physicians, her grandfather Dr. Claude Buchanan Ker, and his son (her father), Dr. Frank Leighton Ker.

- **Dr. Claude Buchanan Ker** (1867-1925) spent his professional medical career in Edinburgh, working ceaselessly to improving the treatment of infectious diseases. He is best remembered for his tireless efforts to build the City Fever Hospital which opened in Colinton in 1903, and of which he was medical superintendent for 21 years.
- **Dr. Frank Leighton Ker** (1907-1966) began his medical career in Edinburgh and went on to carry out his main work at the East Birmingham Hospital, where he became medical superintendent in 1950.

Ker Memorial Prize

The **Ker Memorial Prize** is awarded annually to the PhD student who has submitted the best thesis on Infectious Diseases during that year.

In 2016 there were 3 excellent nominations for the Ker Memorial Prize

- Dr Matthew Hall, Institute of Evolutionary Biology (Woolhouse lab)
- Dr Chris Johnston, Institute of Immunology and Infection Research (Maizels Lab)
- Dr Jon Pavelin, Roslin Institute (Grey Lab)

The judges, Dr Till Bachmann (Division of Infection and Pathway Medicine, University of Edinburgh) and Dr Kate Templeton (Department of Laboratory Medicine, Royal Infirmary of Edinburgh), were very impressed by the calibre and impact of all their work.

The 2016 Prize was awarded to **Dr Chris Johnston** for his thesis entitled

- *Exploration of Helminth-derived Immunoregulatory Molecules as Options for Cellular or Pharmacological Intervention in Transplantation*

Ker Memorial Lecturer

The **Ker Memorial Lecture** is given by an eminent invited scientist in Infectious Diseases.

The 2016 **Ker Memorial Lecturer** is **Professor Gordon Dougan** from the Wellcome Trust Sanger Institute in Hinxton, Cambridge, who will speak on the *Genetics of Host-Pathogen Interactions*.

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About the speakers

Professor Rick Maizels
Centre for Molecular Parasitology, University of Glasgow
Rick carried out his PhD at the National Institute of Medical Research in Mill Hill. From there he moved to California, firstly at Caltech in Pasadena, and then at the University of California Los Angeles as postdoc. He returned to the UK as a staff scientist back at the NIMR, before taking up a lectureship at Imperial College London. He moved up to Edinburgh in 1995 as Professor of Zoology in the Institute of Immunology and Infection Research, and earlier this year he moved to the Wellcome Trust Centre for Molecular Parasitology at the University Glasgow. His research is primarily interested in multicellular helminthic parasites, including some that cause widespread tropical diseases. In particular, the lab is testing the hypothesis that helminths exploit the body's own safety mechanisms which have evolved to minimise the risk of autoimmunity, and is seeking to exploit these effects therapeutically to treat conditions such as asthma and inflammatory bowel disease.
Dr Karina Kielmann
Institute for Global Health and Development, Queen Margaret University, Edinburgh
Karina is a medical anthropologist with training in anthropology and public health. She carried out her PhD at Johns Hopkins University in Baltimore and has 15 years of experience in research, teaching, and developing capacity for social science research in international public health settings. Prior to joining Queen Margaret University in 2011, she was based at in the Department of Global Health & Development at the London School of Hygiene and Tropical Medicine (2001-2011) as a lecturer and senior social scientist advising on three successive DfID-funded programmes addressing control of TB and HIV. Her current research is in two main areas, firstly, examining the 'boundary work' of community and lay health workers in Southern Africa and in India and secondly, investigating the social and health systems context of rapid diagnostic testing technologies in Southern Africa.
Dr Achim Schnauffer
Institute of Immunology and Infection research, Ashworth Labs, Kings Buildings
Achim carried out his PhD at the University of Bern, Switzerland. He then moved to Seattle, first at the University of Washington and then at the Seattle Biomedical Research Institute. He moved to Edinburgh in 2008 and is now a reader in Parasite and Mitochondrial Biology. His lab studies the mitochondrial biology of trypanosomes, single cellular organisms that are important parasites of man and livestock. These organisms have taken biological principles that underpin all life on earth and "twisted them into something bizarre and unique". This is particularly true for their mitochondrial biogenesis and the structure and expression of their mitochondrial genome, which the lab studies and exploit for the development of new drugs.
Professor Moira Whyte
MRC Centre for Inflammation Research, Queens' Medical Research Institute, Little France
Moira is a respiratory physician. She carried out her training mainly in London (St Bartholomew's Hospital Medical College, Hammersmith Hospital, Royal Postgraduate Medical School and Imperial Cancer Research Fund). After MRC and then Wellcome Clinical Fellowships, she moved to Sheffield in 1996 as Professor of Respiratory Medicine and Honorary Consultant in Respiratory and General Medicine. She moved to Edinburgh in 2014 and is now Dean of Clinical Medicine in the University of Edinburgh Medical School. Her research interests have focussed on molecular mechanisms of innate immune cell apoptosis in the context both of chronic inflammatory lung disease and of host defence against bacterial infection. She is also interested in strategies to manipulate host immune responses to

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pathogens, which could have exciting potential for treatment of antibiotic-resistant infection.

Dr Pete Kingsley

Centre of African Studies, School of Social and Political Science, Chrystal Macmillan Building, George Square

Peter has long-standing interests in medicine, development and politics in Africa. He started his career at the University of Birmingham. He then worked in Tanzania and Nigeria where he developed his interests in HIV treatment. He moved to Edinburgh to study for an MSc in African Studies, and then continued with a PhD in Human Geography, entitled "Life Extended: The Intimate Politics of the Antiretroviral Era in Northern Nigeria". Peter is currently part of the FP7-funded Investigating Networks of Zoonosis Innovation (INZI) project, researching trypanosomiasis (sleeping sickness) control. He has carried out fieldwork in Ethiopia, Kenya, Nigeria, Uganda, South Sudan, and Zambia to understand how different control methods have been developed, and are being deployed.

Dr Sara Macias Ribela

Institute of Immunology and Infection Research, Ashworth Labs, Kings Buildings

Sara obtained her PhD in 2008 at the Center for Genomic Regulation in Barcelona, studying splicing regulation. She moved to Edinburgh to work with Javier Caceres at the Institute for Genetics and Molecular Medicine postdoc for postdoctoral stud, and joined the Ashworth Labs in March 2015 as a Chancellor's Fellow. Sara was awarded a five-year Wellcome Sir Trust Henry Dale Fellowship in June last year. Her lab is interested in the crosstalk between the type-I Interferon response and miRNAs, in particular in understanding how double-stranded viral RNAs transiently impair the biogenesis of cellular miRNAs during infection. Her works suggests that a quick and transient inhibition of miRNA biogenesis during the Interferon response may lead to a stronger and robust activation of this antiviral pathway.

Professor Jürgen Haas

Division of Infection and Pathway Medicine, Chancellor's Buildings, Little France

Jürgen graduated in qualified as a physician and carried out his PhD in Munich. Between 1991 - 1994 worked as a postdoc at Harvard University, and took specialist training in Microbiology and Virology from 1994 to 2000 at the Universities of Heidelberg and Munich, before starting his own research group. In 2006, he became Associate Professor at the University of Munich, where he still manages a research group, and in 2008 was appointed the Chair of Viral Genomics here in Edinburgh. He is currently Director of the Division of Infection and Pathway Medicine based in the Chancellor's Building, and is an Honorary Consultant at the Specialist Virology Centre at the Royal Infirmary Edinburgh. The objective of Jürgen's research programme is the identification and characterisation of key steps in the pathogenesis of infectious diseases using genome-wide ("Systems-Biology-based") technologies. These technologies allow the investigation of all components of complex biological systems by collecting and analysing large biological datasets with the help of high-throughput data acquisition and bioinformatics.

Professor Colin McInnes

Moredun Research Institute, Pentland Science Park, Easter Bush

Colin McInnes is currently Head of Vaccines and Diagnostics at Moredun. Colin moved to Moredun over 20 years ago from Glasgow University where he had obtained his PhD. He joined a group working to develop techniques and reagents to study the ovine immune response to infection. In 2003 he became a principal research scientist at Moredun specialising in parapoxvirus infections of ruminants and wildlife. His group was the first to characterise the poxvirus responsible for the deaths of red squirrels, a major contributory factor in their decline within the UK. His current work aim to develop better diagnostics and control measures for parapoxvirus infections of livestock, understand the

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epidemiology of squirrel pox virus infection in grey squirrels, and investigate the feasibility of producing a vaccine against squirrel pox virus in order to protect red squirrels
Dr Kenny Baillie
Roslin Institute, Easter Bush, and Royal Infirmary of Edinburgh, Little France
Kenny studied medicine at the University of Edinburgh, and is now an intensive care specialist at the Royal Infirmary of Edinburgh. Kenny applies translational genomics to critical care medicine. Using genetic and computational techniques his work tries to cut through the complexity of cellular biology and identify tractable therapeutic targets to alter the host response to infection, particularly influenza. He has used similar approaches to understand pathophysiological responses to acute hypoxia, using high altitude as a model.
Dr Teuta Pilizota
Institute of Cell Biology, Roger Land Building, Kings Buildings
Teuta carried is originally from Zagreb in Croatia. She carried out her PhD at the University of Oxford, and did postdoctoral work at Princeton University before moving to the University of Edinburgh in 2013 as a Chancellor's Fellow. One of the main areas of interest in her lab is the changes in bacterial physiological traits during treatment with antibiotics, and in particular on those changes in bacteria that are present in biofilms. She is particularly interested in exploring the 'temporal function' of changes in cellular physiology during antibiotic treatment, the effects the characteristic profiles have on combinatorial drug therapies, and the changes in cellular physiology during early stages of biofilm formation.
Dr Lonneke Vervelde
Roslin Institute, Easter Bush
Lonneke carried out her PhD at the Central Veterinary Institute on Lelstad, The Netherlands on Eimeria tenella infections in chickens. From there she carried out postdoctoral work in the Institute for Animal Health in Compton, UK. She returned Utrecht University in the Netherlands for 15 years, first as a senior scientist and then group leader. Lonneke joined the Roslin Institute in 2013 where she is now a senior fellow. Her research group investigates the immune responses to pathogens and vaccines in poultry with the ultimate goal to enhance immune-mediated resistance and thus improving the welfare of the animals. Her research focuses on economically important pathogens such as avian influenza virus, infectious bronchitis virus and Eimeria species.
Professor Mark Woolhouse
Centre for Population Health Sciences, University of Edinburgh
Mark Woolhouse is Professor of Infectious Disease Epidemiology at the University of Edinburgh, U.K. He studied biology and ecology at the Universities of Oxford and York in the U.K. and Queen's in Canada, then held Research Fellowships at the University of Zimbabwe, Imperial College London and Oxford, before moving to Edinburgh in 1997. His research interests concern the population dynamics of pathogens, especially those associated with emerging infectious diseases and antimicrobial resistance, applying ecological and evolutionary approaches to combat threats to both human and animal health. He is a frequent advisor to the UK government and was awarded an OBE in 2002. He has published over 250 scientific articles and is a Fellow of the Royal Society of Edinburgh and of the Academy of Medical Sciences.
KER MEMORIAL PRIZE WINNER
Dr Christopher Johnston
Institute of Immunology and Infection Research, Ashworth Labs and Royal Infirmary of Edinburgh
Following undergraduate studies and postgraduate foundation training in London, Chris moved to Edinburgh for specialty training in general surgery in 2009. In 2010 he joined the He was subsequently

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appointed to a Wellcome-funded Edinburgh Clinical Academic Track Lectureship programme, carrying out his PhD with Rick Maizels in the Institute of Immunology and Infection Research at Kings Buildings, and Stephen Anderton and Stephen Wigmore in the Queen's Medical Research Institute. Chris's clinical interest is transplantation surgery. Recent research has demonstrated that the secretions from helminthic worms can provide beneficial effects against a multitude of disease processes involving hyperactivity of the immune system including asthma, encephalomyelitis, Crohn's disease and Type I diabetes. Chris's PhD focused on the possibility of also using these helminth-derived products to prevent the immune system rejecting transplanted organs.

KER MEMORIAL LECTURER

Professor Gordon Dougan

Wellcome Trust Sanger Centre, Hinxton, Cambridge

Gordon is currently a Senior Group Leader at the Sanger Institute. Gordon is a Fellow of the Royal Society, the Biology Society, the Academy of Medical Sciences and is an EMBO (European Molecular Biology Organization) member. He established the Centre for Molecular Microbiology and Infection at Imperial College London and was the Board of Management representative for Pathogen Research for ten years (2004-2014) at the Sanger Institute. His research focuses on the genetic analysis of host/pathogen interactions during infection, particularly those involving enteric bacteria. He has worked extensively in both academia and industry, making important contributions in the field of vaccinology where he has worked to improve vaccine delivery to poorly resourced regions.

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Poster presentations



This year there will be two £100 poster prizes for the best posters presented by a student and postdoc. We are very grateful to Affymetrix for their generous support of these prizes.

Please note: poster presenters should be at their posters from 1.20 pm to speak with the judges.

#	Poster
1	A secreted Staphylococcus aureus protein enhances Influenza A virus growth in vitro Mariya Goncheva, Andrew Gill, Bernadette Dutia, Paul Digard, J. Ross Fitzgerald The Roslin Institute, University of Edinburgh, Easter Bush campus EH25 9RG, UK
2	An elusive parasite; the molecular detection of Trypanosome vivax Yuan Shen and Kim Picozzi Division of Infection and Pathway Medicine, University of Edinburgh
3	Analysis and exploitation of the bovine immune response to Trypanosoma congolense and Trypanosoma vivax Laura Vezza(1), Irene McGuinness(1), Heidi Erasmus(2), Tim Rowan(3), Jayne Hope(1), Liam Morrison(1) (1) Division of Infection & Immunity, Roslin Institute, Easter Bush, University of Edinburgh; (2) Clinvet, Bloemfontein, South Africa (3) GALVmed, Doherty Building, Pentlands Science Park Bush Loan, Penicuik, Edinburgh
4	Atomic Resolution Dissection of the Interaction Between Key Malaria Parasite Proteins Christopher Weir(1-3), Lin Chen(1,2), Anthony Hodder(1,2), Alan F Cowman(1,2), Dr Dušan Uhrin(3) and Paul N Barlow(3) (1) University of Melbourne, (2) Walter and Eliza Hall Institute and the (3) University of Edinburgh.
5	Broad-spectrum inhibition of respiratory virus infection by host-targeted miRNA mimics McCaskill, J.L.(1), Alber, A.(2), Ressel, S.(1), Redford, J.(1), Schwarze, J.(3), Dutia, B.(2), and Buck, A.H.(1) (1) Institute of Immunology and Infection Research, School of Biological Sciences, University of Edinburgh, UK, (2) Roslin Institute, University of Edinburgh, UK, (3) MRC Centre for Inflammation Research, University of Edinburgh, UK.
6	Cationic Host Defence Peptides as novel therapeutics for rhinovirus and influenza virus infection Filipa Henderson Sousa(1), Craig Stevens(1), Victor Casanova(1), Fiona Stainsby(1), Jan Pohl(2), Pavel Svoboda(2), Peter G. Barlow(1) (1) School of Life, Sport and Social Sciences, Edinburgh Napier University, Edinburgh, UK; (2) Biotechnology Core Facility, US Centers for Disease Control and Prevention, Atlanta, USA
7	Characterisation of Staphylococcus pseudintermedius Surface Protein L (SpsL): Host-Specificity and Role in the Pathogenesis of Skin Disease Amy Richards(1), Brandon Garcia(2), Ian Monk(3), Giampiero Pietrocola(4), Pietro Speziale(4), Timothy J. Foster(5), Marie O'Shea(1), Magnus Hook(6), Andreas Lengeling(1), J. Ross Fitzgerald(1) (1) The Roslin Institute, University of Edinburgh, UK; (2) Kansas State University, Manhattan,

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	Kansas; (3) University of Melbourne, Melbourne, Australia; (4) University of Pavia, Pavia, Italy; (5) Trinity College Dublin, Dublin, Ireland; (6) Texas A&M University, Houston, Texas
8	Characterisation of the lymphocyte inhibitory activity of lymphostatin: A large multifunctional effector of attaching and effacing <i>Escherichia coli</i>
	Robin L. Cassady-Cain(1), Charlotte R. Bell(1) Elizabeth A. Blackburn(2), Jayne Hope(1) and Mark P. Stevens(1)
	(1) The Roslin Institute, University of Edinburgh, Easter Bush; (2) The Centre for Translational and Chemical Biology (CTCB), University of Edinburgh, Michael Swann Building, King's Buildings
9	Characterization of the effect of <i>Heligmosomoides polygyrus</i> on the microarchitecture of gut associated lymphoid tissues
	Sanchez A.(1), Maizels R. M.(2), Donaldson D. S.(1), & Mabbott N. A(1)
	(1) The Roslin Institute, University of Edinburgh. Easter Bush, UK, EH25 9RG; (2) Wellcome Trust Centre for Molecular Parasitology Sir Graeme Davies Building, 120 University Place, Glasgow, G12 8TA.
10	Diagnosis of <i>Trypanosoma brucei</i> infection in Ugandan Cattle - The Benefits of Standardisation
	Lisa Murray and Kim Picozzi
	Division of Infection and Pathway Medicine, The University of Edinburgh
11	Early host-pathogen interactions in Bovine Respiratory Disease Complex (BRDC)
	J. Drozdowska(1), M. Dagleish(1), J. Finlayson(1), D. Collie(2) & C. Cousens(1)
	(1) Moredun Research Institute, Edinburgh, UK; (2) Roslin Institute, University of Edinburgh, UK.
	East Coast Fever and Vaccination at the livestock/wildlife interface
12	Fiona K Allan(1), Danny Goovaerts(2), Jeremy Salt(2), Ian Handel(1), Harriet Auty(3), Ivan Morrison(1) and Liam Morrison(1)
	(1) Division of Infection and Immunity, Roslin Institute, Easter Bush, University of Edinburgh; (2) GALVmed, Doherty Building, Pentlands Science Park, Bush Loan, Penicuik, Edinburgh; (3) SRUC, Drummondhill, Stratherrick Road, Inverness
13	Effects of host-derived chemokines on the motility and viability of <i>Trypanosoma brucei</i>
	Omar A Alfituri(1), Edith Paxton(1), James M. Brewer(2), Paul Garside(2), Liam J. Morrison(1), Neil A. Mabbott(1)
	(1) The Roslin Institute, The University of Edinburgh, Division of Infection and Immunity, Easter Bush, Midlothian, EH25 9RG, UK; (2) Institute of Infection, Immunity & Inflammation, College of Medicine, Veterinary & Life Sciences, University of Glasgow, Glasgow G12 8TA, Scotland, UK
14	Effects of intestinal infection on the microbiome of sheep: a focussed study on Johne's disease and round worms
	Swang Shallangwa, Dave Bartley, Andrew Free, Alison Morrison and Craig Watkins
15	Exploring the role of host genetic variation of resistance to bovine tuberculosis in dairy cattle
	S Wilkinson(1), SC Bishop(1), RA Skuce(2,3), AR Allen(2), SH McBride(2), M Bermingham(1), JA Woolliams(1) & EJ Glass(1)
	(1) The Roslin Institute and R(D)SVS, University of Edinburgh, Easter Bush, Midlothian EH25 9RG; (2) Agri-Food and Biosciences Institute Stormont, Stoney Road, Belfast BT4 3SD; (3)

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	The Queen's University of Belfast, School of Biological Sciences, Belfast BT9 7BL
16	Extraction of bacterial RNA from human whole blood
	Johannes Brennecke(1), Kate Templeton(2), David Pritchard(3) and Till Bachmann(1)
	(1) Division of Pathway Medicine, Medical School, The University of Edinburgh, Chancellor's Building, Little France Crescent, Edinburgh EH16 4SB; (2) Department of Virology, Royal Infirmary of Edinburgh, 51 Little France Crescent, Old Dalkeith Road, Edinburgh EH16 4SA; (3) Axis Shield, Luna Place, The Technology Park, Dundee DD2 1XA
17	Genomic epidemiology of a Legionellosis outbreak linked to commercial growing media
	Rodrigo Bacigalupe(1), Diane Lindsay(2), Giles Edwards(2) and J. Ross Fitzgerald(1)
	(1) The Roslin Institute, University of Edinburgh, Midlothian, Scotland; (2) Scottish Haemophilus, Legionella, Meningococcus and Pneumococcus Reference Laboratory, Glasgow Royal Infirmary, Glasgow, Scotland
18	Identification of host genes involved in Human Cytomegalovirus infection using a genome-wide CRISPR screen
	Saranya Ramachandran(1), Dominique McCormick(1), Oliver Lin(1), Kenneth Baillie(2), Bernadette Dutia(1), Finn Grey(1)
	(1) Division of Infection and Immunity, The Roslin Institute, University of Edinburgh, (2) Division of Genetics and Genomics, The Roslin Institute, University of Edinburgh
19	Identifying resistance markers for genetic selection of nematode-resistant sheep
	Hazel Wilkie(1), Anton Gossner(1), Stephen Bishop(2), John Hopkins(1)
	(1) Department of Infection and Immunity, (2) Department of Genetics and Genomics, The Roslin Institute, University of Edinburgh.
20	Interactions between ovine lentiviral vaccine vectors and primary cells in vitro
	Rebecca K. McLean(1,2), Ann Wood(1), Sean Wattedegera(1), Jayne C. Hope(2), Gary Entrican(1), David J. Griffiths(1)
	(1) Moredun Research Institute, Pentlands Science Park, Edinburgh; (2) The Roslin Institute and Royal (Dick) School of Veterinary Studies, University of Edinburgh
21	Metabolomics-driven development of a minimal essential medium for the animal trypanosomiasis
	Pieter C. Steketee(1), Edith Paxton(1), Federica Giordani(2), Fiona Achcar(2), Tim Rowan(3), Michael Barrett(2), Liam Morrison(1)
	(1) Roslin Institute, Royal (Dick) School of Veterinary Studies, University of Edinburgh, Easter Bush, Midlothian, EH25 9RG; (2) Wellcome Trust Centre for Molecular Parasitology, Institute of Infection, Immunity, and Inflammation, College of Medical, Veterinary, and Life Sciences, University of Glasgow, Glasgow G12 8TA; (3) GALVmed, Doherty Building, Pentlands Science Park, Bush Loan, Edinburgh, EH25 0PZ
22	Modulation of endogenous LL-37 as an antiviral strategy against human Rhinovirus
	Victor Casanova, Filipa Henderson Sousa, Craig Stevens, Peter Barlow
	School of Life, Sport and Social Sciences, Edinburgh Napier University, Edinburgh, UK
23	Morphology of avian influenza A virus
	Carina Conceicao, Nikki Smith, Helen Wise (1), Lita Murphy, Seema Jasim, Lonneke Vervelde and Paul Digard
	(1) Institute of Biological Chemistry, Biophysics and Bioengineering, Heriot-Watt University Edinburgh. All the other authors are from the Infection and Immunity department of The Roslin Institute, University of Edinburgh, EH25 9RG.
24	Phylogenetic analysis: Proof beyond reasonable doubt?

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	Hannah Brutin, Kim Picozzi and Tim Squires
	Edinburgh Medical School: Biomedical Sciences, University of Edinburgh.
25	Plasmodium chabaudi GPR89 Knockout Parasites
	Rachel Milne, Phil Spence, Wiebke Nahrendorf and Joanne Thompson
	Institute of Immunology and Infection Research, University of Edinburgh
26	Posttranscriptional gene regulatory mechanisms shared by unrelated viral and cellular proteins
	Richard W.P. Smith, Ross C. Anderson, Barbara Gorgoni, Osmany Larralde, Joel W.S. Smith & Nicola K. Gray
	MRC Centre for Reproductive Health & MRC Human Genetics Unit, University of Edinburgh; MRC Centre for Virus Research, University of Glasgow
27	Relatedness and antibiotic resistance gene prediction of Escherichia coli isolates from multiple sources in Nairobi, Kenya by whole genome sequencing
	Dishon Muloi
	Institute of Evolutionary Biology, University of Edinburgh
28	Segment 2 from 2009pdm influenza A(H1N1)pdm09 viruses confers temperature sensitivity on HA yield of candidate vaccine viruses in eggs
	Hussain, S(1), Wise, HM(1), McCauley, JW(2), Engelhardt, O(3) & Digard, P(1)
	(1) The Roslin Institute, University of Edinburgh, EH25 9RG, UK; (2) The Francis Crick Institute, Mill Hill laboratories, London, NW7 1AA, UK; (3) National Institute for Biological Standards and Control, EN6 3QG, UK
29	Stenotrophomonas maltophilia in patients with bronchiectasis
	Elena Perez Fernandez
	Centre for Inflammation Research, University of Edinburgh
30	Studies on the intracellular life of the melioidosis pathogen Burkholderia pseudomallei
	Nurhamimah Zainal Abidin and Jo Stevens
	The Roslin Institute, University of Edinburgh
31	Support Vector Machine applied to predict the zoonotic potential of E. coli O157 cattle isolates
	Nadejda Lupolova and David Gally
	The Roslin Institute, University of Edinburgh
32	The role of microRNAs in the host response to infection in ruminants
	Maria Contreras(1, 2), Anna Karagianni(1), Deepali Vasoya(2), Mick Watson(2), Karen Stevenson(1), Finn Grey(2), David J. Griffiths(1)
	(1) Moredun Research Institute, Pentlands Science Park, Edinburgh; (2) The Roslin Institute and Royal (Dick) School of Veterinary Studies, University of Edinburgh
33	The role of the avian allele of the influenza A virus NS segment in setting host range and pathogenicity
	Matt Turnbull(1), Helen Wise(1), Marlynne Quigg-Nicol(1), Nikki Smith(1), Rebecca Dunfee(2), Pip Beard(1), Brett Jagger(2,3), Yvonne Ligertwood(1), Gareth Hardisty(1), Jeffery Taubenberger(2), Samantha Lycett(1), Bernadette Dutia(1), Paul Digard(1).
	(1) Department of Infection and Immunity, The Roslin Institute, The University of Edinburgh, Easter Bush, Midlothian, EH25 9RG; (2) Division of Intramural Research, National Institute of Allergy and Infectious Diseases, Bethesda, MD 20814, USA; (3) Division of Virology, Department of Pathology, University of Cambridge, Tennis Court Road, Cambridge, CB2 1QP, UK.

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34	Towards new drugs for trypanosomatid diseases based on specific high-affinity inhibitors for <i>Trypanosoma brucei</i> kinetoplastid RNA editing ligase 1
	Marios F. Sardis(1), Stephan Zimmermann(1), Victoria Feher(2), Jesper Sørensen(2), Chris Smith(3), Laurence Hall(1), Mike Greaney(3), Rommie E. Amaro(2), Achim Schnauffer(1)
	(1) Institute of Immunology & Infection Research, University of Edinburgh, UK, (2) Department of Chemistry and Biochemistry, University of California San Diego, USA, (3) School of Chemistry, University of Manchester, UK
35	Understanding the dynamics of Salmonella infection in cattle
	Prerna Vohra, Christina Vrettou, John Hopkins, Jayne Hope and Mark Stevens
	The Roslin Institute & Royal (Dick) School of Veterinary Studies
36	What do kinetoplastids need a kinetoplast for? Life cycle progression of <i>Trypanosoma brucei</i> in the presence and absence of mitochondrial DNA
	Caroline Dewar(1), Paula MacGregor(1), Aitor Casas(2), Nick Savill(1), Alvaro Acosta-Serrano(2), Keith Matthews(1) and Achim Schnauffer(1)
	(1) Institute of Immunology & Infection Research, University of Edinburgh, (2) Liverpool School of Tropical Medicine, United Kingdom

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Registered attendees

First name	Surname	Where do you work?	Email
Tahar	Ait Ali	Roslin Institute, University of Edinburgh	tahar.aitali@roslin.ed.ac.uk
Olanrewaju	Akomolafe	Royal Infirmary of Edinburgh	olanrewaju.akomolafe@nhslothian.scot.nhs.uk
Instisar	Al Shukri	Royal Infirmary of Edinburgh	Intisar.Alshukri@nhslothian.scot.nhs.uk
Omar	Alfituri	Roslin Institute, University of Edinburgh	Omar.Alfituri@roslin.ed.ac.uk
Fiona	Allan	Roslin Institute, University of Edinburgh	Fiona.Allan@roslin.ed.ac.uk
Rosalind	Allen	School of Physics and Astronomy, University of Edinburgh	rallen2@staffmail.ed.ac.uk
Gloria	Amegatcher	School of Biological Sciences, University of Edinburgh	g.amegatcher@ed.ac.uk
Emily	Anderson	Roslin Institute, University of Edinburgh	Emily.Anderson@roslin.ed.ac.uk
Anne	Astier	Centre for Inflammation Research, University of Edinburgh	a.astier@ed.ac.uk
Rodrigo	Bacigalupe	Roslin Institute, University of Edinburgh	Rodrigo.Bacigalupe@roslin.ed.ac.uk
Saikou Y	Bah	Division of Infection and Pathway Medicine, University of Edinburgh	s1150941@sms.ed.ac.uk
Kenny	Baillie	Roslin Institute, University of Edinburgh	
Adam	Balic	Roslin Institute, University of Edinburgh	adam.balic@roslin.ed.ac.uk
Peter	Barlow	Edinburgh Napier University	p.barlow@napier.ac.uk
Ruben	Barroso	Roslin Institute, University of Edinburgh	rbarroso@exseed.ed.ac.uk
Pip	Beard	Roslin Institute, University of Edinburgh	pip.beard@roslin.ed.ac.uk
Andrew	Bease	Roslin Institute, University of Edinburgh	Andrew.Bease@roslin.ed.ac.uk
Amy	Beckett	Roslin Institute, University of Edinburgh	abeckett446@hotmail.com
Charlotte	Bell	Roslin Institute, University of Edinburgh	charlotte.bell@roslin.ed.ac.uk
Fiona	Bellot	Peprotech	fbellot@peprotech.co.uk
Rebecca	Bengtsson	Roslin Institute, University of Edinburgh	rebecca.bengtsson@roslin.ed.ac.uk
Olga	Biskou	Edinburgh Napier University	o.biskou@napier.ac.uk
Carlijn	Bogaardt	School of Biological Sciences, University of Edinburgh	cbogaardt@gmail.com
Barry	Bradford	Roslin Institute, University of Edinburgh	barry.bradford@roslin.ed.ac.uk
Tom	Brechney	Merck	tom.brechney@merckgroup.com
Johannes	Brennecke	Division of Infection and Pathway Medicine, University of Edinburgh	j.brennecke@sms.ed.ac.uk

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Mark	Bronsvoort	Roslin Institute, University of Edinburgh	mark.bronsvoort@roslin.ed.ac.uk
Hannah	Brutin	School of Biological Sciences, University of Edinburgh	hannah.brutin@hotmail.co.uk
Amy	Buck	School of Biological Sciences, University of Edinburgh	a.buck@ed.ac.uk
Charlie	Burgess	Jumpstart	charlotte.burgess@jumpstartuk.co.uk
Stewart	Burgess	Moredun Research Institute	stewart.burgess@moredun.ac.uk
Harry	Campbell	Centre for Global Health Research, University of Edinburgh	harry.campbell@ed.ac.uk
Victor	Casanova	Edinburgh Napier University	V.Casanova@napier.ac.uk
Robin	Cassady-Cain	Roslin Institute, University of Edinburgh	robin.cassady-cain@roslin.ed.ac.uk
Liliane	Chung	Roslin Institute, University of Edinburgh	liliane.chung@roslin.ed.ac.uk
Francesco	Ciampi	Moredun Research Institute	ciampi.fr@gmail.com
Jessica	Clark	School of Biological Sciences, University of Edinburgh	jeclark1989@gmail.com
Sara	Clohisey	Roslin Institute, University of Edinburgh	sara.clohisey@roslin.ed.ac.uk
Carina	Conceicao	Roslin Institute, University of Edinburgh	s1581717@sms.ed.ac.uk
Maria	Contreras Garcia	Moredun Research Institute	mariacontreras.garcia@moredun.ac.uk
Sinclair	Cooper	School of Biological Sciences, University of Edinburgh	sinclairscooper@gmail.com
Yolanda	Corripio-Miyar	Moredun Research Institute	yolanda.corripio-miyar@moredun.ac.uk
Taiana	Costa	Roslin Institute, University of Edinburgh	taianapcosta@yahoo.com.br
Seb	Cotton	Roslin Institute, University of Edinburgh	s1372780@sms.ed.ac.uk
Chris	Cousens	Moredun Research Institute	chris.cousens@moredun.ac.uk
Bob	Dalziel	Roslin Institute, University of Edinburgh	bob.dalziel@roslin.ed.ac.uk
Widad	Dantoft	Division of Infection and Pathway Medicine, University of Edinburgh	widad.dantoft@ed.ac.uk
Alvaro	de Obeso Fernandez del Valle	School of Biomedical Sciences University of Edinburgh	s1255830@sms.ed.ac.uk
Caroline	Dewar	School of Biological Sciences, University of Edinburgh	c.dewar-4@sms.ed.ac.uk
Devesh J.	Dhasmana	NHS Fife, University of St Andrews	djd5@st-andrews.ac.uk
Paul	Dickinson	School of Biological Sciences, University of Edinburgh	Paul.Dickinson@ed.ac.uk
Paul	Digard	Roslin Institute, University of Edinburgh	paul.digard@roslin.ed.ac.uk
David	Donaldson	Roslin Institute, University of Edinburgh	david.donaldson@roslin.ed.ac.uk
Julia	Dorin	Centre for Inflammation Research, University of Edinburgh	julia.dorin@ed.ac.uk
Lauren	Dougal	EUROIMMUN UK Ltd	l.dougal@euroimmun.co.uk

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Gordon	Dougan	Wellcome Trust Sanger Institute	
Joanna	Drozdowska	Moredun Research Institute	Joanna.Drozdowska@moredun.ac.uk
Yue	Du	Roslin Institute, University of Edinburgh	duyue.Dina@gmail.com
Samantha	Ellis	Roslin Institute, University of Edinburgh	samantha.ellis@roslin.ed.ac.uk
Enwono	Eyoh	School of Biological Sciences, University of Edinburgh	e.eyoh@sms.ed.ac.uk
Ciara	Farren	Roslin Institute, University of Edinburgh	cafarren@live.co.uk
Angie	Fawkes	Edinburgh Clinical Research Facility, University of Edinburgh	afawkes@ed.ac.uk
Stephen	Fitzgerald	Roslin Institute, University of Edinburgh	stephen.fitzgerald@roslin.ed.ac.uk
Ross	Fitzgerald	Roslin Institute, University of Edinburgh	
Heloise	Frison	Biolegend	hfrison@biolegend.com
Mizuho	Fukushige	Edinburgh Medical School, University of Edinburgh	m.fukushige@sms.ed.ac.uk
David	Gally	Roslin Institute, University of Edinburgh	dgally@ed.ac.uk
Andrew	Gilford	School of Physics and Astronomy, University of Edinburgh	gilfordglf@gmail.com
Liz	Glass	Roslin Institute, University of Edinburgh	liz.glass@roslin.ed.ac.uk
Mariya	Goncheva	Roslin Institute, University of Edinburgh	Mariya.Goncheva@roslin.ed.ac.uk
Anton	Gossner	Roslin Institute, University of Edinburgh	a.gossner@ed.ac.uk
Bill	Gregory	Roslin Institute, University of Edinburgh	bill.gregory@roslin.ed.ac.uk
Finn	Grey	Roslin Institute, University of Edinburgh	finn.grey@roslin.ed.ac.uk
David	Griffiths	Moredun Research Institute	david.griffiths@moredun.ac.uk
Samantha	Griffiths	Division of Infection and Pathway Medicine, University of Edinburgh	samantha.griffiths@ed.ac.uk
Jürgen	Haas	Division of Infection and Pathway Medicine, University of Edinburgh	juergen.haas@ed.ac.uk
Christopher	Haggarty-Weir	University of Edinburgh, School of Chemistry	C.N.Weir@sms.ed.ac.uk
Fiona	Hamilton	Royal Infirmary of Edinburgh	fiona.j.hamilton@luht.scot.nhs.uk
Faiza	Hansraj	Health Protection Scotland	fhansraj@hotmail.com
David	Harley	Affimetrix/eBioscience	David_Harley@affymetrix.com
Kate	Harrison	Roslin Institute, University of Edinburgh	
Alison	Helon	Dumfries and Galloway Royal Infirmary	alison.helon@nhs.net
Naomi	Henderson	Royal Infirmary of Edinburgh	naomimhenderson@gmail.com
Ana	Herrero Fernandez	Moredun Research Institute	ana.herrero@moredun.uk.ac

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Jayne	Hope	Roslin Institute, University of Edinburgh	jayne.hope@roslin.ed.ac.uk
John	Hopkins	Roslin Institute, University of Edinburgh	john.hopkins@ed.ac.uk
Deborah	Hoyle	Roslin Institute, University of Edinburgh	deborah.hoyle@ed.ac.uk
Hu	Hu	Roslin Institute, University of Edinburgh	tuan-jun.hu@roslin.ed.ac.uk
Nora	Hunter	Roslin Institute, University of Edinburgh	nora.hunter@roslin.ed.ac.uk
Saira	Hussain	Roslin Institute, University of Edinburgh	saira.hussain@roslin.ed.ac.uk
James	Jafari	Division of Infection and Pathway Medicine, University of Edinburgh	s1370665@sms.ed.ac.uk
Seema	Jasim	Roslin Institute, University of Edinburgh	seema.jasim@roslin.ed.ac.uk
Pearl	Jason	Edinburgh Napier University	pearljason7@gmail.com
Siddharth	Jayaraman	Roslin Institute, University of Edinburgh	Siddharth.Jayaraman@Roslin.ed.ac.uk
Chris	Johnston	Royal Infirmary of Edinburgh	chris.johnston@ed.ac.uk
Devika	Joshi	School of Biological Sciences, University of Edinburgh	s1553001@sms.ed.ac.uk
Choon Kiat	Khoo	Roslin Institute, University of Edinburgh	choon-kiat.khoo@roslin.ed.ac.uk
Karina	Kielmann	Queen Margaret University	
Sungwon	Kim	Roslin Institute, University of Edinburgh	Sungwon.Kim@roslin.ed.ac.uk
Pete	Kingsley	School of Social and Political Science, University of Edinburgh	
Johanna	Knipper	School of Biological Sciences, University of Edinburgh	johanna.knipper@ed.ac.uk
Lisanne	Knol	School of Biological Sciences, University of Edinburgh	l.i.knol@students.uu.nl
Zisis	Koutsogiannis	Centre of Integrative Physiology, University of Edinburgh	s1478172@ed.ac.uk
Janice	Kwok	Roslin Institute, University of Edinburgh	janice.kwok@roslin.ed.ac.uk
Clifford	Leen	Western General Hospital, Edinburgh	Clifford.leen@ed.ac.uk
Andreas	Lengeling	Roslin Institute, University of Edinburgh	andreas.lengeling@roslin.ed.ac.uk
Adriana	Libori Sanchez	Western General Hospital, Edinburgh	alibori@ed.ac.uk
Timothy	Lippert	School of Biological Sciences, University of Edinburgh	s1227820@sms.ed.ac.uk
Zofia	Lisowski	Roslin Institute, University of Edinburgh	zofia.lisowski@roslin.ed.ac.uk
Morag	Livingstone	Moredun Research Institute	morag.livingstone@moredun.ac.uk
Javier	Lopez Vidal	School of Biological Sciences, University of Edinburgh	javier.lopezvidal@ed.ac.uk
Hongjin	Lu	Division of Infection and Pathway Medicine, University of Edinburgh	Hongjin.Lu@ed.ac.uk

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Victor	Ludwig Gondim de Oliveira	University of Glasgow	victor-ludwig@hotmail.com
Nadejda	Lupolova	Roslin Institute, University of Edinburgh	yanadya2@gmail.com
Neil	Mabbott	Roslin Institute, University of Edinburgh	neil.mabbott@roslin.ed.ac.uk
Iain	MacArthur	Roslin Institute, University of Edinburgh	iain.macarthur@ed.ac.uk
Sara	Macias Ribella	School of Biological Sciences, University of Edinburgh	
Ewan	MacLeod	Division of Infection and Pathway Medicine, University of Edinburgh	ewan.macleod@ed.ac.uk
Hannah	Mainstone	Roslin Institute, University of Edinburgh	Hmainstone@Hotmail.Co.uk
Rick	Maizels	Wellcome Trust Institute of Molecular Parasitology, University of Glasgow	
Divya	Malik	School of Biological Sciences, University of Edinburgh	Divya.Malik@ed.ac.uk
Greg	Marks	School of Social and Political Science, University of Edinburgh	gregjan31@gmail.com
Kate	Mathers	Centre for Population Health Sciences, University of Edinburgh	kmathers@exseed.ed.ac.uk
Heather	Mathie	Roslin Institute, University of Edinburgh	Heather.mathie@roslin.ed.ac.uk
Jacqui	Matthews	Moredun Research Institute	jacqui.matthews@moredun.ac.uk
Keith	Matthews	School of Biological Sciences, University of Edinburgh	keith.matthews@ed.ac.uk
Hannah	Mccarthy	Royal Infirmary of Edinburgh	hannahmccarthy15@gmail.com
Jana	McCaskill	School of Biological Sciences, University of Edinburgh	jana.mccaskill@ed.ac.uk
Dominique	McCormick	Roslin Institute, University of Edinburgh	dominique.mccormick@roslin.ed.ac.uk
Pauline	McCourt	Thermofisher	Pauline.McCourt@thermofisher.com
Martin	McHugh	Royal Infirmary of Edinburgh and University of St Andrews	martin.mchugh@nhslothian.scot.nhs.uk
Colin	McInnes	Moredun Research Institute	
Ellen	McKay	School of Biological Sciences, University of Edinburgh	ellen@mckays.eu
Rebecca	McLean	Moredun Research Institute	rebecca.mclean@moredun.ac.uk
Tom	McNeilly	Moredun Research Institute	
Chriselle	Mendonca	Roslin Institute, University of Edinburgh	cmendonc@ed.ac.uk
Charles	Metcalf	Division of Infection and Pathway Medicine, University of Edinburgh	metcalcfhtc@gmail.com
Paul	Michels	School of Biological Sciences, University of Edinburgh	paul.michels@ed.ac.uk
Liam	Miller	Division of Infection and Pathway Medicine, University of Edinburgh	liammiller34@hotmail.com
Rachel	Milne	School of Biological Sciences,	rachel.milne@ed.ac.uk

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		University of Edinburgh	
Mark	Milne	Roslin Institute, University of Edinburgh	s1326996@ed.ac.uk
Kathryn	Milne	Centre for Inflammation Research, University of Edinburgh	K.H.Milne@sms.ed.ac.uk
Galen	Milne	Thistle Scientific	galen@thistlescientific.co.uk
Migla	Miskinyte	School of Biological Sciences, University of Edinburgh	mmiskiny@staffmail.ed.ac.uk
Nekesa	Morey	Roslin Institute, University of Edinburgh	nekesamorey@gmail.com
Liam	Morrison	Roslin Institute, University of Edinburgh	Liam.Morrison@roslin.ed.ac.uk
Donald	Morrison	Edinburgh Napier University	d.morrison@napier.ac.uk
Lukas	Mühlbauer	Roslin Institute, University of Edinburgh	lukasmuhlbauer@gmail.com
Lukas	Mühlbauer	Roslin Institute, University of Edinburgh	lukas.muhlbauer@roslin.ed.ac.uk
Lita	Murphy	Roslin Institute, University of Edinburgh	Lita.Murphy@roslin.ed.ac.uk
Janice	Murray	School of Biological Sciences, University of Edinburgh	j.murray@ed.ac.uk
Lisa	Murray	Division of Infection and Pathway Medicine, University of Edinburgh	s1231235@sms.ed.ac.uk
Francisca	Mutapi	School of Biological Sciences, University of Edinburgh	f.mutapi@ed.ac.uk
Kalainanghi	Neelagandan	Western General Hospital, Edinburgh	kalainanghi@gmail.com
Marlynnne	Nicol	Roslin Institute, University of Edinburgh	Marlynnne.Quigg-Nicol@roslin.ed.ac.uk
Stephen	Nutbeam-Tuffs	Roslin Institute, University of Edinburgh	stephen.tuffs@roslin.ed.ac.uk
Conor	O'Halloran	Roslin Institute, University of Edinburgh	conor.o'halloran@roslin.ed.ac.uk
Eleojo	Obaje	Division of Infection and Pathway Medicine, University of Edinburgh	e.a.obaje@gmail.com
Vinicius	Oliveira Rocha Rodrigues		viniciusorr@outlook.com
Daire	O'Shea	Royal Infirmary of Edinburgh Western General Hospital, Edinburgh	Daire.OShea@nhslothian.scot.nhs.uk
Emily	Parr	Roslin Institute, University of Edinburgh	emilyrose.parr@gmail.com
Jon	Pavelin	Roslin Institute, University of Edinburgh	jon.pavelin@gmail.com
Amy	Pedersen	School of Biological Sciences, University of Edinburgh	amy.pedersen@ed.ac.uk
Elena	Perez Fernandez	Centre for Inflammation Research, University of Edinburgh	s1108987@sms.ed.ac.uk
Adele	Perri	Moredun Research Institute	adele.perri@yahoo.it
Meghan	Perry	Division of Infection and Pathway Medicine, University of Edinburgh	meghanperry79@yahoo.co.uk

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Migle	Petruskeviciute	MRC Technology	m.petruskeviciute@gmail.com
Kim	Picozzi	Division of Infection and Pathway Medicine, University of Edinburgh	Kim.Picozzi@ed.ac.uk
Teuta	Pilizota	School of Biological Sciences, University of Edinburgh	
Alessandro	Piscini	National Institute for the Infective Diseases "Lazzaro Spallanzani"	alessandro.piscini@inmi.it
Thibaud	Porphyre	Roslin Institute, University of Edinburgh	t.porphyre@ed.ac.uk
Jennifer	Poyner	Royal Infirmary of Edinburgh Western General Hospital, Edinburgh	jen_poyner@hotmail.com
Daniel	Price	Moredun Research Institute	dan.price@moredun.ac.uk
Kimberley	Prior	School of Biological Sciences, University of Edinburgh	k.f.prior@sms.ed.ac.uk
Juan	Quintana	School of Biological Sciences, University of Edinburgh	quintanamaster@gmail.com
Alexandra	Raftery	University of Glasgow	alexandra.raftery@googlemail.com
Manon	Ragonnet	School of Biological Sciences, University of Edinburgh	manonragonnet@gmail.com
Saranya	Ramachandran	Roslin Institute, University of Edinburgh	saranya.ramachandran@roslin.ed.ac.uk
Sandeep	Ramalingam	Royal Infirmary of Edinburgh	sandeep.ramalingam@nhslothian.scot.nhs.uk
Jordan	Reid	Centre for Population Health Sciences, University of Edinburgh	s1034264@sms.ed.ac.uk
Charlotte	Repton	School of Biological Sciences, University of Edinburgh	charlotte.repton@ed.ac.uk
Amy	Richards	Roslin Institute, University of Edinburgh	amy-claire.richards@roslin.ed.ac.uk
Kevin	Robertson	Division of Infection and Pathway Medicine, University of Edinburgh	kevin.robertson@ed.ac.uk
Clark	Russell	Royal Infirmary of Edinburgh	clarkdrussell@gmail.com
Kay	Russell	Roslin Institute, University of Edinburgh	kay.russell@roslin.ed.ac.uk
Craig	Rutherford	Development and Alumni	craig.rutherford@ed.ac.uk
Gustaf	Rydevik	Roslin Institute, University of Edinburgh	gustaf.rydevik@gmail.com
Alejandra	Sanchez	Roslin Institute, University of Edinburgh	alejandra.sanchez@roslin.ed.ac.uk
Marios	Sardis	School of Biological Sciences, University of Edinburgh	Marios.Sardis@ed.ac.uk
Claudia	Schaffner	School of Biological Sciences, University of Edinburgh	cschaffn@staffmail.ed.ac.uk
Nora	Schmit	School of Biological Sciences, University of Edinburgh	s1243896@sms.ed.ac.uk
Achim	Schnauffer	School of Biological Sciences, University of Edinburgh	achim.schnauffer@ed.ac.uk
Thamarai	Schneiders	Division of Infection and Pathway Medicine, University of Edinburgh	thamarai.schneiders@ed.ac.uk
Holger	Schulze	Division of Infection and Pathway Medicine, University of Edinburgh	Holger.Schulze@ed.ac.uk

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		Pathway Medicine, University of Edinburgh	
Jürgen	Schwarze	Centre for Inflammation Research, University of Edinburgh	jurgen.schwarze@ed.ac.uk
Anuj	Sehgal	Roslin Institute, University of Edinburgh	anuj.sehgal@roslin.ed.ac.uk
Swang	Shallangwa	Moredun Research Institute	s1577662@sms.ed.ac.uk
Ama Bibiana	Shallangwa	Waverley Care	dramazirra@yahoo.com
Darren	Shaw	Royal (Dick) School of Veterinary Studies	Darren.SHaw@ed.ac.uk
Yuan	Shen	Division of Infection and Pathway Medicine, University of Edinburgh	s1264152@sms.ed.ac.uk
Jill	Shepherd	Royal Infirmary of Edinburgh	jill.shepherd@nhslothian.scot.nhs.uk
Raiza	Silva		asraiza@hotmail.com
Jen	Smeed	Jumpstart	jennifer@jumpstartuk.co.uk
Richard	Smith	MRC Centre for Reproductive Health	R.Smith@ed.ac.uk
Nikki	Smith	Roslin Institute, University of Edinburgh	Nikki.Smith@Roslin.ed.ac.uk
Hilary	Snaith	School of Biological Sciences, University of Edinburgh	Hilary.snaith@ed.ac.uk
Filipa	Sousa	Edinburgh Napier University	filipahenderson@gmail.com
Pieter	Steketee	Roslin Institute, University of Edinburgh	pieter.steketee@ed.ac.uk
Craig	Stevens	Edinburgh Napier University	c.stevens@napier.ac.uk
Karen	Stevenson	Moredun Research Institute	karen.stevenson@moredun.ac.uk
Alice	Street	School of Social and Political Science, University of Edinburgh	Alice.street@ed.ac.uk
Karolina	Subrtova	School of Biological Sciences, University of Edinburgh	karolina.subrtova@ed.ac.uk
Amy	Sweeny	School of Biological Sciences, University of Edinburgh	a.r.sweeny@ed.ac.uk
Balazs	Szoor	School of Biological Sciences, University of Edinburgh	balazs.szoor@ed.ac.uk
Simon	Talbot	Division of Infection and Pathway Medicine, University of Edinburgh	stalbot@ed.ac.uk
Kate	Templeton	Royal Infirmary of Edinburgh	
Joanne	Thompson	School of Biological Sciences, University of Edinburgh	joanne.thompson@ed.ac.uk
Alison	Tidswell	Roslin Institute, University of Edinburgh	alison.tidswell@ed.ac.uk
Jairo	Tobar	Roslin Institute, University of Edinburgh	jairotobar@gmail.com
Matilda	Toivakka	School of Biological Sciences, University of Edinburgh	matilda.toivakka@ed.ac.uk
Matthew	Turnbull	Roslin Institute, University of Edinburgh	matthew.turnbull@roslin.ed.ac.uk
Ben	Usher	Division of Infection and Pathway Medicine, University of Edinburgh	benblusher1990@hotmail.com

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Bram	van Bunnik	School of Biological Sciences, University of Edinburgh	bram.vanbunnik@ed.ac.uk
Sjaak	van Der Saar	Eurogentec	sj.vandersar@eurogentec.com
Lonneke	Vervelde	Roslin Institute, University of Edinburgh	lonneke.vervelde@roslin.ed.ac.uk
Laura	Veza	Roslin Institute, University of Edinburgh	laura.veza@roslin.ed.ac.uk
Marilena	Vicino	Moredun Research Institute	marilev90@hotmail.it
Prerna	Vohra	Roslin Institute, University of Edinburgh	prerna.vohra@roslin.ed.ac.uk
Christina	Vrettou	Roslin Institute, University of Edinburgh	christina.vrettou@ed.ac.uk
David	Walker	Roslin Institute, University of Edinburgh	walker.david@live.co.uk
Edward	Wallace	School of Biological Sciences, University of Edinburgh	ewallac2@inf.ed.ac.uk
Julie	Wallis	School of Biological Sciences, University of Edinburgh	Julie.Wallis@ed.ac.uk
Rebecca	Watson	School of Biological Sciences, University of Edinburgh	rebecca.watson@ed.ac.uk
Samir	Watson	Centre for Inflammation Research, University of Edinburgh	s1352484@sms.ed.ac.uk
Sean	Wattegedera	Moredun Research Institute	sean.wattegedera@moredun.ac.uk
Agata	Wawarczyk	Roslin Institute, University of Edinburgh	wawarczyk.agata@gmail.com
Bryan	Wee	Roslin Institute, University of Edinburgh	b.wee@ed.ac.uk
Sue	Welburn	Division of Infection and Pathway Medicine, University of Edinburgh	Sue.welburn@ed.ac.uk
Moira	Whyte	Centre for Inflammation Research, University of Edinburgh	
Hazel	Wilkie	Roslin Institute, University of Edinburgh	hazel.wilkie@roslin.ed.ac.uk
Samantha	Wilkinson	Roslin Institute, University of Edinburgh	samantha.wilkinson@roslin.ed.ac.uk
Jeroen	Witteveldt	School of Biological Sciences, University of Edinburgh	jeroen.witteveldt@ed.ac.uk
Mark	Woolhouse	Centre for Population Health Sciences, University of Edinburgh	mark.woolhouse@ed.ac.uk
Sisi	Wu	Division of Infection and Pathway Medicine, University of Edinburgh	s1425256@sms.ed.ac.uk
Zhiguang	Wu	Roslin Institute, University of Edinburgh	zhiguang.wu@roslin.ed.ac.uk
Nurhamimah	Zainal	Roslin Institute, University of Edinburgh	Nurhamimah.Zainal-Abidin@roslin.ed.ac.uk
Clara	Zifko	Roslin Institute, University of Edinburgh	Clara.Zifko@roslin.ed.ac.uk

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