

Publications by members of Edinburgh Infectious Diseases in 2017

1. Abkalo HM, Martinelli A, Inoue M, Ramaprasad A, Xangsayarath P, Gitaka J, Tang J, Yahata K, Zoungrana A, Mitaka H, et al.: **Rapid identification of genes controlling virulence and immunity in malaria parasites.** *PLoS Pathog* 2017, **13**:e1006447.
2. Acup C, Bardosh KL, Picozzi K, Waiswa C, Welburn SC: **Factors influencing passive surveillance for *T. b. rhodesiense* human african trypanosomiasis in Uganda.** *Acta Trop* 2017, **165**:230-239.
3. Akram KM, Moyo NA, Leeming GH, Bingle L, Jasim S, Hussain S, Schorlemmer A, Kipar A, Digard P, Tripp RA, et al.: **An innate defense peptide BP1FA1/SPLUNC1 restricts influenza A virus infection.** *Mucosal Immunol* 2017, **1**:71-81.
4. Alexander KA, Raggatt LJ, Millard S, Batoon L, Chiu-Ku Wu A, Chang MK, Hume DA, Pettit AR: **Resting and injury-induced inflamed periosteum contain multiple macrophage subsets that are located at sites of bone growth and regeneration.** *Immunol Cell Biol* 2017, **95**:7-16.
5. Almine JF, O'Hare CA, Dunphy G, Haga IR, Naik RJ, Atri A, Connolly DJ, Taylor J, Kelsall IR, Bowie AG, et al.: **IFI16 and cGAS cooperate in the activation of STING during DNA sensing in human keratinocytes.** *Nat Commun* 2017, **8**:14392.
6. Amorim IS, Graham LC, Carter RN, Morton NM, Hammachi F, Kunath T, Pennetta G, Carpanini SM, Manson JC, Lamont DJ, et al.: **Sideroflexin 3 is an alpha-synuclein-dependent mitochondrial protein that regulates synaptic morphology.** *J Cell Sci* 2017, **130**:325-331.
7. Anderson RE, Grant L: **What is the value of palliative care provision in low-resource settings?** *BMJ Glob Health* 2017, **2**:e000139.
8. Andrews CP, Kruuk LE, Smiseth PT: **Evolution of elaborate parental care: phenotypic and genetic correlations between parent and offspring traits.** *Behav Ecol* 2017, **28**:39-48.
9. Araujo D, Shtenberg M, Aliberti S, Goeminne PC, Hill AT, Fardon T, Obradovic D, Dimakou K, Polverino E, De Soyza A, et al.: **Standardised classification of the aetiology of bronchiectasis using an objective algorithm.** *Eur Respir J* 2017, **50**.
10. Armstrong GM, Maybin JA, Murray AA, Nicol M, Walker C, Saunders PTK, Rossi AG, Critchley HOD: **Endometrial apoptosis and neutrophil infiltration during menstruation exhibits spatial and temporal dynamics that are recapitulated in a mouse model.** *Sci Rep* 2017, **7**:17416.
11. Audzevich T, Bashford-Rogers R, Mabbott NA, Frampton D, Freeman TC, Potocnik A, Kellam P, Gilroy DW: **Pre/pro-B cells generate macrophage populations during homeostasis and inflammation.** *Proc Natl Acad Sci U S A* 2017, **114**:E3954-E3963.
12. Auffret MD, Dewhurst RJ, Duthie CA, Rooke JA, John Wallace R, Freeman TC, Stewart R, Watson M, Roehe R: **The rumen microbiome as a reservoir of antimicrobial resistance and pathogenicity genes is directly affected by diet in beef cattle.** *Microbiome* 2017, **5**:159.
13. Auffret MD, Stewart R, Dewhurst RJ, Duthie CA, Rooke JA, Wallace RJ, Freeman TC, Snelling TJ, Watson M, Roehe R: **Identification, Comparison, and Validation of Robust Rumen Microbial Biomarkers for Methane Emissions Using Diverse Bos Taurus Breeds and Basal Diets.** *Front Microbiol* 2017, **8**:2642.
14. Bacigalupo R, Lindsay D, Edwards G, Fitzgerald JR: **Population Genomics of *Legionella longbeachae* and Hidden Complexities of Infection Source Attribution.** *Emerg Infect Dis* 2017, **23**:750-757.
15. Baele G, Suchard MA, Rambaut A, Lemey P: **Emerging Concepts of Data Integration in Pathogen Phylodynamics.** *Syst Biol* 2017, **66**:e47-e65.
16. Bah SY, Dickinson P, Forster T, Kampmann B, Ghazal P: **Immune oxysterols: Role in mycobacterial infection and inflammation.** *J Steroid Biochem Mol Biol* 2017, **169**:152-163.
17. Baillie JK, Arner E, Daub C, De Hoon M, Itoh M, Kawaji H, Lassmann T, Carninci P, Forrest AR, Hayashizaki Y, et al.: **Analysis of the human monocyte-derived macrophage transcriptome and response to lipopolysaccharide provides new insights into genetic aetiology of inflammatory bowel disease.** *PLoS Genet* 2017, **13**:e1006641.
18. Ballingall KT, Lantier I, Todd H, Lantier F, Rocchi M: **Structural and functional diversity arising from intra- and inter-haplotype combinations of duplicated DQA and B loci within the ovine MHC.** *Immunogenetics* 2017.
19. Balogun EO, Inaoka DK, Shiba T, Tokuoka SM, Tokumasu F, Sakamoto K, Kido Y, Michels PAM, Watanabe YI, Harada S, et al.: **Glycerol kinase of African trypanosomes possesses an intrinsic phosphatase activity.** *Biochim Biophys Acta* 2017, **1861**:2830-2842.
20. Balsells E, Guillot L, Nair H, Kyaw MH: **Serotype distribution of *Streptococcus pneumoniae* causing invasive disease in children in the post-PCV era: A systematic review and meta-analysis.** *PLoS One* 2017, **12**:e0177113.
21. Banos G, Bramis G, Bush SJ, Clark EL, McCulloch MEB, Smith J, Schulze G, Arsenos G, Hume DA, Psifidi A: **The genomic architecture of mastitis resistance in dairy sheep.** *BMC Genomics* 2017, **18**:624.
22. Banos G, Winters M, Mrode R, Mitchell AP, Bishop SC, Woolliams JA, Coffey MP: **Genetic evaluation for bovine tuberculosis resistance in dairy cattle.** *J Dairy Sci* 2017, **100**:1272-1281.

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23. Barbian HJ, Jackson-Jewett R, Brown CS, Bibollet-Ruche F, Learn GH, Decker T, Kreider EF, Li Y, Denny TN, Sharp PM, et al.: **Effective treatment of SIVcpz-induced immunodeficiency in a captive western chimpanzee.** *Retrovirology* 2017, **14**:35.
24. Bardosh KL, Scoones JC, Grace D, Kalema-Zikusoka G, Jones KE, de Balogh K, Waltner-Toews D, Bett B, Welburn SC, Mumford E, et al.: **Engaging research with policy and action: what are the challenges of responding to zoonotic disease in Africa?** *Philos Trans R Soc Lond B Biol Sci* 2017, **372**.
25. Barfoot J, Doherty K, Blackburn CC: **EuroStemCell: A European infrastructure for communication and engagement with stem cell research.** *Semin Cell Dev Biol* 2017, **70**:26-37.
26. Barfoot J, Rosemann A, Blackburn CC: **Special focus issue on regenerative medicine in society: interdisciplinary perspectives (part II) - Foreword.** *Regen Med* 2017, **12**:733-736.
27. Barnett KN, Weller D, Smith S, Orbell S, Vedsted P, Steele RJC, Melia JW, Moss SM, Patnick J, Campbell C: **Understanding of a negative bowel screening result and potential impact on future symptom appraisal and help-seeking behaviour: a focus group study.** *Health Expect* 2017, **20**:584-592.
28. Barth ND, Marwick JA, Vendrell M, Rossi AG, Dransfield I: **The "Phagocytic Synapse" and Clearance of Apoptotic Cells.** *Front Immunol* 2017, **8**:1708.
29. Bartley K, Turnbull F, Wright HW, Huntley JF, Palarea-Albaladejo J, Nath M, Nisbet AJ: **Field evaluation of poultry red mite (*Dermanyssus gallinae*) native and recombinant prototype vaccines.** *Vet Parasitol* 2017, **244**:25-34.
30. Bartley PM, Wilson C, Innes EA, Katzer F: **Detection of Babesia DNA in blood and spleen samples from Eurasian badgers (*Meles meles*) in Scotland.** *Parasitology* 2017, **144**:1203-1210.
31. Benson H, Watterson S, Sharman J, Mpamhanga C, Parton A, Southan C, Harmar A, Ghazal P: **Is systems pharmacology ready to impact upon therapy development? A study on the cholesterol biosynthesis pathway.** *Br J Pharmacol* 2017, **174**:4362-4382.
32. Berto A, Anh PH, Carrique-Mas JJ, Simmonds P, Van Cuong N, Tue NT, Van Dung N, Woolhouse ME, Smith I, Marsh GA, et al.: **Detection of potentially novel paramyxovirus and coronavirus viral RNA in bats and rats in the Mekong Delta region of southern Viet Nam.** *Zoonoses Public Health* 2017, **65**:30-42.
33. Bewley MA, Preston JA, Mohasin M, Marriott HM, Budd RC, Swales J, Collini P, Greaves DR, Craig RW, Brightling CE, et al.: **Impaired Mitochondrial Microbicidal Responses in Chronic Obstructive Pulmonary Disease Macrophages.** *Am J Respir Crit Care Med* 2017, **196**:845-855.
34. Birget PLG, Repton C, O'Donnell AJ, Schneider P, Reece SE: **Phenotypic plasticity in reproductive effort: malaria parasites respond to resource availability.** *Proc Biol Sci* 2017, **284**.
35. Blake RR, Shaw DJ, Culshaw GJ, Martinez-Pereira Y: **Poincare plots as a measure of heart rate variability in healthy dogs.** *J Vet Cardiol* 2017, **S1760-2734**(30149-30142).
36. Borger JG, Morrison VL, Filby A, Garcia C, Uotila LM, Simbari F, Fagerholm SC, Zamoyska R: **Caveolin-1 Influences LFA-1 Redistribution upon TCR Stimulation in CD8 T Cells.** *J Immunol* 2017, **199**:874-884.
37. Borges AH, Hoy J, Florence E, Sedlacek D, Stellbrink HJ, Uzdaviniene V, Tomazic J, Gargalianos-Kakolyris P, Schmid P, Orkin C, et al.: **Antiretrovirals, Fractures, and Osteonecrosis in a Large International HIV Cohort.** *Clin Infect Dis* 2017, **64**:1413-1421.
38. Bosch A, de Steenhuijsen Piters WAA, van Houten MA, Chu M, Biesbroek G, Kool J, Pernet P, de Groot PCM, Eijkemans MJC, Keijser BJF, et al.: **Maturation of the Infant Respiratory Microbiota, Environmental Drivers, and Health Consequences. A Prospective Cohort Study.** *Am J Respir Crit Care Med* 2017, **196**:1582-1590.
39. Boyle A, Hogan K, Manson JC, Diack AB: **Strain Typing of Prion Diseases Using In Vivo Mouse Models.** *Methods Mol Biol* 2017, **1658**:263-283.
40. Bradford BM, Reizis B, Mabbott NA: **Oral Prion Disease Pathogenesis Is Impeded in the Specific Absence of CXCR5-Expressing Dendritic Cells.** *J Virol* 2017, **91**.
41. Bradford BM, Tetlow L, Mabbott NA: **Prion disease pathogenesis in the absence of the commensal microbiota.** *J Gen Virol* 2017, **98**:1943-1952.
42. Brancucci NMB, Gerdt JP, Wang C, De Niz M, Philip N, Adapa SR, Zhang M, Hitz E, Niederwieser I, Boltryk SD, et al.: **Lysophosphatidylcholine Regulates Sexual Stage Differentiation in the Human Malaria Parasite Plasmodium falciparum.** *Cell* 2017, **171**:1532-1544.e1515.
43. Brennan GL, Colegrave N, Collins S: **Evolutionary consequences of multidriver environmental change in an aquatic primary producer.** *Proc Natl Acad Sci U S A* 2017, **114**:9930-9935.
44. Burkard C, Lillico SG, Reid E, Jackson B, Mileham AJ, Ait-Ali T, Whitelaw CB, Archibald AL: **Precision engineering for PRRSV resistance in pigs: Macrophages from genome edited pigs lacking CD163 SRCR5 domain are fully resistant to both PRRSV genotypes while maintaining biological function.** *PLoS Pathog* 2017, **13**:e1006206.

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45. Burlacu E, Lackmann F, Aguilar LC, Belikov S, Nues RV, Trahan C, Hector RD, Dominelli-Whiteley N, Cockcroft SL, Wieslander L, et al.: **High-throughput RNA structure probing reveals critical folding events during early 60S ribosome assembly in yeast.** *Nat Commun* 2017, **8**:714.
46. Bush SJ, McCulloch MEB, Summers KM, Hume DA, Clark EL: **Integration of quantitated expression estimates from polyA-selected and rRNA-depleted RNA-seq libraries.** *BMC Bioinformatics* 2017, **18**:301.
47. Calanzani N, Cavers D, Vojt G, Orbell S, Steele RJC, Brownlee L, Smith S, Patnick J, Weller D, Campbell C: **Is an opportunistic primary care-based intervention for non-responders to bowel screening feasible and acceptable? A mixed-methods feasibility study in Scotland.** *BMJ Open* 2017, **7**:e016307.
48. Calanzani N, Weller D, Campbell C: **The characteristics of national health initiatives promoting earlier cancer diagnosis among adult populations: a systematic review protocol.** *BMJ Open* 2017, **7**:e015922.
49. Cameron RL, Kavanagh K, Cameron Watt D, Robertson C, Cuschieri K, Ahmed S, Pollock KG: **The impact of bivalent HPV vaccine on cervical intraepithelial neoplasia by deprivation in Scotland: reducing the gap.** *J Epidemiol Community Health* 2017, **71**:954-960.
50. Campana L, Starkey Lewis PJ, Pellicoro A, Aucott RL, Man J, O'Duibhir E, Mok SE, Ferreira-Gonzalez S, Livingstone E, Greenhalgh SN, et al.: **The STAT3-IL-10-IL-6 Pathway Is a Novel Regulator of Macrophage Efferocytosis and Phenotypic Conversion in Sterile Liver Injury.** *J Immunol* 2017, **200**:1169-1187.
51. Carmona-Antonanzas G, Bekaert M, Humble JL, Boyd S, Roy W, Bassett DI, Houston RD, Gharbi K, Bron JE, Sturm A: **Maternal inheritance of deltamethrin resistance in the salmon louse Lepeophtheirus salmonis (Kroyer) is associated with unique mtDNA haplotypes.** *PLoS One* 2017, **12**:e0180625.
52. Carpanini SM, Wishart TM, Gillingwater TH, Manson JC, Summers KM: **Analysis of gene expression in the nervous system identifies key genes and novel candidates for health and disease.** *Neurogenetics* 2017, **18**:81-95.
53. Cartlidge MK, Hill AT: **Inhaled or nebulised ciprofloxacin for the maintenance treatment of bronchiectasis.** *Expert Opin Investig Drugs* 2017, **26**:1091-1097.
54. Carvalho I, Campo RD, Sousa M, Silva N, Carrola J, Marinho C, Santos T, Carvalho S, Novoa M, Quaresma M, et al.: **Antimicrobial-resistant Escherichia coli and Enterococcus spp. isolated from Miranda donkey (*Equus asinus*): an old problem from a new source with a different approach.** *J Med Microbiol* 2017, **66**:191-202.
55. Cassady-Cain RL, Blackburn EA, Bell CR, Elshina E, Hope JC, Stevens MP: **Inhibition of Antigen-Specific and Nonspecific Stimulation of Bovine T and B Cells by Lymphostatin from Attaching and Effacing Escherichia coli.** *Infect Immun* 2017, **85**.
56. Castle AR, Gill AC: **Physiological Functions of the Cellular Prion Protein.** *Front Mol Biosci* 2017, **4**:19.
57. Castle PE, Murokora D, Perez C, Alvarez M, Quek SC, Campbell C: **Treatment of cervical intraepithelial lesions.** *Int J Gynaecol Obstet* 2017, **138 Suppl 1**:20-25.
58. Cavers D, Cunningham-Burley S, Watson E, Banks E, Campbell C: **Experience of living with cancer and comorbid illness: protocol for a qualitative systematic review.** *BMJ Open* 2017, **7**:e013383.
59. Chakraborty P, Vervelde L, Dalziel RG, Wasson PS, Nair V, Dutia BM, Kaiser P: **Marek's disease virus infection of phagocytes: a de novo in vitro infection model.** *J Gen Virol* 2017, **98**:1080-1088.
60. Chan KY, Li X, Chen W, Song P, Wong NWK, Poon AN, Jian W, Soyiri IN, Cousins S, Adeloye D, et al.: **Prevalence of chronic obstructive pulmonary disease (COPD) in China in 1990 and 2010.** *J Glob Health* 2017, **7**:020704.
61. Chan M, Park JJ, Shi T, Martinon-Torres F, Bont L, Nair H: **The burden of respiratory syncytial virus (RSV) associated acute lower respiratory infections in children with Down syndrome: A systematic review and meta-analysis.** *J Glob Health* 2017, **7**:020413.
62. Charlier C, Johannessen I, Mackintosh CL, Wilks D, Cauda R, Wolf FI, Le Jeunne C: **International infectious diseases teaching to undergraduate medical students: A successful European collaborative experience.** *Med Teach* 2017, **39**:981-986.
63. Charlier J, Thamsborg SM, Bartley DJ, Skuce PJ, Kenyon F, Geurden T, Hoste H, Williams AR, Sotiraki S, Hoglund J, et al.: **Mind the gaps in research on the control of gastrointestinal nematodes of farmed ruminants and pigs.** *Transbound Emerg Dis* 2017.
64. Chen LA, Fawcett TN: **Service evaluation: A grey area of research?** *Nurs Ethics* 2017:969733017742961.
65. Chen X, Liu S, Deme B, Cristiglio V, Marquardt D, Weller R, Rao P, Wang Y, Bradshaw J: **Efficient internalization of TAT peptide in zwitterionic DOPC phospholipid membrane revealed by neutron diffraction.** *Biochim Biophys Acta* 2017, **1859**:910-916.
66. Cherif MK, Ouedraogo O, Sanou GS, Diarra A, Ouedraogo A, Tiono A, Cavanagh DR, Michael T, Konate AT, Watson NL, et al.: **Antibody responses to *P. falciparum* blood stage antigens and incidence of clinical malaria in children living in endemic area in Burkina Faso.** *BMC Res Notes* 2017, **10**:472.
67. Choudhury D, Tanner MG, McAughtrie S, Yu F, Mills B, Choudhary TR, Seth S, Craven TH, Stone JM, Mati IK, et al.: **Endoscopic sensing of alveolar pH.** *Biomed Opt Express* 2017, **8**:243-259.
68. Choudhury NR, Heikel G, Trubitsyna M, Kubik P, Nowak JS, Webb S, Granneman S, Spanos C, Rappaport J, Castello A, et al.: **RNA-binding activity of TRIM25 is mediated by its PRY/SPRY domain and is required for ubiquitination.** *BMC Biol* 2017, **15**:105.

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69. Clark EL, Bush SJ, McCulloch MEB, Farquhar IL, Young R, Lefevre L, Pridans C, Tsang HG, Wu C, Afrasiabi C, et al.: **A high resolution atlas of gene expression in the domestic sheep (*Ovis aries*)**. *PLoS Genet* 2017, **13**:e1006997.
70. Clark J, Garbutt JS, McNally L, Little TJ: **Disease spread in age structured populations with maternal age effects**. *Ecol Lett* 2017, **20**:445-451.
71. Clarke F, Jordan CK, Gutierrez-Martinez E, Bibby JA, Sanchez-Blanco C, Cornish GH, Dai X, Rawlings DJ, Zamoyska R, Guermonprez P, et al.: **Protein tyrosine phosphatase PTPN22 is dispensable for dendritic cell antigen processing and promotion of T-cell activation by dendritic cells**. *PLoS One* 2017, **12**:e0186625.
72. Clavadetscher J, Indigo E, Chankeshwara SV, Lilienkampf A, Bradley M: **In-Cell Dual Drug Synthesis by Cancer-Targeting Palladium Catalysts**. *Angew Chem Int Ed Engl* 2017, **56**:6864-6868.
73. Claycomb J, Abreu-Goodger C, Buck AH: **RNA-mediated communication between helminths and their hosts: The missing links**. *RNA Biol* 2017, **14**:436-441.
74. Clinton C, Sridhar D: **Who pays for cooperation in global health? A comparative analysis of WHO, the World Bank, the Global Fund to Fight HIV/AIDS, Tuberculosis and Malaria, and Gavi, the Vaccine Alliance**. *Lancet* 2017, **390**:324-332.
75. Coakley CM, Nestoros E, Little TJ: **Testing hypotheses for maternal effects in *Daphnia magna***. *J Evol Biol* 2017, **31**:31(32):211-216.
76. Coakley G, McCaskill JL, Borger JG, Simbari F, Robertson E, Millar M, Harcus Y, McSorley HJ, Maizels RM, Buck AH: **Extracellular Vesicles from a Helminth Parasite Suppress Macrophage Activation and Constitute an Effective Vaccine for Protective Immunity**. *Cell Rep* 2017, **19**:1545-1557.
77. Cohrs RJ, Lee KS, Beach A, Sanford B, Baird NL, Como C, Graybill C, Jones D, Tekeste E, Ballard M, et al.: **Targeted Genome Sequencing Reveals Varicella-Zoster Virus Open Reading Frame 12 Deletion**. *J Virol* 2017, **91**.
78. Colegrave N, Ruxton GD: **Using Biological Insight and Pragmatism When Thinking about Pseudoreplication**. *Trends Ecol Evol* 2017, **33**:28-35.
79. Colegrave N, Ruxton GD: **Statistical model specification and power: recommendations on the use of test-qualified pooling in analysis of experimental data**. *Proc Biol Sci* 2017, **284**.
80. Conner WR, Blaxter ML, Anfora G, Ometto L, Rota-Stabelli O, Turelli M: **Genome comparisons indicate recent transfer of wRi-like Wolbachia between sister species *Drosophila suzukii* and *D. subpulchrella***. *Ecol Evol* 2017, **7**:9391-9404.
81. Cook EA, de Glanville WA, Thomas LF, Kariuki S, Bronsvoort BM, Fevre EM: **Working conditions and public health risks in slaughterhouses in western Kenya**. *BMC Public Health* 2017, **17**:14.
82. Cook EA, de Glanville WA, Thomas LF, Kariuki S, Bronsvoort BM, Fevre EM: **Risk factors for leptospirosis seropositivity in slaughterhouse workers in western Kenya**. *Occup Environ Med* 2017, **74**:357-365.
83. Cook EAJ, Grossi-Soyster EN, de Glanville WA, Thomas LF, Kariuki S, Bronsvoort BMC, Wamae CN, LaBeaud AD, Fevre EM: **The sero-epidemiology of Rift Valley fever in people in the Lake Victoria Basin of western Kenya**. *PLoS Negl Trop Dis* 2017, **11**:e0005731.
84. Corripio-Miyar Y, Mellanby RJ, Morrison K, McNeilly TN: **1,25-Dihydroxyvitamin D3 modulates the phenotype and function of Monocyte derived dendritic cells in cattle**. *BMC Vet Res* 2017, **13**:390.
85. Cossic BG, Adjahoutonon B, Gloaguen P, Dibanganga GL, Maganga G, Leroy P, MacLeod ET, Picozzi K: **Trypanosomiasis challenge estimation using the diminazene aceturate (Berenil) index in Zebu in Gabon**. *Trop Anim Health Prod* 2017, **49**:619-624.
86. Craven TH, Wojcik G, McCoubrey J, Brooks O, Grant E, Reilly J, Laurenson IF, Kefala K, Walsh TS: **Lack of concordance between ECDC and CDC systems for surveillance of ventilator associated pneumonia**. *Intensive Care Med* 2017.
87. Cubie HA, Morton D, Kawonga E, Mautanga M, Mwenitete I, Teakle N, Ngwira B, Walker H, Walker G, Kafwafwa S, et al.: **HPV prevalence in women attending cervical screening in rural Malawi using the cartridge-based Xpert((R)) HPV assay**. *J Clin Virol* 2017, **87**:1-4.
88. Cui J, Fan J, Gerber PF, Biernacka K, Stadejek T, Xiao CT, Oprissnig T: **First identification of porcine parvovirus 6 in Poland**. *Virus Genes* 2017, **53**:100-104.
89. Cybis GB, Sinsheimer JS, Bedford T, Rambaut A, Lemey P, Suchard MA: **Bayesian nonparametric clustering in phylogenetics: modeling antigenic evolution in influenza**. *Stat Med* 2017, **37**:195-206.
90. Dall GF, Tsang STJ, Gwynne PJ, Wilkinson AJ, Simpson A, Breusch SJB, Gallagher MP: **The dissolvable bead: A novel in vitro biofilm model for evaluating antimicrobial resistance**. *J Microbiol Methods* 2017, **142**:46-51.
91. Dantoft W, Martinez-Vicente P, Jafali J, Perez-Martinez L, Martin K, Kotzamanis K, Craigon M, Auer M, Young NT, Walsh P, et al.: **Genomic Programming of Human Neonatal Dendritic Cells in Congenital Systemic and In Vitro Cytomegalovirus Infection Reveal Plastic and Robust Immune Pathway Biology Responses**. *Front Immunol* 2017, **8**:1146.
92. Davies P, Remnant JG, Green MJ, Gascoigne E, Gibbon N, Hyde R, Porteous JR, Schubert K, Lovatt F, Corbishley A: **Quantitative analysis of antibiotic usage in British sheep flocks**. *Vet Rec* 2017, **181**:511.

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93. de Almeida L, Terumi Fujimura A, Del Cistia ML, Fonseca-Santos B, Braga Imamura K, Michels PAM, Chorilli M, Graminha MAS: **Nanotechnological Strategies for Treatment of Leishmaniasis--A Review.** *J Biomed Nanotechnol* 2017, **13**:117-133.
94. De Soyza A, McDonnell MJ, Goeminne PC, Aliberti S, Lonni S, Davison J, Dupont LJ, Fardon TC, Rutherford RM, Hill AT, et al.: **Bronchiectasis Rheumatoid Overlap Syndrome Is an Independent Risk Factor for Mortality in Patients With Bronchiectasis: A Multicenter Cohort Study.** *Chest* 2017, **151**:1247-1254.
95. Denholm SJ, McNeilly TN, Banos G, Coffey MP, Russell GC, Bagnall A, Mitchell MC, Wall E: **Estimating genetic and phenotypic parameters of cellular immune-associated traits in dairy cows.** *J Dairy Sci* 2017, **100**:2850-2862.
96. Di Minno G, Navarro D, Perno CF, Canaro M, Gurtler L, Ironside JW, Eichler H, Tiede A: **Pathogen reduction/inactivation of products for the treatment of bleeding disorders: what are the processes and what should we say to patients?** *Ann Hematol* 2017, **96**:1253-1270.
97. Diack AB, Alibhai JD, Manson JC: **Gene Targeted Transgenic Mouse Models in Prion Research.** *Prog Mol Biol Transl Sci* 2017, **150**:157-179.
98. Diack AB, Will RG, Manson JC: **Public health risks from subclinical variant CJD.** *PLoS Pathog* 2017, **13**:e1006642.
99. Dickinson RS, Murphy F, Doherty C, Williams S, Mirchandani A, Wilson J, Scotti JS, Preston G, Schofield CJ, Whyte MKB, et al.: **Pseudomonas expression of an oxygen sensing prolyl hydroxylase homologue regulates neutrophil host responses in vitro and in vivo.** *Wellcome Open Res* 2017, **2**:104.
100. Dockrell DH: **Facing new challenges to promote long-term health for people living with HIV.** *Curr Opin Infect Dis* 2017, **30**:1-3.
101. Donnelly MC, Imlach SN, Abravanel F, Ramalingam S, Johannessen I, Petrik J, Fraser AR, Campbell JD, Bramley P, Dalton HR, et al.: **Sofosbuvir and Daclatasvir Anti-Viral Therapy Fails to Clear HEV Viremia and Restore Reactive T Cells in a HEV/HCV Co-Infected Liver Transplant Recipient.** *Gastroenterology* 2017, **152**:300-301.
102. Dorward DA, Felton JM, Robb CT, Craven T, Kipari T, Walsh TS, Haslett C, Kefala K, Rossi AG, Lucas CD: **The cyclin-dependent kinase inhibitor AT7519 accelerates neutrophil apoptosis in sepsis-related acute respiratory distress syndrome.** *Thorax* 2017, **72**:182-185.
103. Dorward DA, Lucas CD, Doherty MK, Chapman GB, Scholefield EJ, Conway Morris A, Felton JM, Kipari T, Humphries DC, Robb CT, et al.: **Novel role for endogenous mitochondrial formylated peptide-driven formyl peptide receptor 1 signalling in acute respiratory distress syndrome.** *Thorax* 2017, **72**:928-936.
104. Downing A, Morris EJ, Corrigan N, Sebag-Montefiore D, Finan PJ, Thomas JD, Chapman M, Hamilton R, Campbell H, Cameron D, et al.: **High hospital research participation and improved colorectal cancer survival outcomes: a population-based study.** *Gut* 2017, **66**:89-96.
105. Ducrotoy MJ, Revie CW, Shaw AP, Musa UB, Bertu WJ, Gusi AM, Ocholi RA, Majekodunmi AO, Welburn SC: **Wealth, household heterogeneity and livelihood diversification of Fulani pastoralists in the Kachia Grazing Reserve, northern Nigeria, during a period of social transition.** *PLoS One* 2017, **12**:e0172866.
106. Dudas G, Carvalho LM, Bedford T, Tatem AJ, Baele G, Faria NR, Park DJ, Ladner JT, Arias A, Asogun D, et al.: **Virus genomes reveal factors that spread and sustained the Ebola epidemic.** *Nature* 2017, **544**:309-315.
107. Edwards MR, Saglani S, Schwarze J, Skevaki C, Smith JA, Ainsworth B, Almond M, Andreacos E, Belvisi MG, Chung KF, et al.: **Addressing unmet needs in understanding asthma mechanisms: From the European Asthma Research and Innovation Partnership (EARIP) Work Package (WP)2 collaborators.** *Eur Respir J* 2017, **49**.
108. Ekstrom AG, Kelly V, Marles-Wright J, Cockcroft SL, Campopiano DJ: **Structural evidence for the covalent modification of FabH by 4,5-dichloro-1,2-dithiol-3-one (HR45).** *Org Biomol Chem* 2017, **15**:6310-6313.
109. El Tawil S, Chohan G, Mackenzie J, Rowe A, Weller B, Will RG, Knight R: **Isolated language impairment as the primary presentation of sporadic Creutzfeldt Jakob Disease.** *Acta Neurol Scand* 2017, **135**:316-323.
110. Erana H, Fernandez-Borges N, Elezgarai SR, Harrathi C, Charco JM, Chianini F, Dagleish MP, Ortega G, Millet O, Castilla J: **In Vitro Approach To Identify Key Amino Acids in Low Susceptibility of Rabbit Prion Protein to Misfolding.** *J Virol* 2017, **91**.
111. Ercan A, Kohrt WM, Cui J, Deane KD, Pezer M, Yu EW, Hausmann JS, Campbell H, Kaiser UB, Rudd PM, et al.: **Estrogens regulate glycosylation of IgG in women and men.** *JCI Insight* 2017, **2**:e89703.
112. Esteban-Ballesteros M, Rojo-Vazquez FA, Skuce PJ, Melville L, Gonzalez-Lanza C, Martinez-Valladares M: **Quantification of resistant alleles in the beta-tubulin gene of field strains of gastrointestinal nematodes and their relation with the faecal egg count reduction test.** *BMC Vet Res* 2017, **13**:71.
113. Eze P, Balsells E, Kyaw MH, Nair H: **Risk factors for Clostridium difficile infections - an overview of the evidence base and challenges in data synthesis.** *J Glob Health* 2017, **7**:010417.
114. Faluyi OO, Fitch P, Howie SEM: **An increased CD25-positive intestinal regulatory T-lymphocyte population is dependent on Cox-2 activity in the Apc Min/+ model.** *Clin Exp Immunol* 2017, **191**:32-41.
115. Fancy NN, Bahlmann AK, Loake GJ: **Nitric oxide function in plant abiotic stress.** *Plant Cell Environ* 2017, **40**:462-472.

116. Faria NR, Quick J, Claro IM, Theze J, de Jesus JG, Giovanetti M, Kraemer MUG, Hill SC, Black A, da Costa AC, et al.: **Establishment and cryptic transmission of Zika virus in Brazil and the Americas.** *Nature* 2017, **546**:406-410.
117. Farrell FD, Gralka M, Hallatschek O, Waclaw B: **Mechanical interactions in bacterial colonies and the surfing probability of beneficial mutations.** *J R Soc Interface* 2017, **14**.
118. Farro G, Stakenborg M, Gomez-Pinilla PJ, Labeeuw E, Goverse G, Giovangilio MD, Stakenborg N, Meroni E, D'Errico F, Elkrim Y, et al.: **CCR2-dependent monocyte-derived macrophages resolve inflammation and restore gut motility in postoperative ileus.** *Gut* 2017, **66**:2098-2109.
119. Fast C, Goldmann W, Berthon P, Tauscher K, Andreoletti O, Lantier I, Rossignol C, Bossers A, Jacobs JG, Hunter N, et al.: **Protecting effect of PrP codons M142 and K222 in goats orally challenged with bovine spongiform encephalopathy prions.** *Vet Res* 2017, **48**:52.
120. Fawcett T: **Further study opens up career opportunities.** *Nurs Stand* 2017, **31**:38-39.
121. Fell DB, Azziz-Baumgartner E, Baker MG, Batra M, Beaute J, Beutels P, Bhat N, Bhutta ZA, Cohen C, De Mucio B, et al.: **Influenza epidemiology and immunization during pregnancy: Final report of a World Health Organization working group.** *Vaccine* 2017, **35**:5738-5750.
122. Feng X, Wang G, Neumann K, Yao W, Ding L, Li S, Sheng Y, Jiang Y, Bradley M, Zhang R: **Synthesis and characterization of biodegradable poly(ether-ester) urethane acrylates for controlled drug release.** *Mater Sci Eng C Mater Biol Appl* 2017, **74**:270-278.
123. Fernandez N, Cordiner RA, Young RS, Hug N, Macias S, Caceres JF: **Genetic variation and RNA structure regulate microRNA biogenesis.** *Nat Commun* 2017, **8**:15114.
124. Fevre EM, de Glanville WA, Thomas LF, Cook EAJ, Kariuki S, Wamae CN: **An integrated study of human and animal infectious disease in the Lake Victoria crescent small-holder crop-livestock production system, Kenya.** *BMC Infect Dis* 2017, **17**:457.
125. Fiegna C, Clarke CL, Shaw DJ, Baily JL, Clare FC, Gray A, Garner TW, Meredith AL: **Pathological and phylogenetic characterization of *Amphibiothecum* sp. infection in an isolated amphibian (*Lissotriton helveticus*) population on the island of Rum (Scotland).** *Parasitology* 2017, **144**:484-496.
126. Fontanella E, Ma Z, Zhang Y, de Castro AM, Shen H, Halbur PG, Opriessnig T: **An interferon inducing porcine reproductive and respiratory syndrome virus vaccine candidate elicits protection against challenge with the heterologous virulent type 2 strain VR-2385 in pigs.** *Vaccine* 2017, **35**:125-131.
127. Froy H, Bird EJ, Wilbourn RV, Fairlie J, Underwood SL, Salvo-Chirnside E, Pilkington JG, Berenos C, Pemberton JM, Nussey DH: **No evidence for parental age effects on offspring leukocyte telomere length in free-living Soay sheep.** *Sci Rep* 2017, **7**:9991.
128. Froy H, Lewis S, Nussey DH, Wood AG, Phillips RA: **Contrasting drivers of reproductive ageing in albatrosses.** *J Anim Ecol* 2017, **86**:1022-1032.
129. Frungillo L, Spoel SH: **Modulating the Modulator: Regulation of Protein Methylation by Nitric Oxide.** *Mol Cell* 2017, **67**:535-537.
130. Fyfe J, Picozzi K, Waiswa C, Bardosh KL, Welburn SC: **Impact of mass chemotherapy in domestic livestock for control of zoonotic *T. b. rhodesiense* human African trypanosomiasis in Eastern Uganda.** *Acta Trop* 2017, **165**:216-229.
131. Gally DL, Stevens MP: **Microbe Profile: Escherichia coli O157 : H7 - notorious relative of the microbiologist's workhorse.** *Microbiology* 2017, **163**:1-3.
132. Garcia JL, Burrells A, Bartley PM, Bartley K, Innes EA, Katzer F: **The use of ELISA, nPCR and qPCR for diagnosis of ocular toxoplasmosis in experimentally infected pigs.** *Res Vet Sci* 2017, **115**:490-495.
133. Garnier R, Bento AI, Hansen C, Pilkington JG, Pemberton JM, Graham AL: **Physiological proteins in resource-limited herbivores experiencing a population die-off.** *Naturwissenschaften* 2017, **104**:68.
134. Garnier R, Cheung CK, Watt KA, Pilkington JG, Pemberton JM, Graham AL: **Joint associations of blood plasma proteins with overwinter survival of a large mammal.** *Ecol Lett* 2017, **20**:175-183.
135. Georgiou C, McNae I, Wear M, Ioannidis H, Michel J, Walkinshaw M: **Pushing the Limits of Detection of Weak Binding Using Fragment-Based Drug Discovery: Identification of New Cyclophilin Binders.** *J Mol Biol* 2017, **429**:2556-2570.
136. Gerber PF, Dawson L, Strugnell B, Burgess R, Brown H, Opriessnig T: **Using oral fluids samples for indirect influenza A virus surveillance in farmed UK pigs.** *Vet Med Sci* 2017, **3**:3-12.
137. Giakoumelou S, Wheelhouse N, Brown J, Wade J, Simitsidellis I, Gibson D, Saunders PTK, Horner P, Entrican G, Howie SEM, et al.: **Chlamydia trachomatis infection of human endometrial stromal cells induces defective decidualisation and chemokine release.** *Sci Rep* 2017, **7**:2001.
138. Gillan V, Maitland K, Laing R, Gu H, Marks ND, Winter AD, Bartley D, Morrison A, Skuce PJ, Rezansoff AM, et al.: **Increased Expression of a MicroRNA Correlates with Anthelmintic Resistance in Parasitic Nematodes.** *Front Cell Infect Microbiol* 2017, **7**:452.

Edinburgh Infectious Diseases

Leading infectious disease research and training

139. Giotti B, Joshi A, Freeman TC: **Meta-analysis reveals conserved cell cycle transcriptional network across multiple human cell types.** *BMC Genomics* 2017, **18**:30.
140. Glendinning L, Wright S, Tenant P, Gill AC, Collie D, McLachlan G: **Microbiota in Exhaled Breath Condensate and the Lung.** *Appl Environ Microbiol* 2017, **83**.
141. Goodman G, Meredith A, Girling S, Rosell F, Campbell-Palmer R: **Outcomes of a 'One Health' Monitoring Approach to a Five-Year Beaver (*Castor fiber*) Reintroduction Trial in Scotland.** *Ecohealth* 2017, **14**:139-143.
142. Gossner A, Watkins C, Chianini F, Hopkins J: **Pathways and Genes Associated with Immune Dysfunction in Sheep Paratuberculosis.** *Sci Rep* 2017, **7**:46695.
143. Graff M, Scott RA, Justice AE, Young KL, Feitosa MF, Barata L, Winkler TW, Chu AY, Mahajan A, Hadley D, et al.: **Genome-wide physical activity interactions in adiposity - A meta-analysis of 200,452 adults.** *PLoS Genet* 2017, **13**:e1006528.
144. Graham H, Tosif S, Gray A, Qazi S, Campbell H, Peel D, McPake B, Duke T: **Providing oxygen to children in hospitals: a realist review.** *Bull World Health Organ* 2017, **95**:288-302.
145. Granroth-Wilding HM, Daunt F, Cunningham EJ, Burthe SJ: **Between-individual variation in nematode burden among juveniles in a wild host.** *Parasitology* 2017, **144**:248-258.
146. Grant L, Downing J, Luyirika E, Murphy M, Namukwaya L, Kiyange F, Atieno M, Kemigisha-Ssali E, Hunt J, Snell K, et al.: **Integrating palliative care into national health systems in Africa: a multi-country intervention study.** *J Glob Health* 2017, **7**:010419.
147. Gray GA, Gray NK: **A tail of translational regulation.** *Elife* 2017, **6**.
148. Greaves E, Critchley HOD, Horne AW, Saunders PTK: **Relevant human tissue resources and laboratory models for use in endometriosis research.** *Acta Obstet Gynecol Scand* 2017, **96**:644-658.
149. Greaves E, Horne AW, Jerina H, Mikolajczak M, Hiltferty L, Mitchell R, Fleetwood-Walker SM, Saunders PT: **EP2 receptor antagonism reduces peripheral and central hyperalgesia in a preclinical mouse model of endometriosis.** *Sci Rep* 2017, **7**:44169.
150. Gripper LB, Welburn SC: **Neurocysticercosis infection and disease-A review.** *Acta Trop* 2017, **166**:218-224.
151. Gripper LB, Welburn SC: **The causal relationship between neurocysticercosis infection and the development of epilepsy - a systematic review.** *Infect Dis Poverty* 2017, **6**:31.
152. Grubaugh ND, Ladner JT, Kraemer MUG, Dudas G, Tan AL, Gangavarapu K, Wiley MR, White S, Theze J, Magnani DM, et al.: **Genomic epidemiology reveals multiple introductions of Zika virus into the United States.** *Nature* 2017, **546**:401-405.
153. Gu HY, Marks ND, Winter AD, Weir W, Tzelos T, McNeilly TN, Britton C, Devaney E: **Conservation of a microRNA cluster in parasitic nematodes and profiling of miRNAs in excretory-secretory products and microvesicles of *Haemonchus contortus*.** *PLoS Negl Trop Dis* 2017, **11**:e0006056.
154. Gual I, Bartley PM, Katzer F, Innes EA, Canton GJ, Moore DP: **Molecular confirmation of *Sarcocystis gigantea* in a naturally infected sheep in Argentina: A case report.** *Vet Parasitol* 2017, **248**:25-27.
155. Gupta N, Noel R, Goudet A, Hinsinger K, Michau A, Pons V, Abdelkafi H, Secher T, Shima A, Shtanko O, et al.: **Inhibitors of retrograde trafficking active against ricin and Shiga toxins also protect cells from several viruses, Leishmania and Chlamydiales.** *Chem Biol Interact* 2017, **267**:96-103.
156. Gupta V, Stewart CO, Rund SSC, Monteith K, Vale PF: **Costs and benefits of sublethal *Drosophila C* virus infection.** *J Evol Biol* 2017, **30**:1325-1335.
157. Gupta V, Vale PF: **Nonlinear disease tolerance curves reveal distinct components of host responses to viral infection.** *R Soc Open Sci* 2017, **4**:170342.
158. Gupta V, Vasanthakrishnan RB, Siva-Jothy J, Monteith KM, Brown SP, Vale PF: **The route of infection determines Wolbachia antibacterial protection in *Drosophila*.** *Proc Biol Sci* 2017, **284**.
159. Gutierrez AP, Turner F, Gharbi K, Talbot R, Lowe NR, Penalosa C, McCullough M, Prodohl PA, Bean TP, Houston RD: **Development of a Medium Density Combined-Species SNP Array for Pacific and European Oysters (*Crassostrea gigas* and *Ostrea edulis*).** *G3 (Bethesda)* 2017, **7**:2209-2218.
160. Guzniczak E, Mohammad Zadeh M, Dempsey F, Jimenez M, Bock H, Whyte G, Willoughby N, Bridle H: **High-throughput assessment of mechanical properties of stem cell derived red blood cells, toward cellular downstream processing.** *Sci Rep* 2017, **7**:14457.
161. Haanstra JR, Gerding A, Dolga AM, Sorgdrager FJ, Buist-Homan M, du Toit F, Faber KN, Holzhutter HG, Szoor B, Matthews KR, et al.: **Targeting pathogen metabolism without collateral damage to the host.** *Sci Rep* 2017, **7**:40406.
162. Haertel S, Alzuheir I, Busalt F, Waters V, Kaiser P, Kaufer BB: **Identification of the Receptor and Cellular Ortholog of the Marek's Disease Virus (MDV) CXC Chemokine.** *Front Microbiol* 2017, **8**:2543.
163. Hamill L, Picozzi K, Fyfe J, von Wissmann B, Wastling S, Wardrop N, Selby R, Acup CA, Bardosh KL, Muhangizi D, et al.: **Evaluating the impact of targeting livestock for the prevention of human and animal trypanosomiasis, at village level, in districts newly affected with *T. b. rhodesiense* in Uganda.** *Infect Dis Poverty* 2017, **6**:16.

Edinburgh Infectious Diseases

Leading infectious disease research and training

164. Hamilton CA, Mahan S, Bell CR, Villarreal-Ramos B, Charleston B, Entrican G, Hope JC: **Frequency and phenotype of natural killer cells and natural killer cell subsets in bovine lymphoid compartments and blood.** *Immunology* 2017, **151**:89-97.
165. Hamilton CM, Kelly PJ, Boey K, Corey TM, Huynh H, Metzler D, Villena I, Su C, Innes EA, Katzer F: **Predominance of atypical genotypes of Toxoplasma gondii in free-roaming chickens in St. Kitts, West Indies.** *Parasit Vectors* 2017, **10**:104.
166. Hanlon P, Daines L, Campbell C, McKinstry B, Weller D, Pinnock H: **Telehealth Interventions to Support Self-Management of Long-Term Conditions: A Systematic Metareview of Diabetes, Heart Failure, Asthma, Chronic Obstructive Pulmonary Disease, and Cancer.** *J Med Internet Res* 2017, **19**:e172.
167. Harijan RK, Kiema TR, Syed SM, Qadir I, Mazet M, Bringaud F, Michels PAM, Wierenga RK: **Crystallographic substrate binding studies of Leishmania mexicana SCP2-thiolase (type-2): unique features of oxyanion hole-1.** *Protein Eng Des Sel* 2017, **30**:225-233.
168. Haworth CS, Banks J, Capstick T, Fisher AJ, Gorsuch T, Laurenson IF, Leitch A, Loebinger MR, Milburn HJ, Nightingale M, et al.: **British Thoracic Society guidelines for the management of non-tuberculous mycobacterial pulmonary disease (NTM-PD).** *Thorax* 2017, **72**:ii1-ii64.
169. Hayward A, Pemberton JM, Berenos C, Wilson AJ, Pilkington JG, Kruuk LEB: **Evidence for Selection-by-Environment but Not Genotype-by-Environment Interactions for Fitness-Related Traits in a Wild Mammal Population.** *Genetics* 2017, **208**:349-364.
170. Hayward AD, Moorad J, Regan CE, Berenos C, Pilkington JG, Pemberton JM, Nussey DH: **Corrigendum to "asynchrony of senescence among phenotypic traits in a wild mammal population" [Exp. Gerontol. 71 (2015) 56-68].** *Exp Gerontol* 2017, **96**:162-163.
171. Heath SE, Knox K, Vale PF, Collins S: **Virus Resistance Is Not Costly in a Marine Alga Evolving under Multiple Environmental Stressors.** *Viruses* 2017, **9**.
172. Hendry M, Pasterfield D, Gollins S, Adams R, Evans M, Fiander A, Robling M, Campbell C, Bekkers MJ, Hiscock J, et al.: **Talking about human papillomavirus and cancer: development of consultation guides through lay and professional stakeholder coproduction using qualitative, quantitative and secondary data.** *BMJ Open* 2017, **7**:e015413.
173. Henricot B, Perez-Sierra A, Armstrong AC, Sharp PM, Green S: **Morphological and Genetic Analyses of the Invasive Forest Pathogen Phytophthora austrocedri Reveal that Two Clonal Lineages Colonized Britain and Argentina from a Common Ancestral Population.** *Phytopathology* 2017, **107**:1532-1540.
174. Henry MK, Tongue SC, Evans J, Webster C, McKI, Morgan M, Willett A, Reeves A, Humphry RW, Gally DL, et al.: **British Escherichia coli O157 in Cattle Study (BECS): to determine the prevalence of E. coli O157 in herds with cattle destined for the food chain.** *Epidemiol Infect* 2017, **145**:3168-3179.
175. Hill AT, Haworth CS, Aliberti S, Barker A, Blasi F, Boersma W, Chalmers JD, De Soyza A, Dimakou K, Elborn JS, et al.: **Pulmonary exacerbation in adults with bronchiectasis: a consensus definition for clinical research.** *Eur Respir J* 2017, **49**.
176. Ho GT, Aird RE, Liu B, Boyapati RK, Kennedy NA, Dorward DA, Noble CL, Shimizu T, Carter RN, Chew ET, et al.: **MDR1 deficiency impairs mitochondrial homeostasis and promotes intestinal inflammation.** *Mucosal Immunol* 2017, **11**:120-130.
177. Holteidahl K, Vedsted P, Borgquist L, Donker GA, Buntinx F, Weller D, Braaten T, Hjertholm P, Mansson J, Strandberg EL, et al.: **Abdominal symptoms in general practice: Frequency, cancer suspicions raised, and actions taken by GPs in six European countries. Cohort study with prospective registration of cancer.** *Heliyon* 2017, **3**:e00328.
178. Hooper KM, Barlow PG, Stevens C, Henderson P: **Inflammatory Bowel Disease Drugs: A Focus on Autophagy.** *J Crohns Colitis* 2017, **11**:118-127.
179. Horne AW, Vincent K, Cregg R, Daniels J: **Is gabapentin effective for women with unexplained chronic pelvic pain?** *Bmj* 2017, **358**:j3520.
180. Horton B, Katzer F, Desmulliez MPY, Bridle HL: **Towards enhanced automated elution systems for waterborne protozoa using megasonic energy.** *J Microbiol Methods* 2017, **145**:28-36.
181. Houdijk JGM, Tolkamp BJ, Rooke JA, Hutchings MR: **Animal health and greenhouse gas intensity: the paradox of periparturient parasitism.** *Int J Parasitol* 2017, **47**:633-641.
182. Hume DA, Wollscheid-Lengeling E, Rojo R, Pridans C: **The evolution of the macrophage-specific enhancer (Fms intronic regulatory element) within the CSF1R locus of vertebrates.** *Sci Rep* 2017, **7**:17115.
183. Huor A, Douet JY, Lacroux C, Lugan S, Tillier C, Aron N, Cassard H, Arnold M, Torres JM, Ironside JW, et al.: **Infectivity in bone marrow from sporadic CJD patients.** *J Pathol* 2017, **243**:273-278.
184. Indrigo E, Clavadetscher J, Chankeshwara SV, Megia-Fernandez A, Lilienkampf A, Bradley M: **Intracellular delivery of a catalytic organometallic complex.** *Chem Commun (Camb)* 2017, **53**:6712-6715.
185. Innes H, McDonald S, Hayes P, Dillon JF, Allen S, Goldberg D, Mills PR, Barclay ST, Wilks D, Valerio H, et al.: **Mortality in hepatitis C patients who achieve a sustained viral response compared to the general population.** *J Hepatol* 2017, **66**:19-27.
186. Ironside JW, Ritchie DL, Head MW: **Prion diseases.** *Handb Clin Neurol* 2017, **145**:393-403.

Edinburgh Infectious Diseases

Leading infectious disease research and training

187. Iyer SS, Bibollet-Ruche F, Sherrill-Mix S, Learn GH, Plenderleith L, Smith AG, Barbian HJ, Russell RM, Gondim MV, Bahari CY, et al.: **Resistance to type 1 interferons is a major determinant of HIV-1 transmission fitness.** *Proc Natl Acad Sci U S A* 2017, **114**:E590-e599.
188. Jack C, Hotchkiss E, Sargison ND, Toma L, Milne C, Bartley DJ: **A quantitative analysis of attitudes and behaviours concerning sustainable parasite control practices from Scottish sheep farmers.** *Prev Vet Med* 2017, **139**:134-145.
189. Jackson-Jones LH, Benezech C: **Control of innate-like B cell location for compartmentalised IgM production.** *Curr Opin Immunol* 2017, **50**:9-13.
190. Jensen K, Gallagher IJ, Johnston N, Welsh M, Skuce R, Williams JL, Glass EJ: **Variation in the early host-pathogen interaction of bovine macrophages with divergent UK Mycobacterium bovis strains.** *Infect Immun* 2017.
191. Johannessen I, Daniel J, Smith DB, Richards J, Imrie L, Rankin A, Willocks LJ, Evans C, Leen C, Gibson P, et al.: **Molecular and Epidemiological Evidence of Patient-to-Patient Hepatitis C virus Transmission in a Scottish Emergency Department.** *J Hosp Infect* 2017.
192. Johansen MV, Welburn SC, Dorni P, Brattig NW: **Control of neglected zoonotic diseases.** *Acta Trop* 2017, **165**:1-2.
193. Johnston CJC, Smyth DJ, Kodali RB, White MPJ, Harcus Y, Filbey KJ, Hewitson JP, Hinck CS, Ivens A, Kemter AM, et al.: **A structurally distinct TGF-beta mimic from an intestinal helminth parasite potently induces regulatory T cells.** *Nat Commun* 2017, **8**:1741.
194. Johnston HJ, Verdon R, Gillies S, Brown DM, Fernandes TF, Henry TB, Rossi AG, Tran L, Tucker C, Tyler CR, et al.: **Adoption of in vitro systems and zebrafish embryos as alternative models for reducing rodent use in assessments of immunological and oxidative stress responses to nanomaterials.** *Crit Rev Toxicol* 2017, **48**:252-271.
195. Joshi PK, Pirastu N, Kentistou KA, Fischer K, Hofer E, Schraut KE, Clark DW, Nutile T, Barnes CLK, Timmers P, et al.: **Genome-wide meta-analysis associates HLA-DQA1/DRB1 and LPA and lifestyle factors with human longevity.** *Nat Commun* 2017, **8**:910.
196. Jubb AW, Boyle S, Hume DA, Bickmore WA: **Glucocorticoid Receptor Binding Induces Rapid and Prolonged Large-Scale Chromatin Decompaction at Multiple Target Loci.** *Cell Rep* 2017, **21**:3022-3031.
197. Kamidi CM, Saarman NP, Dion K, Mireji PO, Ouma C, Murilla G, Aksoy S, Schnaufer A, Caccone A: **Multiple evolutionary origins of Trypanosoma evansi in Kenya.** *PLoS Negl Trop Dis* 2017, **11**:e0005895.
198. Kanguru L, Bikker A, Cavers D, Barnett K, Brewster DH, Weller D, Campbell C: **Pathways to diagnosis of a second primary cancer: protocol for a mixed-methods systematic review.** *BMJ Open* 2017, **7**:e017929.
199. Kannan A, Bhurke A, Sitruk-Ware R, Lalitkumar PG, Gemzell-Danielsson K, Williams ARW, Taylor RN, Bagchi MK, Bagchi IC: **Characterization of Molecular Changes in Endometrium Associated With Chronic Use of Progesterone Receptor Modulators: Ulipristal Acetate Versus Mifepristone.** *Reprod Sci* 2017;1933719117746764.
200. Karagianni AE, Kapetanovic R, Summers KM, McGorum BC, Hume DA, Pirie RS: **Comparative transcriptome analysis of equine alveolar macrophages.** *Equine Vet J* 2017, **49**:375-382.
201. Karuppannan AK, Opriessnig T: **Porcine Circovirus Type 2 (PCV2) Vaccines in the Context of Current Molecular Epidemiology.** *Viruses* 2017, **9**.
202. Kast JI, McFarlane AJ, Globinska A, Sokolowska M, Wawrzyniak P, Sanak M, Schwarze J, Akdis CA, Wanke K: **Respiratory syncytial virus infection influences tight junction integrity.** *Clin Exp Immunol* 2017, **190**:351-359.
203. Kaur S, Raggatt LJ, Batoon L, Hume DA, Levesque JP, Pettit AR: **Role of bone marrow macrophages in controlling homeostasis and repair in bone and bone marrow niches.** *Semin Cell Dev Biol* 2017, **61**:12-21.
204. Kavanagh K, Pollock KG, Cuschieri K, Palmer T, Cameron RL, Watt C, Bhatia R, Moore C, Cubie H, Cruickshank M, et al.: **Changes in the prevalence of human papillomavirus following a national bivalent human papillomavirus vaccination programme in Scotland: a 7-year cross-sectional study.** *Lancet Infect Dis* 2017, **17**:1293-1302.
205. Kelly S, Ivens A, Mott GA, O'Neill E, Emms D, Macleod O, Voorheis P, Tyler K, Clark M, Matthews J, et al.: **An Alternative Strategy for Trypanosome Survival in the Mammalian Bloodstream Revealed through Genome and Transcriptome Analysis of the Ubiquitous Bovine Parasite Trypanosoma (Megatrypanum) theileri.** *Genome Biol Evol* 2017, **9**:2093-2109.
206. Keogh MJ, Wei W, Wilson I, Coxhead J, Ryan S, Rollinson S, Griffin H, Kurzawa-Akanbi M, Santibanez-Koref M, Talbot K, et al.: **Genetic compendium of 1511 human brains available through the UK Medical Research Council Brain Banks Network Resource.** *Genome Res* 2017, **27**:165-173.
207. Kerrin A, Fitch P, Errington C, Kerr D, Waxman L, Riding K, McCormack J, Mehendale F, McSorley H, MacKenzie K, et al.: **Differential lower airway dendritic cell patterns may reveal distinct endotypes of RSV bronchiolitis.** *Thorax* 2017, **72**:620-627.
208. Keser T, Gornik I, Vuckovic F, Selak N, Pavic T, Lukic E, Gudelj I, Gasparovic H, Biocina B, Tilin T, et al.: **Increased plasma N-glycome complexity is associated with higher risk of type 2 diabetes.** *Diabetologia* 2017, **60**:2352-2360.
209. Keuss SE, Ironside JW, O'Riordan J: **Gerstmann-Straussler-Scheinker disease with atypical presentation.** *BMJ Case Rep* 2017, **2017**.

Edinburgh Infectious Diseases

Leading infectious disease research and training

210. Kirin M, Nagy R, MacGillivray TJ, Polasek O, Hayward C, Rudan I, Campbell H, Wild S, Wright AF, Wilson JF, et al.: **Determinants of retinal microvascular features and their relationships in two European populations.** *J Hypertens* 2017, **35**:1646-1659.
211. Kneeshaw S, Keyani R, Delorme-Hinoux V, Imrie L, Loake GJ, Le Bihan T, Reichheld JP, Spoel SH: **Nucleoredoxin guards against oxidative stress by protecting antioxidant enzymes.** *Proc Natl Acad Sci U S A* 2017.
212. Kolbjørnsen O, Bergsøe B, Sveen J, Opriessnig T: **Erysipelothrix rhusiopathiae serotype 5-associated metritis in a Norwegian Red heifer.** *Apmis* 2017.
213. Kolte SW, Larcombe SD, Jadhao SG, Magar SP, Warthi G, Kurkure NV, Glass EJ, Shiels BR: **PCR diagnosis of tick-borne pathogens in Maharashtra state, India indicates fitness cost associated with carrier infections is greater for crossbreed than native cattle breeds.** *PLoS One* 2017, **12**:e0174595.
214. Kontaxi C, Piccardo P, Gill AC: **Lysine-Directed Post-translational Modifications of Tau Protein in Alzheimer's Disease and Related Tauopathies.** *Front Mol Biosci* 2017, **4**:56.
215. Koop G, Vrielink M, Storisteanu DM, Lok LS, Monie T, van Wigcheren G, Raisen C, Ba X, Gleadall N, Hadjirin N, et al.: **Identification of LukPQ, a novel, equid-adapted leukocidin of *Staphylococcus aureus*.** *Sci Rep* 2017, **7**:40660.
216. Kortekaas Krohn I, Shikhagaie MM, Golebski K, Bernink JHJ, Breynaert C, Creyns B, Diamant Z, Fokkens WJ, Gevaert P, Hellings P, et al.: **Emerging roles of innate lymphoid cells in inflammatory diseases: clinical implications.** *Allergy* 2017.
217. Kozielewicz P, Alomar H, Yusof S, Grafton G, Cooper AJ, Curnow SJ, Ironside JW, Pall H, Barnes NM: **N-glycosylation and expression in human tissues of the orphan GPR61 receptor.** *FEBS Open Bio* 2017, **7**:1982-1993.
218. Kraemer S, Bondel KB, Ness RW, Keightley PD, Colegrave N: **Fitness change in relation to mutation number in spontaneous mutation accumulation lines of *Chlamydomonas reinhardtii*.** *Evolution* 2017, **71**:2918-2929.
219. Krejciova Z, Alibhai J, Zhao C, Krencik R, Rzechorzek NM, Ullian EM, Manson J, Ironside JW, Head MW, Chandran S: **Human stem cell-derived astrocytes replicate human prions in a PRNP genotype-dependent manner.** *J Exp Med* 2017, **214**:3481-3495.
220. Kronholm I, Bassett A, Baulcombe D, Collins S: **Epigenetic and Genetic Contributions to Adaptation in *Chlamydomonas*.** *Mol Biol Evol* 2017, **34**:2285-2306.
221. Kuls N, Blissitt KJ, Shaw DJ, Schoffmann G, Clutton RE: **Thermography as an early predictive measurement for evaluating epidural and femoral-sciatic block success in dogs.** *Vet Anaesth Analg* 2017, **44**:1198-1207.
222. Kuo RI, Tseng E, Eory L, Paton IR, Archibald AL, Burt DW: **Normalized long read RNA sequencing in chicken reveals transcriptome complexity similar to human.** *BMC Genomics* 2017, **18**:323.
223. Lachapelle J, Colegrave N, Bell G: **The effect of selection history on extinction risk during severe environmental change.** *J Evol Biol* 2017, **30**:1872-1883.
224. Laetsch DR, Blaxter ML: **KinFin: Software for Taxon-Aware Analysis of Clustered Protein Sequences.** *G3 (Bethesda)* 2017, **7**:3349-3357.
225. Lagger S, Connelly JC, Schweikert G, Webb S, Selfridge J, Ramsahoye BH, Yu M, He C, Sanguinetti G, Sowers LC, et al.: **MeCP2 recognizes cytosine methylated tri-nucleotide and di-nucleotide sequences to tune transcription in the mammalian brain.** *PLoS Genet* 2017, **13**:e1006793.
226. Langat P, Raghwani J, Dudas G, Bowden TA, Edwards S, Gall A, Bedford T, Rambaut A, Daniels RS, Russell CA, et al.: **Genome-wide evolutionary dynamics of influenza B viruses on a global scale.** *PLoS Pathog* 2017, **13**:e1006749.
227. Larralde O, Petrik J: **Phage-displayed peptides that mimic epitopes of hepatitis E virus capsid.** *Med Microbiol Immunol* 2017, **206**:301-309.
228. Lathe R, Haas JG: **Distribution of cellular HSV-1 receptor expression in human brain.** *J Neurovirol* 2017, **23**:376-384.
229. Lauder SN, Tyrrell VJ, Allen-Redpath K, Aldrovandi M, Gray D, Collins P, Jones SA, Taylor PR, O'Donnell V: **Myeloid 12/15-LOX regulates B cell numbers and innate immune antibody levels in vivo.** *Wellcome Open Res* 2017, **2**:1.
230. Le Pendu J, Abrantes J, Bertagnoli S, Guitton JS, Le Gall-Reculé G, Lopes AM, Marchandeau S, Alda F, Almeida T, Celio AP, et al.: **Proposal for a unified classification system and nomenclature of lagoviruses.** *J Gen Virol* 2017, **98**:1658-1666.
231. Lee AM, Wolfe A, Cassidy JP, Mc VM, Moriarty JP, O'Neill R, Fahy C, Connaghan E, Cousens C, Dagleish MP, et al.: **First confirmation by PCR of Jaagsiekte sheep retrovirus in Ireland and prevalence of ovine pulmonary adenocarcinoma in adult sheep at slaughter.** *Ir Vet J* 2017, **70**:33.
232. Lemmers RFH, Vilaj M, Urda D, Agakov F, Simurina M, Klaric L, Rudan I, Campbell H, Hayward C, Wilson JF, et al.: **IgG glycan patterns are associated with type 2 diabetes in independent European populations.** *Biochim Biophys Acta* 2017, **1861**:2240-2249.
233. Lempereur L, Larcombe SD, Durrani Z, Karagenc T, Bilgic HB, Bakirci S, Hacilarlioglu S, Kinnaird J, Thompson J, Weir W, et al.: **Identification of candidate transmission-blocking antigen genes in *Theileria annulata* and related vector-borne apicomplexan parasites.** *BMC Genomics* 2017, **18**:438.
234. Lepore T, Bartley PM, Chianini F, Macrae AI, Innes EA, Katzer F: **Molecular detection of *Sarcocystis lutrae* in the European badger (*Meles meles*) in Scotland.** *Parasitology* 2017, **144**:1426-1432.

235. Li X, Meng X, Timofeeva M, Tzoulaki I, Tsilidis KK, Ioannidis PA, Campbell H, Theodoratou E: **Serum uric acid levels and multiple health outcomes: umbrella review of evidence from observational studies, randomised controlled trials, and Mendelian randomisation studies.** *Bmj* 2017, **357**:j2376.
236. Lightbody KL, Matthews JB, Kemp-Symonds JG, Lambert PA, Austin CJ: **Use of a saliva-based diagnostic test to inform on tapeworm infection in horses in the UK.** *Equine Vet J* 2017, **50**:213-219.
237. Lin YT, Prendergast J, Grey F: **The host ubiquitin-dependent segregase VCP/p97 is required for the onset of human cytomegalovirus replication.** *PLoS Pathog* 2017, **13**:e1006329.
238. Lipworth B, Newton J, Ram B, Small I, Schwarze J: **An algorithm recommendation for the pharmacological management of allergic rhinitis in the UK: a consensus statement from an expert panel.** *NPJ Prim Care Respir Med* 2017, **27**:3.
239. Lisowski ZM, Pirie RS, Blikslager AT, Lefebvre D, Hume DA, Hudson NPH: **An update on equine postoperative ileus: Definitions, pathophysiology and management.** *Equine Vet J* 2017.
240. Liu W, Sherrill-Mix S, Learn GH, Scully EJ, Li Y, Avitto AN, Loy DE, Lauder AP, Sundararaman SA, Plenderleith LJ, et al.: **Wild bonobos host geographically restricted malaria parasites including a putative new *Laverania* species.** *Nat Commun* 2017, **8**:1635.
241. Livingstone M, Wheelhouse N, Ensor H, Rocchi M, Maley S, Aitchison K, Wattegedera S, Wilson K, Sait M, Siarkou V, et al.: **Pathogenic outcome following experimental infection of sheep with *Chlamydia abortus* variant strains LLG and POS.** *PLoS One* 2017, **12**:e0177653.
242. Ljungstrom S, Melville L, Skuce PJ, Hoglund J: **Comparison of Four Diagnostic Methods for Detection and Relative Quantification of *Haemonchus contortus* Eggs in Feces Samples.** *Front Vet Sci* 2017, **4**:239.
243. Longdon B, Day JP, Schulz N, Leftwich PT, de Jong MA, Breuker CJ, Gibbs M, Obbard DJ, Wilfert L, Smith SC, et al.: **Vertically transmitted rhabdoviruses are found across three insect families and have dynamic interactions with their hosts.** *Proc Biol Sci* 2017, **284**.
244. Lowery NV, McNally L, Ratcliff WC, Brown SP: **Division of Labor, Bet Hedging, and the Evolution of Mixed Biofilm Investment Strategies.** *MBio* 2017, **8**.
245. Loy DE, Liu W, Li Y, Learn GH, Plenderleith LJ, Sundararaman SA, Sharp PM, Hahn BH: **Out of Africa: origins and evolution of the human malaria parasites *Plasmodium falciparum* and *Plasmodium vivax*.** *Int J Parasitol* 2017, **47**:87-97.
246. Lu L, Leigh Brown AJ, Lycett SJ: **Quantifying predictors for the spatial diffusion of avian influenza virus in China.** *BMC Evol Biol* 2017, **17**:16.
247. Luo SX, Fan JH, Opriessnig T, Di JM, Liu BJ, Zuo YZ: **Development and application of a recombinant M protein-based indirect ELISA for the detection of porcine deltacoronavirus IgG antibodies.** *J Virol Methods* 2017, **249**:76-78.
248. Lupolova N, Dallman TJ, Holden NJ, Gally DL: **Patchy promiscuity: machine learning applied to predict the host specificity of *Salmonella enterica* and *Escherichia coli*.** *Microb Genom* 2017, **3**:e000135.
249. Ma Z, Yu Y, Xiao Y, Opriessnig T, Wang R, Yang L, Nan Y, Samal SK, Halbur PG, Zhang YJ: **The middle half genome of interferon-inducing porcine reproductive and respiratory syndrome virus strain A2MC2 is essential for interferon induction.** *J Gen Virol* 2017, **98**:1720-1729.
250. Mabbott NA: **Immunology of Prion Protein and Prions.** *Prog Mol Biol Transl Sci* 2017, **150**:203-240.
251. Mabbott NA: **How do PrP(Sc) Prions Spread between Host Species, and within Hosts?** *Pathogens* 2017, **6**.
252. Maboni G, Davenport R, Sessford K, Baiker K, Jensen TK, Blanchard AM, Wattegedera S, Entrican G, Totemeyer S: **A Novel 3D Skin Explant Model to Study Anaerobic Bacterial Infection.** *Front Cell Infect Microbiol* 2017, **7**:404.
253. MacArthur I, Anastasi E, Alvarez S, Scortti M, Vazquez-Boland JA: **Comparative Genomics of *Rhodococcus equi* Virulence Plasmids Indicates Host-Driven Evolution of the vap Pathogenicity Island.** *Genome Biol Evol* 2017, **9**:1241-1247.
254. MacDonald F, Zaiss DMW: **The Immune System's Contribution to the Clinical Efficacy of EGFR Antagonist Treatment.** *Front Pharmacol* 2017, **8**:575.
255. Macdonald SE, Nolan MJ, Harman K, Boulton K, Hume DA, Tomley FM, Stabler RA, Blake DP: **Effects of *Eimeria tenella* infection on chicken caecal microbiome diversity, exploring variation associated with severity of pathology.** *PLoS One* 2017, **12**:e0184890.
256. Macedo CAB, Macedo M, Miura AC, Taroda A, Cardim ST, Innes EA, Katzer F, Canton GJ, Chianini F, Headley SA, et al.: **Occurrence of abortions induced by *Neospora caninum* in dairy cattle from Santa Catarina, southern Brazil.** *Rev Bras Parasitol Vet* 2017, **26**:292-298.
257. Macqueen DJ, Primmer CR, Houston RD, Nowak BF, Bernatchez L, Bergseth S, Davidson WS, Gallardo-Escarate C, Goldammer T, Guiguen Y, et al.: **Functional Annotation of All Salmonid Genomes (FAASG): an international initiative supporting future salmonid research, conservation and aquaculture.** *BMC Genomics* 2017, **18**:484.
258. Majekodunmi AO, Dongkum C, Langs T, Shaw APM, Welburn SC: **Shifting livelihood strategies in northern Nigeria - extensified production and livelihood diversification amongst Fulani pastoralists.** *Pastoralism* 2017, **7**:19.

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259. Man WH, de Steenhuijsen Piters WA, Bogaert D: **The microbiota of the respiratory tract: gatekeeper to respiratory health.** *Nat Rev Microbiol* 2017, **15**:259-270.
260. Mateescu B, Kowal EJ, van Balkom BW, Bartel S, Bhattacharyya SN, Buzas EI, Buck AH, de Candia P, Chow FW, Das S, et al.: **Obstacles and opportunities in the functional analysis of extracellular vesicle RNA - an ISEV position paper.** *J Extracell Vesicles* 2017, **6**:1286095.
261. Matthews PC, Sharp C, Simmonds P, Kleinerman P: **Human parvovirus 4 'PARV4' remains elusive despite a decade of study.** *F1000Res* 2017, **6**:82.
262. Maury MM, Chenal-Francisque V, Bracq-Dieye H, Han L, Leclercq A, Vales G, Moura A, Gouin E, Scortti M, Disson O, et al.: **Spontaneous Loss of Virulence in Natural Populations of *Listeria monocytogenes*.** *Infect Immun* 2017, **85**.
263. May-Wilson S, Sud A, Law PJ, Palin K, Tuupanen S, Gylfe A, Hanninen UA, Cajuso T, Tanskanen T, Kondelin J, et al.: **Pro-inflammatory fatty acid profile and colorectal cancer risk: A Mendelian randomisation analysis.** *Eur J Cancer* 2017, **84**:228-238.
264. Mazeri S, Rydevik G, Handel I, Bronsvoort BMD, Sargison N: **Estimation of the impact of *Fasciola hepatica* infection on time taken for UK beef cattle to reach slaughter weight.** *Sci Rep* 2017, **7**:7319.
265. McCaskill JL, Ressel S, Alber A, Redford J, Power UF, Schwarze J, Dutia BM, Buck AH: **Broad-Spectrum Inhibition of Respiratory Virus Infection by MicroRNA Mimics Targeting p38 MAPK Signaling.** *Mol Ther Nucleic Acids* 2017, **7**:256-266.
266. McFarlane AJ, McSorley HJ, Davidson DJ, Fitch PM, Errington C, Mackenzie KJ, Gollwitzer ES, Johnston CJC, MacDonald AS, Edwards MR, et al.: **Enteric helminth-induced type I interferon signaling protects against pulmonary virus infection through interaction with the microbiota.** *J Allergy Clin Immunol* 2017, **140**:1068-1078.e1066.
267. McGlasson SL, Semple F, MacPherson H, Gray M, Davidson DJ, Dorin JR: **Human beta-defensin 3 increases the TLR9-dependent response to bacterial DNA.** *Eur J Immunol* 2017, **47**:658-664.
268. McGrath JS, Honrado C, Spencer D, Horton B, Bridle HL, Morgan H: **Analysis of Parasitic Protozoa at the Single-cell Level using Microfluidic Impedance Cytometry.** *Sci Rep* 2017, **7**:2601.
269. McHugh MP, Wu AHB, Chevaliez S, Pawlotsky JM, Hallin M, Templeton KE: **Multicenter Evaluation of the Cepheid Xpert Hepatitis C Virus Viral Load Assay.** *J Clin Microbiol* 2017, **55**:1550-1556.
270. McLean CJ, Marles-Wright J, Custodio R, Lowther J, Kennedy AJ, Pollock J, Clarke DJ, Brown AR, Campopiano DJ: **Characterization of homologous sphingosine-1-phosphate lyase isoforms in the bacterial pathogen *Burkholderia pseudomallei*.** *J Lipid Res* 2017, **58**:137-150.
271. McNeil M, Gerber PF, Thomson J, Williamson S, Opriessnig T: **Serotypes and Spa types of *Erysipelothrix rhusiopathiae* isolates from British pigs (1987 to 2015).** *Vet J* 2017, **225**:13-15.
272. McNeilly TN: **Global food security via efficient livestock production: targeting poor animal husbandry.** *Vet Rec* 2017, **180**:276-277.
273. McNeilly TN, Frew D, Burgess STG, Wright H, Bartley DJ, Bartley Y, Nisbet AJ: **Niche-specific gene expression in a parasitic nematode; increased expression of immunomodulators in *Teladorsagia circumcincta* larvae derived from host mucosa.** *Sci Rep* 2017, **7**:7214.
274. McQueen J, Ryan TJ, McKay S, Marwick K, Baxter P, Carpanini SM, Wishart TM, Gillingwater TH, Manson JC, Wyllie DJA, et al.: **Pro-death NMDA receptor signaling is promoted by the GluN2B C-terminus independently of Dapk1.** *Elife* 2017, **6**.
275. Mduluza T, Mutapi F: **Putting the treatment of paediatric schistosomiasis into context.** *Infect Dis Poverty* 2017, **6**:85.
276. Megia-Fernandez A, Mills B, Michels C, Chankeshwara SV, Dhaliwal K, Bradley M: **Highly selective and rapidly activatable fluorogenic Thrombin sensors and application in human lung tissue.** *Org Biomol Chem* 2017, **15**:4344-4350.
277. Mehrotra R, Renganaath K, Kanodia H, Loake GJ, Mehrotra S: **Towards combinatorial transcriptional engineering.** *Biotechnol Adv* 2017, **35**:390-405.
278. Meng LS, Wang YB, Loake GJ, Jiang JH: **Corrigendum: Seed Embryo Development Is Regulated via an AN3-MINI3 Gene Cascade.** *Front Plant Sci* 2017, **8**:1073.
279. Metsky HC, Matranga CB, Wohl S, Schaffner SF, Freije CA, Winnicki SM, West K, Qu J, Baniecki ML, Gladden-Young A, et al.: **Zika virus evolution and spread in the Americas.** *Nature* 2017, **546**:411-415.
280. Miles K, Simpson J, Brown S, Cowan G, Gray D, Gray M: **Immune Tolerance to Apoptotic Self Is Mediated Primarily by Regulatory B1a Cells.** *Front Immunol* 2017, **8**:1952.
281. Millar M, Foster A, Mitchell G, Skuce P, Wessels J, Elena VR, Rachael C, Heather S: **Rumen fluke in South American camelids in Great Britain.** *Vet Rec* 2017, **181**:123-124.
282. Mills B, Akram AR, Scholefield E, Bradley M, Dhaliwal K: **Optical Screening of Novel Bacteria-specific Probes on Ex Vivo Human Lung Tissue by Confocal Laser Endomicroscopy.** *J Vis Exp* 2017.

283. Minutti CM, Drube S, Blair N, Schwartz C, McCrae JC, McKenzie AN, Kamradt T, Mokry M, Coffer PJ, Sibilia M, et al.: **Epidermal Growth Factor Receptor Expression Licenses Type-2 Helper T Cells to Function in a T Cell Receptor-Independent Fashion.** *Immunity* 2017, **47**:710-722.e716.
284. Minutti CM, Jackson-Jones LH, Garcia-Fojeda B, Knipper JA, Sutherland TE, Logan N, Ringqvist E, Guillamat-Prats R, Ferenbach DA, Artigas A, et al.: **Local amplifiers of IL-4Ralpha-mediated macrophage activation promote repair in lung and liver.** *Science* 2017, **356**:1076-1080.
285. Minutti CM, Knipper JA, Allen JE, Zaiss DM: **Tissue-specific contribution of macrophages to wound healing.** *Semin Cell Dev Biol* 2017, **61**:3-11.
286. Mitchell G, Cuthill G, Haine A, Zadoks R, Chaudhry U, Skuce P, Sargison N: **Evaluation of molecular methods for the field study of the natural history of Dicrocoelium dendriticum.** *Vet Parasitol* 2017, **235**:100-105.
287. Mohamad F, Tanner MG, Choudhury D, Choudhary TR, Wood HAC, Harrington K, Bradley M: **Controlled core-to-core photopolymerisation - fabrication of an optical fibre-based pH sensor.** *Analyst* 2017, **142**:3569-3572.
288. Moon S, Leigh J, Woskie L, Checchi F, Dzau V, Fallah M, Fitzgerald G, Garrett L, Gostin L, Heymann DL, et al.: **Post-Ebola reforms: ample analysis, inadequate action.** *Bmj* 2017, **356**:j280.
289. Muangsombut V, Withatanung P, Srinon V, Chanratita N, Stevens MP, Blackwell JM, Korbsrisate S: **Burkholderia pseudomallei Evades Nramp1 (Slc11a1)- and NADPH Oxidase-Mediated Killing in Macrophages and Exhibits Nramp1-Dependent Virulence Gene Expression.** *Front Cell Infect Microbiol* 2017, **7**:350.
290. Muhleip AW, Dewar CE, Schnaufer A, Kuhlbrandt W, Davies KM: **In situ structure of trypanosomal ATP synthase dimer reveals a unique arrangement of catalytic subunits.** *Proc Natl Acad Sci U S A* 2017, **114**:992-997.
291. Murray AD, Turner K, Archibald D, Schiphorst C, Griffin SA, Scott H, Hawkes R, Kelly P, Grant L, Mutrie N: **An observational study of spectators' step counts and reasons for attending a professional golf tournament in Scotland.** *BMJ Open Sport Exerc Med* 2017, **3**:e000244.
292. Murray S, Pascoe B, Meric G, Mageiros L, Yahara K, Hitchings MD, Friedmann Y, Wilkinson TS, Gormley FJ, Mack D, et al.: **Recombination-Mediated Host Adaptation by Avian Staphylococcus aureus.** *Genome Biol Evol* 2017, **9**:830-842.
293. Mutapi F, Maizels R, Fenwick A, Woolhouse M: **Human schistosomiasis in the post mass drug administration era.** *Lancet Infect Dis* 2017, **17**:e42-e48.
294. Mwiinde AM, Simunza M, Namangala B, Chama-Chiliba CM, Machila N, Anderson N, Shaw A, Welburn SC: **Estimating the economic and social consequences for patients diagnosed with human African trypanosomiasis in Muchinga, Lusaka and Eastern Provinces of Zambia (2004-2014).** *Infect Dis Poverty* 2017, **6**:150.
295. Nading AM: **Local Biologies, Leaky Things, and the Chemical Infrastructure of Global Health.** *Med Anthropol* 2017, **36**:141-156.
296. Nair H: **Simplified antibiotic regimens for community management of neonatal sepsis.** *Lancet Glob Health* 2017, **5**:e118-e120.
297. Nausch N, Mutapi F: **Group 2 ILCs: a way of enhancing immune protection against human helminths?** *Parasite Immunol* 2017, **40**.
298. Naylor AD, Girling SJ, Brown D, Crompton CG, Pizzi R: **Plasma protein electrophoresis as a prognostic indicator in Aspergillus species-infected Gentoo penguins (*Pygoscelis papua papua*).** *Vet Clin Pathol* 2017, **46**:605-614.
299. Neely AH, Nading AM: **Global health from the outside: The promise of place-based research.** *Health Place* 2017, **45**:55-63.
300. Neumann K, Jain S, Gambardella A, Walker SE, Valero E, Lilienkampf A, Bradley M: **Tetrazine-Responsive Self-immolative Linkers.** *Chembiochem* 2017, **18**:91-95.
301. Newmark H, Dantoft W, Ghazal P: **Evolutionary Origin of the Interferon-Immune Metabolic Axis: The Sterol-Vitamin D Link.** *Front Immunol* 2017, **8**:62.
302. Ni Choileain S, Hay J, Thomas J, Williams A, Vermeren MM, Benezech C, Gomez-Salazar M, Hugues OR, Vermeren S, Howie SEM, et al.: **TCR-stimulated changes in cell surface CD46 expression generate type 1 regulatory T cells.** *Sci Signal* 2017, **10**.
303. Nijhuis RH, Guerendiain D, Claas EC, Templeton KE: **Comparison of the ePlex(R) Respiratory Pathogen Panel with Laboratory Developed Real-Time PCR for the Detection of Respiratory Pathogens.** *J Clin Microbiol* 2017, **55**:1938-1945.
304. Nijhuis RHT, Guerendiain D, Claas ECJ, Templeton KE: **Comparison of ePlex Respiratory Pathogen Panel with Laboratory-Developed Real-Time PCR Assays for Detection of Respiratory Pathogens.** *J Clin Microbiol* 2017, **55**:1938-1945.
305. Nilsson L, Brockow K, Alm J, Cardona V, Caubet JC, Gomes E, Jenmalm MC, Lau S, Netterlid E, Schwarze J, et al.: **Vaccination and allergy: EAACI position paper, practical aspects.** *Pediatr Allergy Immunol* 2017, **28**:628-640.
306. Noguchi S, Arakawa T, Fukuda S, Furuno M, Hasegawa A, Hori F, Ishikawa-Kato S, Kaida K, Kaiho A, Kanamori-Katayama M, et al.: **FANTOM5 CAGE profiles of human and mouse samples.** *Sci Data* 2017, **4**:170112.
307. Nowak MA, Waclaw B: **Genes, environment, and "bad luck".** *Science* 2017, **355**:1266-1267.
308. Olukosi OA, Kasprzak MM, Kightley S, Carre P, Wiseman J, Houdijk JGM: **Investigations of the nutritive value of meals of double-low rapeseed and its influence on growth performance of broiler chickens.** *Poult Sci* 2017, **96**:3338-3350.

309. Onzere CK, Bastos AD, Okoth EA, Lichoti JK, Bochere EN, Owido MG, Ndambuki G, Bronsvoort M, Bishop RP: **Multi-locus sequence typing of African swine fever viruses from endemic regions of Kenya and Eastern Uganda (2011-2013) reveals rapid B602L central variable region evolution.** *Virus Genes* 2017.
310. Opiressig T, Gerber PF, Matzinger SR, Meng XJ, Halbur PG: **Markedly different immune responses and virus kinetics in littermates infected with porcine circovirus type 2 or porcine parvovirus type 1.** *Vet Immunol Immunopathol* 2017, **191**:51-59.
311. Opiressig T, Gerber PF, Shen H, de Castro A, Zhang J, Chen Q, Halbur P: **Evaluation of the efficacy of a commercial inactivated genogroup 2b-based porcine epidemic diarrhea virus (PEDV) vaccine and experimental live genogroup 1b exposure against 2b challenge.** *Vet Res* 2017, **48**:69.
312. Opiressig T, Xiao CT, Halbur PG, Gerber PF, Matzinger SR, Meng XJ: **A commercial porcine circovirus (PCV) type 2a-based vaccine reduces PCV2d viremia and shedding and prevents PCV2d transmission to naive pigs under experimental conditions.** *Vaccine* 2017, **35**:248-254.
313. Orru CD, Yuan J, Appleby BS, Li B, Li Y, Winner D, Wang Z, Zhan YA, Rodgers M, Rarick J, et al.: **Prion seeding activity and infectivity in skin samples from patients with sporadic Creutzfeldt-Jakob disease.** *Sci Transl Med* 2017, **9**.
314. Osbourn M, Soares DC, Vacca F, Cohen ES, Scott IC, Gregory WF, Smyth DJ, Toivakka M, Kemter AM, le Bihan T, et al.: **HpARI Protein Secreted by a Helminth Parasite Suppresses Interleukin-33.** *Immunity* 2017, **47**:739-751.e735.
315. Pagaling E, Vassileva K, Mills CG, Bush T, Blythe RA, Schwarz-Linek J, Strathdee F, Allen RJ, Free A: **Assembly of microbial communities in replicate nutrient-cycling model ecosystems follows divergent trajectories, leading to alternate stable states.** *Environ Microbiol* 2017, **19**:3374-3386.
316. Parcell BJ, Jarchow-MacDonald AA, Seagar AL, Laurenson IF, Prescott GJ, Lockhart M: **Three year evaluation of Xpert MTB/RIF in a low prevalence tuberculosis setting: A Scottish perspective.** *J Infect* 2017, **74**:466-472.
317. Partridge FA, Brown AE, Buckingham SD, Willis NJ, Wynne GM, Forman R, Else KJ, Morrison AA, Matthews JB, Russell AJ, et al.: **An automated high-throughput system for phenotypic screening of chemical libraries on C. elegans and parasitic nematodes.** *Int J Parasitol Drugs Drug Resist* 2017, **8**:8-21.
318. Pattle SB, Utjesanovic N, Togo A, Wells L, Conn B, Monaghan H, Junor E, Johannessen I, Cuschieri K, Talbot S: **Copy number gain of 11q13.3 genes associates with pathological stage in hypopharyngeal squamous cell carcinoma.** *Genes Chromosomes Cancer* 2017, **56**:185-198.
319. Paulsson J, El Karoui M, Lindell M, Hughes D: **The processive kinetics of gene conversion in bacteria.** *Mol Microbiol* 2017, **104**:752-760.
320. Pavelin J, McCormick D, Chiweshe S, Ramachandran S, Lin YT, Grey F: **Cellular v-ATPase is required for virion assembly compartment formation in human cytomegalovirus infection.** *Open Biol* 2017, **7**.
321. Peachey LE, Pinchbeck GL, Matthews JB, Burden FA, Lespine A, von Samson-Himmelstjerna G, Krucken J, Hodgkinson JE: **P-glycoproteins play a role in ivermectin resistance in cyathostomins.** *Int J Parasitol Drugs Drug Resist* 2017, **7**:388-398.
322. Pemberton JM, Ellis PE, Pilkington JG, Berenos C: **Inbreeding depression by environment interactions in a free-living mammal population.** *Heredity (Edinb)* 2017, **118**:64-77.
323. Pereira CF, Read EKC, Wise HM, Amorim MJ, Digard P: **Influenza A Virus NS1 Protein Promotes Efficient Nuclear Export of Unspliced Viral M1 mRNA.** *J Virol* 2017, **91**.
324. Platteele ACM, Henri S, Zaiss DM, Sijts A: **Dissecting antigen processing and presentation routes in dermal vaccination strategies.** *Vaccine* 2017, **30**:7057-7063.
325. Ploeger HW, Ankum L, Moll L, van Doorn DCK, Mitchell G, Skuce PJ, Zadoks RN, Holzhauer M: **Presence and species identity of rumen flukes in cattle and sheep in the Netherlands.** *Vet Parasitol* 2017, **243**:42-46.
326. Polak ME, Ung CY, Masapust J, Freeman TC, Ardern-Jones MR: **Petri Net computational modelling of Langerhans cell Interferon Regulatory Factor Network predicts their role in T cell activation.** *Sci Rep* 2017, **7**:668.
327. Polverino E, Goeminne PC, McDonnell MJ, Aliberti S, Marshall SE, Loebinger MR, Murris M, Canton R, Torres A, Dimakou K, et al.: **European Respiratory Society guidelines for the management of adult bronchiectasis.** *Eur Respir J* 2017, **50**.
328. Porphyre T, Correia-Gomes C, Chase-Topping ME, Gamado K, Auty HK, Hutchinson I, Reeves A, Gunn GJ, Woolhouse ME: **Vulnerability of the British swine industry to classical swine fever.** *Sci Rep* 2017, **7**:42992.
329. Prentice JC, Marion G, Hutchings MR, McNeilly TN, Matthews L: **Complex responses to movement-based disease control: when livestock trading helps.** *J R Soc Interface* 2017, **14**.
330. Pridans C, Sauter KA, Irvine KM, Davis GM, Lefevre L, Raper A, Rojo R, Nirmal AJ, Beard P, Cheeseman M, et al.: **Macrophage colony stimulating factor increases hepatic macrophage content, liver growth and lipid accumulation in neonatal rats.** *Am J Physiol Gastrointest Liver Physiol* 2017.

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331. Prince LR, Grosseda SD, Higgins K, Carling J, Prestwich EC, Ogryzko NV, Rahman A, Basran A, Falciani F, Taylor P, et al.: **NR4A orphan nuclear receptor family members, NR4A2 and NR4A3, regulate neutrophil number and survival.** *Blood* 2017, **130**:1014-1025.
332. Pritchard TC, Coffey MP, Bond KS, Hutchings MR, Wall E: **Phenotypic effects of subclinical paratuberculosis (Johne's disease) in dairy cattle.** *J Dairy Sci* 2017, **100**:679-690.
333. Quintana JF, Babayan SA, Buck AH: **Small RNAs and extracellular vesicles in filarial nematodes: From nematode development to diagnostics.** *Parasite Immunol* 2017, **39**.
334. Rainard P, Foucras G, Fitzgerald JR, Watts JL, Koop G, Middleton JR: **Knowledge gaps and research priorities in *Staphylococcus aureus* mastitis control.** *Transbound Emerg Dis* 2017.
335. Rainger J, Williamson KA, Soares DC, Truch J, Kurian D, Gillessen-Kaesbach G, Seawright A, Prendergast J, Halachev M, Wheeler A, et al.: **A recurrent de novo mutation in ACTG1 causes isolated ocular coloboma.** *Hum Mutat* 2017, **38**:942-946.
336. Raphaka K, Matika O, Sanchez-Molano E, Mrode R, Coffey MP, Riggio V, Glass EJ, Wooliams JA, Bishop SC, Banos G: **Genomic regions underlying susceptibility to bovine tuberculosis in Holstein-Friesian cattle.** *BMC Genet* 2017, **18**:27.
337. Rasanathan K, Bennett S, Atkins V, Beschel R, Carrasquilla G, Charles J, Dasgupta R, Emerson K, Glandon D, Kanchanachitra C, et al.: **Governing multisectoral action for health in low- and middle-income countries.** *PLoS Med* 2017, **14**:e1002285.
338. Ratmann O, Hodcroft EB, Pickles M, Cori A, Hall M, Lycett S, Colijn C, Dearlove B, Didelot X, Frost S, et al.: **Phylogenetic Tools for Generalized HIV-1 Epidemics: Findings from the PANGEA-HIV Methods Comparison.** *Mol Biol Evol* 2017, **34**:185-203.
339. Reece SE, Prior KF, Mideo N: **The Life and Times of Parasites: Rhythms in Strategies for Within-host Survival and Between-host Transmission.** *J Biol Rhythms* 2017, **32**:516-533.
340. Regan CE, Pilkington JG, Berenos C, Pemberton JM, Smiseth PT, Wilson AJ: **Accounting for female space sharing in St. Kilda Soay sheep (*Ovis aries*) results in little change in heritability estimates.** *J Evol Biol* 2017, **30**:96-111.
341. Reichert S, Froy H, Boner W, Burg TM, Daunt F, Gillespie R, Griffiths K, Lewis S, Phillips RA, Nussey DH, et al.: **Telomere length measurement by qPCR in birds is affected by storage method of blood samples.** *Oecologia* 2017, **184**:341-350.
342. Richards JA, Wigmore SJ, Anderton SM, Howie SEM: **NKT cells are important mediators of hepatic ischemia-reperfusion injury.** *Transpl Immunol* 2017, **45**:15-21.
343. Rico E, Ivens A, Glover L, Horn D, Matthews KR: **Genome-wide RNAi selection identifies a regulator of transmission stage-enriched gene families and cell-type differentiation in *Trypanosoma brucei*.** *PLoS Pathog* 2017, **13**:e1006279.
344. Rinaldi SF, Makieva S, Saunders PT, Rossi AG, Norman JE: **Immune cell and transcriptomic analysis of the human decidua in term and preterm parturition.** *Mol Hum Reprod* 2017, **23**:708-724.
345. Ritchie DL, Barria MA, Peden AH, Yull HM, Kirkpatrick J, Adlard P, Ironside JW, Head MW: **UK iatrogenic Creutzfeldt-Jakob disease: investigating human prion transmission across genotypic barriers using human tissue-based and molecular approaches.** *Acta Neuropathol* 2017, **133**:579-595.
346. Ritchie DL, Ironside JW: **Neuropathology of Human Prion Diseases.** *Prog Mol Biol Transl Sci* 2017, **150**:319-339.
347. Robb CT, McSorley HJ, Lee J, Aoki T, Yu C, Crittenden S, Astier A, Felton JM, Parkinson N, Ayele A, et al.: **Prostaglandin E2 stimulates adaptive IL-22 production and promotes allergic contact dermatitis.** *J Allergy Clin Immunol* 2017, **141**:152-162.
348. Rodriguez-Broadbent H, Law PJ, Sud A, Palin K, Tuupanen S, Gylfe A, Hanninen UA, Cajuso T, Tanskanen T, Kondelin J, et al.: **Mendelian randomisation implicates hyperlipidaemia as a risk factor for colorectal cancer.** *Int J Cancer* 2017, **140**:2701-2708.
349. Roeber F, Hassan EB, Skuce P, Morrison A, Claerebout E, Casaert S, Homer DR, Firestone S, Stevenson M, Smith L, et al.: **An automated, multiplex-tandem PCR platform for the diagnosis of gastrointestinal nematode infections in cattle: An Australian-European validation study.** *Vet Parasitol* 2017, **239**:62-75.
350. Roeber F, Morrison A, Casaert S, Smith L, Claerebout E, Skuce P: **Multiplexed-tandem PCR for the specific diagnosis of gastrointestinal nematode infections in sheep: an European validation study.** *Parasit Vectors* 2017, **10**:226.
351. Rogers PA, Adamson GD, Al-Jefout M, Becker CM, D'Hooghe TM, Dunselman GA, Fazleabas A, Giudice LC, Horne AW, Hull ML, et al.: **Research Priorities for Endometriosis.** *Reprod Sci* 2017, **24**:202-226.
352. Roguski A, Gill AC: **The Role of the Mammalian Prion Protein in the Control of Sleep.** *Pathogens* 2017, **6**.
353. Rojas-Pirela M, Rigden DJ, Michels PA, Caceres AJ, Concepcion JL, Quinones W: **Structure and function of Per-ARNT-Sim domains and their possible role in the life-cycle biology of *Trypanosoma cruzi*.** *Mol Biochem Parasitol* 2017, **219**:52-66.
354. Rojo R, Pridans C, Langlais D, Hume DA: **Transcriptional mechanisms that control expression of the macrophage colony-stimulating factor receptor locus.** *Clin Sci (Lond)* 2017, **131**:2161-2182.
355. Rosko J, Martinez VA, Poon WCK, Pilizota T: **Osmotaxis in *Escherichia coli* through changes in motor speed.** *Proc Natl Acad Sci U S A* 2017, **114**:E7969-E7976.
356. Ross-Elliott TJ, Jensen KH, Haaning KS, Wager BM, Knoblauch J, Howell AH, Mullendore DL, Monteith AG, Paultre D, Yan D, et al.: **Phloem unloading in *Arabidopsis* roots is convective and regulated by the phloem-pole pericycle.** *Elife* 2017, **6**.

357. Ruckerl D, Campbell SM, Duncan S, Sutherland TE, Jenkins SJ, Hewitson JP, Barr TA, Jackson-Jones LH, Maizels RM, Allen JE: **Macrophage origin limits functional plasticity in helminth-bacterial co-infection.** *PLoS Pathog* 2017, **13**:e1006233.
358. Rudan I, Yoshida S, Chan KY, Sridhar D, Wazny K, Nair H, Sheikh A, Tomlinson M, Lawn JE, Bhutta ZA, et al.: **Setting health research priorities using the CHNRI method: VII. A review of the first 50 applications of the CHNRI method.** *J Glob Health* 2017, **7**:011004.
359. Russell AC, Simurina M, Garcia MT, Novokmet M, Wang Y, Rudan I, Campbell H, Lauc G, Thomas MG, Wang W: **The N-glycosylation of immunoglobulin G as a novel biomarker of Parkinson's disease.** *Glycobiology* 2017, **27**:501-510.
360. Russell CD, Unger SA, Walton M, Schwarze J: **The Human Immune Response to Respiratory Syncytial Virus Infection.** *Clin Microbiol Rev* 2017, **30**:481-502.
361. Russell GC, Grant DM, Lycett S, Bachofen C, Caldow GL, Burr PD, Davie K, Ambrose N, Gunn GJ, Zadoks RN: **Analysis of bovine viral diarrhoea virus: Biobank and sequence database to support eradication in Scotland.** *Vet Rec* 2017, **180**:447.
362. Sadeghi M, Kapusinszky B, Yugo DM, Phan TG, Deng X, Kanevsky I, Opriessnig T, Woolums AR, Hurley DJ, Meng XJ, et al.: **Virome of US bovine calf serum.** *Biologicals* 2017, **46**:64-67.
363. Sadiku P, Willson JA, Dickinson RS, Murphy F, Harris AJ, Lewis A, Sammut D, Mirchandani AS, Ryan E, Watts ER, et al.: **Prolyl hydroxylase 2 inactivation enhances glycogen storage and promotes excessive neutrophilic responses.** *J Clin Invest* 2017, **127**:3407-3420.
364. Salazar SV, Gallardo C, Kaufman AC, Herber CS, Haas LT, Robinson S, Manson JC, Lee MK, Strittmatter SM: **Conditional Deletion of Prnp Rescues Behavioral and Synaptic Deficits after Disease Onset in Transgenic Alzheimer's Disease.** *J Neurosci* 2017, **37**:9207-9221.
365. Sanderson PA, Critchley HO, Williams AR, Arends MJ, Saunders PT: **New concepts for an old problem: the diagnosis of endometrial hyperplasia.** *Hum Reprod Update* 2017, **23**:232-254.
366. Saraswat L, Ayansina D, Cooper KG, Bhattacharya S, Horne AW, Bhattacharya S: **Impact of endometriosis on risk of further gynaecological surgery and cancer: a national cohort study.** *Bjog* 2017, **125**:64-72.
367. Sargison ND, Iliv SA, Abraham J, Abubaker SP, Hopker AM, Mazeri S, Otter IA, Otter N: **Investigation of productivity in a south Indian Malabari goat herd shows opportunities for planned animal health management to improve food security.** *Vet Rec* 2017, **180**:278.
368. Sargison ND, Redman E, Morrison AA, Bartley DJ, Jackson F, Naghra-van Gijzel H, Holroyd N, Berriman M, Cotton JA, Gillear JS: **A method for single pair mating in an obligate parasitic nematode.** *Int J Parasitol* 2017, **48**:159-165.
369. Scheltema NM, Gentile A, Lucion F, Nokes DJ, Munywoki PK, Madhi SA, Groome MJ, Cohen C, Moyes J, Thorburn K, et al.: **Global respiratory syncytial virus-associated mortality in young children (RSV GOLD): a retrospective case series.** *Lancet Glob Health* 2017, **5**:e984-e991.
370. Schwarze J, Openshaw P, Jha A, Del Giacco SR, Firini D, Tsilochristou O, Roberts G, Selby A, Akdis C, Agache I, et al.: **Influenza burden, prevention and treatment in asthma - a scoping review by the EAACI Influenza in Asthma Task Force.** *Allergy* 2017.
371. Scoones I, Dzingirai V, Anderson N, MacLeod E, Mangwanya L, Matawa F, Murwira A, Nyakupinda L, Shereni W, Welburn SC: **People, Patches, and Parasites: The Case of Trypanosomiasis in Zimbabwe.** *Hum Ecol Interdiscip J* 2017, **45**:643-654.
372. Sehgal A, Kobayashi A, Donaldson DS, Mabbott NA: **c-Rel is dispensable for the differentiation and functional maturation of M cells in the follicle-associated epithelium.** *Immunobiology* 2017, **222**:316-326.
373. Selega A, Sirocchi C, Iosub I, Granneman S, Sanguinetti G: **Robust statistical modeling improves sensitivity of high-throughput RNA structure probing experiments.** *Nat Methods* 2017, **14**:83-89.
374. Seroussi E, Pitel F, Leroux S, Morisson M, Bornelov S, Miyara S, Yosefi S, Cogburn LA, Burt DW, Anderson L, et al.: **Mapping of leptin and its syntenic genes to chicken chromosome 1p.** *BMC Genet* 2017, **18**:77.
375. Serrels B, McGivern N, Canel M, Byron A, Johnson SC, McSorley HJ, Quinn N, Taggart D, Von Kreigsheim A, Anderton SM, et al.: **IL-33 and ST2 mediate FAK-dependent antitumor immune evasion through transcriptional networks.** *Sci Signal* 2017, **10**.
376. Sharma JR, Harper I, Adhikari R, Smith P, Thapa D, Chand OB, Malata A: **Comment - WHO outsourcing dilemma: for whose benefit, at whose expense?** *BMJ Glob Health* 2017, **2**:i3-i4.
377. Sharma S, Yang J, van Nues R, Watzinger P, Kotter P, Lafontaine DLJ, Granneman S, Entian KD: **Specialized box C/D snoRNPs act as antisense guides to target RNA base acetylation.** *PLoS Genet* 2017, **13**:e1006804.
378. Sharma V, Kaur T, Bridle H, Ghosh M: **Antimicrobial efficacy and safety of mucoadhesive exopolymer produced by Acinetobacter haemolyticus.** *Int J Biol Macromol* 2017, **94**:187-193.
379. Sharp CP, Gregory WF, Hattingh L, Malik A, Adland E, Daniels S, van Zyl A, Carlson JM, Wareing S, Ogwu A, et al.: **PARV4 prevalence, phylogeny, immunology and coinfection with HIV, HBV and HCV in a multicentre African cohort.** *Wellcome Open Res* 2017, **2**:26.

380. Shi T, McAllister DA, O'Brien KL, Simoes EAF, Madhi SA, Gessner BD, Polack FP, Balsells E, Acacio S, Aguayo C, et al.: **Global, regional, and national disease burden estimates of acute lower respiratory infections due to respiratory syncytial virus in young children in 2015: a systematic review and modelling study.** *Lancet* 2017, **S0140-6736**:30938-30938.
381. Shih BB, Nirmal AJ, Headon DJ, Akbar AN, Mabbott NA, Freeman TC: **Derivation of marker gene signatures from human skin and their use in the interpretation of the transcriptional changes associated with dermatological disorders.** *J Pathol* 2017, **241**:600-613.
382. Silva N, Sousa M: **Is marbofloxacin a good candidate for treating pigs in Europe?** *Vet Rec* 2017, **180**:588-590.
383. Silvester E, McWilliam KR, Matthews KR: **The Cytological Events and Molecular Control of Life Cycle Development of Trypanosoma brucei in the Mammalian Bloodstream.** *Pathogens* 2017, **6**.
384. Silvester E, Young J, Ivens A, Matthews KR: **Interspecies quorum sensing in co-infections can manipulate trypanosome transmission potential.** *Nat Microbiol* 2017, **2**:1471-1479.
385. Simpson CR, Lone NI, Kavanagh K, Robertson C, McMenamin J, von Wissmann B, Vasileiou E, Butler C, Ritchie LD, Gunson R, et al.: **Evaluating the effectiveness, impact and safety of live attenuated and seasonal inactivated influenza vaccination: protocol for the Seasonal Influenza Vaccination Effectiveness II (SIVE II) study.** *BMJ Open* 2017, **7**:e014200.
386. Smith JO, Tayton ER, Khan F, Aarvold A, Cook RB, Goodship A, Bradley M, Oreffo RO: **Large animal in vivo evaluation of a binary blend polymer scaffold for skeletal tissue-engineering strategies; translational issues.** *J Tissue Eng Regen Med* 2017, **11**:1065-1076.
387. Smith RWP, Anderson RC, Larralde O, Smith JWS, Gorgoni B, Richardson WA, Malik P, Graham SV, Gray NK: **Viral and cellular mRNA-specific activators harness PABP and eIF4G to promote translation initiation downstream of cap binding.** *Proc Natl Acad Sci U S A* 2017, **114**:6310-6315.
388. Sousa M, Silva N, Manageiro V, Ramos S, Coelho A, Goncalves D, Canica M, Torres C, Igrelas G, Poeta P: **First report on MRSA CC398 recovered from wild boars in the north of Portugal. Are we facing a problem?** *Sci Total Environ* 2017, **596-597**:26-31.
389. Spiller F, Medina-Pritchard B, Abad MA, Wear MA, Molina O, Earnshaw WC, Jeyaprakash AA: **Molecular basis for Cdk1-regulated timing of Mis18 complex assembly and CENP-A deposition.** *EMBO Rep* 2017, **18**:894-905.
390. Staderini M, Megia-Fernandez A, Dhaliwal K, Bradley M: **Peptides for optical medical imaging and steps towards therapy.** *Bioorg Med Chem* 2017, **S0968-0896**:31409-31408.
391. Stanczuk GA, Baxter GJ, Currie H, Forson W, Lawrence JR, Cuschieri K, Wilson A, Patterson L, Govan L, Black J, et al.: **Defining Optimal Triage Strategies for hrHPV Screen-Positive Women-An Evaluation of HPV 16/18 Genotyping, Cytology, and p16/Ki-67 Cytoimmunochemistry.** *Cancer Epidemiol Biomarkers Prev* 2017, **26**:1629-1635.
392. Subiros-Funosas R, Mendive-Tapia L, Sot J, Pound JD, Barth N, Varela Y, Goni FM, Paterson M, Gregory CD, Albericio F, et al.: **A Trp-BODIPY cyclic peptide for fluorescence labelling of apoptotic bodies.** *Chem Commun (Camb)* 2017, **53**:945-948.
393. Subramanian S, Cao D, Tian D, Cao QM, Overend C, Yugo DM, Matzinger SR, Rogers AJ, Heffron CL, Catanzaro N, et al.: **Efficient priming of CD4 T cells by Langerin-expressing dendritic cells targeted with porcine epidemic diarrhea virus spike protein domains in pigs.** *Virus Res* 2017, **227**:212-219.
394. Summers KM, Hume DA: **Identification of the macrophage-specific promoter signature in FANTOM5 mouse embryo developmental time course data.** *J Leukoc Biol* 2017, **102**:1081-1092.
395. Surve SV, Jensen BC, Heestand M, Mazet M, Smith TK, Bringaud F, Parsons M, Schnaufer A: **NADH dehydrogenase of Trypanosoma brucei is important for efficient acetate production in bloodstream forms.** *Mol Biochem Parasitol* 2017, **211**:57-61.
396. Swann OV, Harrison EM, Opi DH, Nyatichi E, Macharia A, Uyoga S, Williams TN, Rowe JA: **No Evidence that Knops Blood Group Polymorphisms Affect Complement Receptor 1 Clustering on Erythrocytes.** *Sci Rep* 2017, **7**:17825.
397. Szitenberg A, Salazar-Jaramillo L, Blok VC, Laetsch DR, Joseph S, Williamson VM, Blaxter ML, Lunt DH: **Comparative genomics of apomictic root-knot nematodes: hybridization, ploidy, and dynamic genome change.** *Genome Biol Evol* 2017, **9**:2844-2861.
398. Tahoun A, Jensen K, Corripi-Miyar Y, McAteer S, Smith DGE, McNeilly TN, Gally DL, Glass EJ: **Host species adaptation of TLR5 signalling and flagellin recognition.** *Sci Rep* 2017, **7**:17677.
399. Tai YL, Chiu NC, Chi H, Bachmann TT, Huang FY, Lin CY: **Woman With Swelling of the Left Breast.** *Ann Emerg Med* 2017, **70**:621-647.
400. Tan TCJ, Knight J, Sbarrato T, Dudek K, Willis AE, Zamoyska R: **Suboptimal T-cell receptor signaling compromises protein translation, ribosome biogenesis, and proliferation of mouse CD8 T cells.** *Proc Natl Acad Sci U S A* 2017, **114**:E6117-E6126.
401. Tanner MG, Choudhary TR, Craven TH, Mills B, Bradley M, Henderson RK, Dhaliwal K, Thomson RR: **Ballistic and snake photon imaging for locating optical endomicroscopy fibres.** *Biomed Opt Express* 2017, **8**:4077-4095.

402. Tanskanen T, van den Berg L, Valimaki N, Aavikko M, Ness-Jensen E, Hveem K, Wettergren Y, Bexe Lindskog E, Tonisson N, Metspalu A, et al.: **Genome-wide association study and meta-analysis in Northern European populations replicate multiple colorectal cancer risk loci.** *Int J Cancer* 2017, **142**:540-546.
403. Thamsborg SM, Ketzis J, Horii Y, Matthews JB: **Strongyloides spp. infections of veterinary importance.** *Parasitology* 2017, **144**:274-284.
404. Thevaranjan N, Puchta A, Schulz C, Naidoo A, Szamosi JC, Verschoor CP, Loukov D, Schenck LP, Jury J, Foley KP, et al.: **Age-Associated Microbial Dysbiosis Promotes Intestinal Permeability, Systemic Inflammation, and Macrophage Dysfunction.** *Cell Host Microbe* 2017, **21**:455-466.e454.
405. Thomson S, Hamilton CA, Hope JC, Katzer F, Mabbott NA, Morrison LJ, Innes EA: **Bovine cryptosporidiosis: impact, host-parasite interaction and control strategies.** *Vet Res* 2017, **48**:42.
406. Tian D, Cao D, Lynn Heffron C, Yugo DM, Rogers AJ, Overend C, Matzinger SR, Subramaniam S, Opriessnig T, LeRoith T, et al.: **Enhancing heterologous protection in pigs vaccinated with chimeric porcine reproductive and respiratory syndrome virus containing the full-length sequences of shuffled structural genes of multiple heterologous strains.** *Vaccine* 2017, **35**:2427-2434.
407. Tian D, Sooryanarain H, Matzinger SR, Gauger PC, Karuppannan AK, Elankumaran S, Opriessnig T, Meng XJ: **Protective efficacy of a virus-vectored multi-component vaccine against porcine reproductive and respiratory syndrome virus, porcine circovirus type 2 and swine influenza virus.** *J Gen Virol* 2017, **98**:3026-3036.
408. Trub M, Barr TA, Morrison VL, Brown S, Caserta S, Rixon J, Ivens A, Gray D: **Heterogeneity of Phenotype and Function Reflects the Multistage Development of T Follicular Helper Cells.** *Front Immunol* 2017, **8**:489.
409. Tsai HY, Matika O, Edwards SM, Antolin-Sanchez R, Hamilton A, Guy DR, Tinch AE, Gharbi K, Stear MJ, Taggart JB, et al.: **Genotype Imputation To Improve the Cost-Efficiency of Genomic Selection in Farmed Atlantic Salmon.** *G3 (Bethesda)* 2017, **7**:1377-1383.
410. Tuffs SW, James DBA, Bestebroer J, Richards AC, Goncheva MI, O'Shea M, Wee BA, Seo KS, Schlievert PM, Lengeling A, et al.: **The Staphylococcus aureus superantigen SEIX is a bifunctional toxin that inhibits neutrophil function.** *PLoS Pathog* 2017, **13**:e1006461.
411. Turner VM, Mabbott NA: **Ageing adversely affects the migration and function of marginal zone B cells.** *Immunology* 2017, **151**:349-362.
412. Turner VM, Mabbott NA: **Structural and functional changes to lymph nodes in ageing mice.** *Immunology* 2017, **151**:239-247.
413. Turner VM, Mabbott NA: **Influence of ageing on the microarchitecture of the spleen and lymph nodes.** *Biogerontology* 2017, **18**:723-738.
414. Tzelos T, Barbeito JS, Nielsen MK, Morgan ER, Hodgkinson JE, Matthews JB: **Strongyle egg reappearance period after moxidectin treatment and its relationship with management factors in UK equine populations.** *Vet Parasitol* 2017, **237**:70-76.
415. Ugrina I, Campbell H, Vuckovic F: **Laboratory Experimental Design for a Glycomic Study.** *Methods Mol Biol* 2017, **1503**:13-19.
416. Uhlemann AC, McAdam PR, Sullivan SB, Knox JR, Khiabanian H, Rabadian R, Davies PR, Fitzgerald JR, Lowy FD: **Evolutionary Dynamics of Pandemic Methicillin-Sensitive Staphylococcus aureus ST398 and Its International Spread via Routes of Human Migration.** *MBio* 2017, **8**.
417. Unger SA, Bogaert D: **The respiratory microbiome and respiratory infections.** *J Infect* 2017, **74 Suppl 1**:S84-s88.
418. Vale PF, Jardine MD: **Infection avoidance behavior: Viral exposure reduces the motivation to forage in female Drosophila melanogaster.** *Fly (Austin)* 2017, **11**:3-9.
419. van Boeckel SR, Davidson DJ, Norman JE, Stock SJ: **Cell-free Fetal DNA and Spontaneous Preterm Birth.** *Reproduction* 2017.
420. van Bunnik BAD, Woolhouse MEJ: **Modelling the impact of curtailing antibiotic usage in food animals on antibiotic resistance in humans.** *R Soc Open Sci* 2017, **4**:161067.
421. Van de Pas R, Hill PS, Hammonds R, Ooms G, Forman L, Waris A, Broilan CE, McKee M, Sridhar D: **Global health governance in the sustainable development goals: Is it grounded in the right to health?** *Global Chall* 2017, **1**:47-60.
422. van Nues R, Schweikert G, de Leau E, Selega A, Langford A, Franklin R, Iosub I, Wadsworth P, Sanguinetti G, Granneman S: **Kinetic CRAC uncovers a role for Nab3 in determining gene expression profiles during stress.** *Nat Commun* 2017, **8**:12.
423. Vander Broek CW, Stevens JM: **Type III Secretion in the Melioidosis Pathogen Burkholderia pseudomallei.** *Front Cell Infect Microbiol* 2017, **7**:255.
424. Vander Broek CW, Zainal Abidin N, Stevens JM: **BipC, a Predicted Burkholderia pseudomallei Type 3 Secretion System Translocator Protein with Actin Binding Activity.** *Front Cell Infect Microbiol* 2017, **7**:333.
425. Vanni S, Moda F, Zattoni M, Bistaffa E, De Cecco E, Rossi M, Giaccone G, Tagliavini F, Haik S, Deslys JP, et al.: **Differential overexpression of SERPINA3 in human prion diseases.** *Sci Rep* 2017, **7**:15637.

426. Vasileiou E, Sheikh A, Butler C, El Ferkh K, von Wissmann B, McMenamin J, Ritchie L, Schwarze J, Papadopoulos NG, Johnston SL, et al.: **Effectiveness of influenza vaccines in asthma: a systematic review and meta-analysis.** *Clin Infect Dis* 2017, **65**:1388-1395.
427. Vaughan-Shaw PG, O'Sullivan F, Farrington SM, Theodoratou E, Campbell H, Dunlop MG, Zgaga L: **The impact of vitamin D pathway genetic variation and circulating 25-hydroxyvitamin D on cancer outcome: systematic review and meta-analysis.** *Br J Cancer* 2017, **116**:1092-1110.
428. Vazquez-Boland JA, Kryptou E, Scortti M: **Listeria Placental Infection.** *MBio* 2017, **8**.
429. Vohra P, Bugarel M, Turner F, Loneragan GH, Hope JC, Hopkins J, Stevens MP: **Quantifying the Survival of Multiple *Salmonella enterica* Serovars in vivo using Massively-parallel Whole Genome Sequencing to Predict Zoonotic Risk.** *Appl Environ Microbiol* 2017.
430. Voss JJ, Ford CA, Petrova S, Melville L, Paterson M, Pound JD, Holland P, Giotti B, Freeman TC, Gregory CD: **Modulation of macrophage antitumor potential by apoptotic lymphoma cells.** *Cell Death Differ* 2017, **24**:971-983.
431. Vukmanovic-Stejic M, Chambers ES, Farinas MS, Sandhu D, Fuentes-Duculan J, Patel N, Agius E, Lacy KE, Turner CT, Larbi A, et al.: **Enhancement of cutaneous immunity during ageing by blocking p38 MAPK induced inflammation.** *J Allergy Clin Immunol* 2017, **S0091-6749**:31766-31769.
432. Wagner S, Lupolova N, Gally DL, Argyle SA: **Convergence of plasmid architectures drives emergence of multi-drug resistance in a clonally diverse *Escherichia coli* population from a veterinary clinical care setting.** *Vet Microbiol* 2017, **211**:6-14.
433. Wakeham K, Kavanagh K, Cuschieri K, Millan D, Pollock KG, Bell S, Burton K, Reed NS, Graham SV: **HPV status and favourable outcome in vulvar squamous cancer.** *Int J Cancer* 2017, **140**:1134-1146.
434. Walker D, Gregory WF, Turnbull D, Rocchi M, Meredith AL, Philbey AW, Sharp CP: **Novel adenoviruses detected in British mustelids, including a unique Aviadenovirus in the tissues of pine martens (*Martes martes*).** *J Med Microbiol* 2017.
435. Walmsley SR, Rupp J: **Hypoxia and host pathogen responses.** *Microbes Infect* 2017, **19**:143.
436. Wang B, McHugh BJ, Qureshi A, Campopiano DJ, Clarke DJ, Fitzgerald JR, Dorin JR, Weller R, Davidson DJ: **IL-1beta-Induced Protection of Keratinocytes against *Staphylococcus aureus*-Secreted Proteases Is Mediated by Human beta-Defensin 2.** *J Invest Dermatol* 2017, **137**:95-105.
437. Wang M, Moynie L, Harrison PJ, Kelly V, Piper A, Naismith JH, Campopiano DJ: **Using the pimeloyl-CoA synthetase adenylation fold to synthesize fatty acid thioesters.** *Nat Chem Biol* 2017, **13**:660-667.
438. Wang-Kan X, Blair JMA, Chirullo B, Betts J, La Ragione RM, Ivens A, Ricci V, Opperman TJ, Piddock LJV: **Lack of AcrB Efflux Function Confers Loss of Virulence on *Salmonella enterica* Serovar Typhimurium.** *MBio* 2017, **8**.
439. Warren WC, Hillier LW, Tomlinson C, Minx P, Kremitzki M, Graves T, Markovic C, Bouk N, Pruitt KD, Thibaud-Nissen F, et al.: **A New Chicken Genome Assembly Provides Insight into Avian Genome Structure.** *G3 (Bethesda)* 2017, **7**:109-117.
440. Warren-Gash C, Childs K, Thornton A, Bhagani S, Demma S, Srivastava A, Leen C, Agarwal K, Rodger AJ, Sabin CA: **Cirrhosis and liver transplantation in patients co-infected with HIV and hepatitis B or C: an observational cohort study.** *Infection* 2017, **45**:215-220.
441. Waters SA, McAtee SP, Kudla G, Pang I, Deshpande NP, Amos TG, Leong KW, Wilkins MR, Strugnell R, Gally DL, et al.: **Small RNA interactome of pathogenic *E. coli* revealed through crosslinking of RNase E.** *Embo j* 2017, **36**:374-387.
442. Watson RL, Bird EJ, Underwood S, Wilbourn RV, Fairlie J, Watt K, Salvo-Chirnside E, Pilkington JG, Pemberton JM, McNeilly TN, et al.: **Sex differences in leucocyte telomere length in a free-living mammal.** *Mol Ecol* 2017, **26**:3230-3240.
443. Wattegedera SR, Corripio-Miyar Y, Pang Y, Frew D, McNeilly TN, Palarea-Albaladejo J, McInnes CJ, Hope JC, Glass EJ, Entrican G: **Enhancing the toolbox to study IL-17A in cattle and sheep.** *Vet Res* 2017, **48**:20.
444. Wear MA, Nowicki MW, Blackburn EA, McNae IW, Walkinshaw MD: **Thermo-kinetic analysis space expansion for cyclophilin-ligand interactions - identification of a new nonpeptide inhibitor using Biacore T200.** *FEBS Open Bio* 2017, **7**:533-549.
445. Wei W, Keogh MJ, Wilson I, Coxhead J, Ryan S, Rollinson S, Griffin H, Kurzawa-Akinibi M, Santibanez-Koref M, Talbot K, et al.: **Mitochondrial DNA point mutations and relative copy number in 1363 disease and control human brains.** *Acta Neuropathol Commun* 2017, **5**:13.
446. Welburn SC, Coleman PG, Zinsstag J: **Rabies Control: Could Innovative Financing Break the Deadlock?** *Front Vet Sci* 2017, **4**:32.
447. Wheeler E, Leong A, Liu CT, Hivert MF, Strawbridge RJ, Podmore C, Li M, Yao J, Sim X, Hong J, et al.: **Impact of common genetic determinants of Hemoglobin A1c on type 2 diabetes risk and diagnosis in ancestrally diverse populations: A transethnic genome-wide meta-analysis.** *PLoS Med* 2017, **14**:e1002383.
448. Whitaker LH, Murray AA, Matthews R, Shaw G, Williams AR, Saunders PT, Critchley HO: **Selective progesterone receptor modulator (SPRM) ulipristal acetate (UPA) and its effects on the human endometrium.** *Hum Reprod* 2017, **32**:531-543.
449. Wilbourn RV, Froy H, McManus MC, Cheynel L, Gaillard JM, Gilot-Fromont E, Regis C, Rey B, Pellerin M, Lemaitre JF, et al.: **Age-dependent associations between telomere length and environmental conditions in roe deer.** *Biol Lett* 2017, **13**.

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450. Wilcox MH, Gerding DN, Poxton IR, Kelly C, Nathan R, Birch T, Cornely OA, Rahav G, Bouza E, Lee C, et al.: **Bezlotoxumab for Prevention of Recurrent Clostridium difficile Infection.** *N Engl J Med* 2017, **376**:305-317.
451. Wilkie H, Riggio V, Matika O, Nicol L, Watt KA, Sinclair R, Sparks AM, Nussey DH, Pemberton JM, Houston RD, et al.: **A candidate gene approach to study nematode resistance traits in naturally infected sheep.** *Vet Parasitol* 2017, **243**:71-74.
452. Wilkinson S, Bishop SC, Allen AR, McBride SH, Skuce RA, Bermingham M, Woolliams JA, Glass EJ: **Fine-mapping host genetic variation underlying outcomes to Mycobacterium bovis infection in dairy cows.** *BMC Genomics* 2017, **18**:477.
453. Will RG, Ironside JW: **Sporadic and Infectious Human Prion Diseases.** *Cold Spring Harb Perspect Med* 2017, **7**.
454. Williams LJ, Fletcher E, Douglas A, Anderson EDC, McCallum A, Simpson CR, Smith J, Moger TA, Peltola M, Mihalicza P, et al.: **Retrospective cohort study of breast cancer incidence, health service use and outcomes in Europe: a study of feasibility.** *Eur J Public Health* 2017.
455. Willocks LJ, Guerendiain D, Austin HI, Morrison KE, Cameron RL, Templeton KE, VRF DEL, Ewing R, Donovan W, Pollock KGJ: **An outbreak of mumps with genetic strain variation in a highly vaccinated student population in Scotland.** *Epidemiol Infect* 2017, **145**:3219-3225.
456. Winters J, Sridhar D: **Earmarking for global health: benefits and perils of the World Bank's trust fund model.** *Bmj* 2017, **358**:j3394.
457. Wong F, Sargison N: **Assessment of gastrointestinal nematode infection, anthelmintic usage and husbandry practices on two small-scale goat farms in Malaysia.** *Trop Anim Health Prod* 2017.
458. Xiao CT, Luo Z, Lv SL, Opriessnig T, Li RC, Yu XL: **Identification and characterization of multiple porcine astrovirus genotypes in Hunan province, China.** *Arch Virol* 2017, **162**:943-952.
459. Yeung A, Weir A, Austin H, Morrison K, Inverarity D, Sherval J, Henderson N, Joshi S, Ure R, McAuley A: **Assessing the impact of a temporary class drug order on ethylphenidate-related infections among people who inject drugs in Lothian, Scotland: an interrupted time-series analysis.** *Addiction* 2017, **112**:1799-1807.
460. Young VJ, Ahmad SF, Duncan WC, Horne AW: **The role of TGF-beta in the pathophysiology of peritoneal endometriosis.** *Hum Reprod Update* 2017, **23**:548-559.
461. Yu C, Fitzpatrick A, Cong D, Yao C, Yoo J, Turnbull A, Schwarze J, Norval M, Howie SEM, Weller RB, et al.: **Nitric oxide induces human CLA+CD25+Foxp3+ regulatory T cells with skin homing potential.** *J Allergy Clin Immunol* 2017, **140**:1441-1444.
462. Yuan M, Vasquez-Valdivieso MG, McNae IW, Michels PAM, Fothergill-Gilmore LA, Walkinshaw MD: **Structures of Leishmania Fructose-1,6-Bisphosphatase Reveal Species-Specific Differences in the Mechanism of Allosteric Inhibition.** *J Mol Biol* 2017, **429**:3075-3089.
463. Zandee SEJ, O'Connor RA, Mair I, Leech MD, Williams A, Anderton SM: **IL-10-producing, ST2-expressing Foxp3(+) T cells in multiple sclerosis brain lesions.** *Immunol Cell Biol* 2017, **95**:484-490.
464. Zhang S, Incardona B, Qazi SA, Stenberg K, Campbell H, Nair H: **Cost-effectiveness analysis of revised WHO guidelines for management of childhood pneumonia in 74 Countdown countries.** *J Glob Health* 2017, **7**:010409.
465. Zhong W, Cui L, Goh BC, Cai Q, Ho P, Chionh YH, Yuan M, Sahili AE, Fothergill-Gilmore LA, Walkinshaw MD, et al.: **Allosteric pyruvate kinase-based "logic gate" synergistically senses energy and sugar levels in Mycobacterium tuberculosis.** *Nat Commun* 2017, **8**:1986.
466. Zikova A, Verner Z, Nenarokova A, Michels PAM, Lukes J: **A paradigm shift: The mitoproteomes of procyclic and bloodstream Trypanosoma brucei are comparably complex.** *PLoS Pathog* 2017, **13**:e1006679.