

**MoreDun Research Institute Refereed Publications 2006**

**Agerholm J, Aalbaek B, Fog-Larsen AM, Boye M, Holm E, Jensen TK, Lindhardt T, Larsen LE, Buxton D.** Veterinary and medical aspects of abortion in Danish sheep. *APMIS*, 114, 146-152

**Bartley DJ, Donnan AA, Jackson F, Sargison N, Mitchell GBB, Jackson E.** A small scale survey of ivermectin resistance in sheep nematodes using the faecal egg count reduction test on samples collected from Scottish sheep. *Veterinary Parasitology*, 137, 112-118

**Bartley PM, Wright S, Sales J, Chianini F, Buxton D, Innes EA.** Long term passage of tachyzoites in tissue culture can attenuate virulence of *Neospora caninum* in vivo. *Parasitology*, 133, 421-432

**Batycka M, Inglis NF, Cook K, Adam A, Fraser-Pitt D, Smith DGE, Main L, Lubben A, Kessler BM.** Ultra-fast tandem mass spectrometry scanning combined with monolithis column liquid chromatography increases throughput in proteomic analysis. *Rapid Communications in Mass Spectrometry*, 20, 2074-2080

**Brown JJ, Ollier W, Thomson W, Matthews JB, Carter SD, Binns M, Pinchbeck G, Clegg PD.** TNF alpha SNP haplotype frequencies in equidae. *Tissue Antigens*, 67, 377-382

**Buxton D.** Wildlife and the risk to humans and domestic animals: A case for disease surveillance. *Veterinary Journal*, 171, 204-205

**Buxton D, Rodger SM, Maley SW, Wright SE.** Toxoplasmosis: the possibility of vertical transmission. *Small Ruminant Research*, 62, 43-46

**Caporale M, Cousens C, Centorame P, Pinot C, De Las Heras M, Palmarini M.** Expression of the Jaagsiekte sheep retrovirus envelope glycoprotein is sufficient to induce lung tumors in sheep. *Journal of Virology*, 80, 8030-8037

**Clark JR, March JB.** Bacteriophages and biotechnology: vaccines, gene therapy and antibacterials. *Trends of Biotechnology*, 24, 212-218

**Cottee PA, Nisbet AJ, Abs El Ost YG, Webster TL, Gasser RB.** Construction of gender enriched cDNA archives for adult *Oesophagostomum dentatum* by suppressive subtractive hybridization and a microarray analysis of expressed sequence tags. *Parasitology*, 132, 691-708

**Craig H, Wastling JM, Knox D.** A preliminary proteomic survey of the in vitro excretory/secretory products of fourth-stage larval and adult *Teladorsagia circumcincta*. *Parasitology*, 132, 535-543

**Dagleish MP, Patterson IAP, Foster G, Reid RJ, Brain LTA, Buxton D.** Polioencephalomalacia in a juvenile hooded seal (*Cystophora cristata*). *Veterinary Record*, 158, 516-518

**Dagleish MP, Patterson IAP, Foster G, Reid RJ, Linton C, Buxton D.** Intracranial granuloma caused by asporogenic *Aspergillus fumigatus* in a harbour porpoise (*Phocoena phocoena*). *Veterinary Record*, 159, 458-460

**Dewals B, Boundry C, Gillet L, Markine-Gorlaynoff N, de Leval L, Haig DM, Vanderplasschen A.** Cloning of the genome of Alcelaphine herpesvirus 1 as an infectious and pathogenic bacterial artificial chromosome. *Journal of General Virology*, 87, 509-517

**Dubey JP, Buxton D, Wouda W.** Pathogenesis of bovine neosporosis. *Journal of Comparative Pathology*, 134, 267-289

**Eckersall PD, Young FJ, Nolan AM, Knight CH, McComb C, Waterston MM, Hogarth CJ, Scott EM, Fitzpatrick JL.** Acute phase proteins in bovine milk in an experimental model of *Staphylococcus aureus* subclinical mastitis. *Journal of Dairy Science*, 89, 1488-1501

**Ellis SA, Bontrop RE, Antczak DF, Ballingall K, Davies CJ, Kaufman J, Kennedy LJ, Robinson J, Smith DM, Stear MJ, Stet RJ, Waller L, Marsh SG.** ISAG/IUIS-VIC Comparative MHC nomenclature committee report. *Immunogenetics*, 57, 953-958

**Entrican G, Wheelhouse NM.** Immunity in the female sheep reproductive tract. *Veterinary Research*, 37, 1-15

**Escala J, Gatherer ME, Voute L, Love B.** Application of the Cr-EDTA urinary recovery test for assessment of intestinal permeability in the horse. *Research in Veterinary Science*, 80, 181-185

**Fitzpatrick JL, Scott EM, Nolan AM.** Assessment of pain and welfare in sheep. *Small Ruminant Research*, 62, 55-61

**Fontaine MC, Baird G, Connor KM, Rudge K, Sales J, Donachie W.** Vaccination confers significant protection of sheep against infection with a virulent United Kingdom strain of *Corynebacterium pseudotuberculosis*. *Vaccine*, 24, 5986-5996

**Fontaine MC, Smith DG.** Microbial biofilms: does breaking the microbes' community spirit hold the key to beating persistent mastitis. *Veterinary Journal*, 171, 398-407

**Fraser SJ, Nettleton PF, Dutia BM, Haig DM, Russell GC.** Development of an enzyme-linked immunosorbent assay for the detection of antibodies against malignant catarrhal fever in cattle serum. *Veterinary Microbiology*, 116, 21-28

**Gallina L, Dal Pozzo F, McInnes CJ, Cardeti G, Cuercio A, Battilani M, Ciulli S, Scagliarini A.** A real time PCR assay for the detection and quantification of orf virus. *Journal of Virological Methods*, 134, 140-145

**Geldhof P, Molloy C, Knox DP.** Combinatorial RNAi on intestinal cathepsin B-like proteinases in *Caenorhabditis elegans* questions the perception of their role in nematode biology. *Molecular & Biochemical Parasitology*, 145, 128-132

**Geldhof P, Murray L, Couthier A, Gilleard JS, McLauchlan G, Knox DP, Britton C.** Testing the efficacy of RNA interference in *Haemonchus contortus*. *International Journal for Parasitology*, 36, 801-810

**Gonzalez L, Dagleish MP, Bellworthy SJ, Siso S, Stack MJ, Chaplin MJ, Davis LA, Hawkins SAC, Hughes J, Jeffrey M.** Postmortem diagnosis of preclinical and clinical scrapie in sheep by the detection of disease-associated PrP in their rectal mucosa. *Veterinary Record*, 158, 325-331

**Gonzalez C, Moreno L, Small J, Jones D, Sanchez-Bruni S.** A liquid chromatographic method, with fluorometric detection for the determination of enrofloxacin and ciprofloxacin in plasma and endometrial tissue of mares. *Analytica Chimica Acta*, 560, 227-234

**Grobben AH, Steele PJ, Somerville RA, Taylor DM.** Inactivation of transmissible spongiform encephalopathy agents during the manufacture of dicalcium phosphate from bone. *Veterinary Record*, 158, 361-366

**Gurnell J, Rushton SP, Lurz PWW, Sainsbury AQ, Nettleton P, Shirley MDF, Bruemmer C, Geddes N.** Squirrel poxvirus: Landscape scale strategies for managing disease threat. *Biological Conservation*, 131, 287-295

**Harmeyer SS, Murray J, Imrie C, Wiseman A, Salt JS.** Efficacy of a live bovine respiratory syncytial virus vaccine in seropositive calves. *Veterinary Record*, 159, 456-457

**Hodgson JC.** Endotoxin and mammalian host responses during experimental disease. *Journal of Comparative Pathology*, 135, 157-175

**Hodgson JC, Watkins CA, Bayne CW.** Contribution of respiratory burst activity to innate immune function and the effects of disease status and agent on chemiluminescence responses by ruminant phagocytes in vitro. *Veterinary Immunology and Immunopathology*, 112, 12-23

**Hoste H, Jackson F, Athanasiadou S, Thamsborg S, Hoskin S.** The effects of tannin-rich plants on parasitic nematodes in ruminants. *Trends in Parasitology*, 22, 253-261

**Innes EA, Mattsson JG.** Neospora caninum emerges from the shadow of Toxoplasma gondii. *Trends in Parasitology*, E-publication Dec 19

**Jackson F, Miller J.** Alternative approaches to control – Quo vadit? *Veterinary Parasitology*, 139, 371-384

**Jeffrey M, Gonzalez L, Espenes A, Press CMcL, Martin S, Chaplin M, Davis L, Landsverk T, MacAldowie C, Eaton S, McGovern G.** Transportation of prion protein across the intestinal mucosa of scrapie-susceptible and scrapie-resistant sheep. *Journal of Pathology*, 209, 4-14

**Katzer F, Ngugi D, Oura C, Bishop R, Walker A, McKeever DJ.** Extensive genotypic diversity in a recombining population of the apicomplexan parasite Theileria parva. *Infection and Immunity*, 74, 5456-5464

**Kazwala RR, Kusiluka L, Sinclair K, Sharp J, Daborn C.** The molecular epidemiology of Mycobacterium bovis infections in Tanzania. *Veterinary Microbiology*, 112, 201-210

**Knox D.** Proteinase inhibitors and helminth parasite infection. *Parasite Immunology*, 29(7), 57-71

**Lazari O, Kipar A, Johnson DR, Selkirk ME, Matthews JB.** Up-regulated expression of the  $\alpha 7$  nicotinic acetylcholine receptor subunit on inflammatory infiltrates during Dictyocaulus viviparus infection. *Parasite Immunology*, 28, 429-437

**Low AS, Dziva F, Torres AG, Martinez JL, Rosser T, Naylor S, Spears K, Holden N, Mahajan A, Findlay J, Sales J, Smith DG, Low JC, Stevens MP, Gally DL.** Cloning expression and characterization of fimbrial operon F9 from enterohemorrhagic *Escherichia coli* O157:H7. *Infection and Immunity*, 74, 2233-2244

**Low AS, Holden N, Rosser T, Roe AJ, Constantinidou C, Hobman JL, Smith DG, Low JC, Gally DL.** Analysis of fimbrial gene clusters and their expression in enterohaemorrhagic *Escherichia coli* O157:H7. *Environmental Microbiology*, 8, 1033-47

**Maley SW, Buxton D, Macaldowie CN, Anderson IE, Wright SE, Bartley PM, Esteban-Redondo I, Hamilton CM, Storset AK, Innes EA.** Characterization of the immune response in the placenta of cattle experimentally infected with *Neospora caninum* in early gestation. *Journal of Comparative Pathology*, 135, 130-141

**March JB.** Modern vaccine adjuvants and delivery systems: second international conferences. *Expert Review of Vaccines*, 5(6), 735-739

**March JB, Jepson CD, Clark JR, Totsika M, Culcutt MJ.** Phage library screening for the rapid identification and in vivo testing of candidate genes for a DNA vaccine against *Mycoplasma mycoides* subsp. *Mycoides* small colony biotype. *Infection and Immunity*, 74, 167-174

**Marriott L, Willoughby K, Chianini F, Dagleish MP, Scholes S, Robinson AC, Gould EA, Nettleton PF.** Detection of louping-ill virus in clinical specimens from mammals and birds using TaqMan RT-PCR. *Journal of Virological Methods*, 137, 21-28

**Matthews JB.** Veterinary parasite immunology (special issue). *Parasite Immunology*, 28, 271-273

**Matthews JB, Lazar O, Davidson AJ, Warren S, Selkirk ME.** A tryptophan amphiphilic tetramerization domain-containing acetylcholinesterase from the bovine lungworm *Dictyocaulus viviparus*. *Parasitology*, 133, 381-387

**McAleese SM, Brown JK, Macrae AI, Mackellar A, Huntley JF, Miller HRP.** Cloning and expression of the extra-cellular part of the alpha chain of the equine high-affinity IgE receptor and its use in the detection of IgE. *Veterinary Immunology and Immunopathology*, 110, 187-191

**McDevitt R, Nisbet AJ, Huntley JF.** Ability of a proteinase inhibitor cocktail to kill poultry red mite, *Dermanyssus gallinae* in an in vitro feeding system. *Veterinary Parasitology*, 141, 380-385

**McInnes CJ, Wood AR, Thomas K, Sainsbury AW, Gurnell J, Joshuadein F, Nettleton P.** Genomic characterization of a novel poxvirus contributing to the decline of the red squirrel (*Sciurus vulgaris*) in the UK. *Journal of General Virology*, 87, 2115-2125

**McKeever DJ.** *Theileria parva* and the bovine CTL response: down but not out? *Parasite Immunology*, 28, 339-345

**McNeilly TN, Brown JK, Harkiss G.** Differential expression of cell surface markers by ovine respiratory tract dendritic cells. *Journal of Histochemistry & Cytochemistry*, 54, 1021-1030

**Newlands GFJ, Skuce PJ, Nisbet AJ, Redmond DL, Smith SK, Pettit D, Smith WD.** Molecular characterization of a family of metalloendopeptidases from the intestinal brush border of *Haemonchus contortus*. *Parasitology*, 113, 357-368

**Nikolaou S, Hu M, Chilton NB, Nisbet AJ, Presidente PJ, Gasser RB.** Class II myosins in nematodes – genetic relationships fundamental and applied implications. *Biotechnology Advances*, 24, 338-350

**Nisbet AJ, Geldhof P, Pellegrino M, Gasser R.** Characterisation of a DM domain containing transcription factor from *Trichostrongylus vitrinus*. *Parasitology International*, 55, 155-157

**Nisbet AJ, Huntley JF.** Progress and opportunities in the development of vaccines against mites, fleas and myiasis-causing flies of veterinary importance. *Parasite Immunology*, 28, 165-172

**Nisbet AJ, Huntley JF, Mackellar A, Sparks N, McDevitt R.** A house dust mite allergen homologue from poultry red mite *Dermanyssus gallinae* (De Geer). *Parasite Immunology*, 28, 401-405

**Nisbet AJ, Mackellar A, Wright HW, Brennan GP, Chua KY, Cheong N, Thomas JE, Huntley, JF.** Molecular characterization, expression and localization of tropomyosin and paramyosin immunodominant allergens from sheep scab mites (*Psoroptes ovis*). *Parasitology*, 133, 515-523

**Oliveira AM, Mackellar A, Hume L, Huntley JF, Thoday KL, van den Broek AHM.** Immune responses to *Staphylococcus aureus* and *Psoroptes* in sheep infected with *P. ovis* – the sheep scab mite. *Veterinary Immunology and Immunopathology*, 113, 64-72

**Oliver EM, Skuce PJ, McNair CM, Knox DP.** Identification and characterization of an asparaginyl proteinase (legumain) from the parasitic nematode *Haemonchus contortus*. *Parasitology*, 133, 237-244

**O'Reilly KM, Green MJ, Peeler EJ, Fitzpatrick JK, Green LE.** Investigation of risk factors for clinical mastitis in British dairy herds with bulk milk somatic cell counts less than 150,000 cells/ml. *Veterinary Record*, 158, 649-653

**Parra A, Garcia A, Inglis N, Tato A, Alonso JM, Hermoso de Mendoza M, Hermoso de Mendoza J, Larrasa J.** An epidemiological evaluation of *Mycobacterium bovis* infections in wild game animals of the Spanish Mediterranean ecosystem. *Research in Veterinary Science*, 80, 140-146

**Redmond D, Knox DP.** Further protection studies using recombinant forms of *Haemonchus contortus* cysteine proteinases. *Parasite Immunology*, 28, 213-219

**Redmond D, Smith S, Halliday A, Smith WD, Jackson F, Knox DP, Matthews J.** An immunogenic cathepsin F secreted by the parasitic stages of *Teladorsagia circumcincta*. *International Journal for Parasitology*, 36, 277-286

**Rodger SM, Maley SW, Wright SE, Mackellar A, Wesley F, Sales J, Buxton D.** Role of endogenous transplacental transmission in toxoplasmosis in sheep. *Veterinary Record*, 159, 768-772

**Rocchi M, Ballingal K, MacHugh N, McKeever D.** The kinetics of *Theileria parva* infection and lymphocyte transformation in vitro. *International Journal for Parasitology*, 36, 771-778

**Rushton SP, Lurz PWW, Gurnell J, Nettleton P, Bruemmer C, Shirley MD, Sainsbury AW.** Disease threat posed by alien species: the role of a poxvirus in the decline of the native red squirrel in Britain. *Epidemiological Infection*, 134, 521-533

**Sanchez Bruni SF, Jones DG, McKellar QA.** Pharmacological approaches towards rationalizing the use of endoparasitic drugs in small animals. *Journal of Veterinary Pharmacology and Therapeutics*, 29, 443-457

**Sargison ND, Jackson F, Barley DJ, Wilson DJ, Stenhouse LJ, Penny CD.** Observations on the emergence of multiple anthelmintic resistance in sheep flocks in the south east of Scotland. *Veterinary Parasitology*, E publication, 28 November

**Selkirk ME, Lazari O, Matthews JB.** Functional genomics of nematode acetylcholinesterases. *Parasitology*, 131, S3-S18

**Smith WD, Zarlenga DS.** Developments and hurdles in generating vaccines for controlling helminth parasites of grazing ruminants. *Veterinary Parasitology*, 139, 347-359

**Thonur L, Russell GC, Stewart JP, Haig DM.** Differential transcription of ovine herpesvirus 2 genes in lymphocytes from reservoir and susceptible species. *Virus genes*, 32, 27-35

**Twomey DF, Campbell I, Cranwell MP, Nettleton PF, Sayers G.** Multisystemic necrotizing vasculitis in a pygmy goat (*Capra hircus*). *Veterinary Record*, 158, 867-869

**Tzamaloukas O, Athanasiadou S, Kyriazakis I, Huntley JF, Jackson F.** The effect of chicory (*Cichorium intybus*) and sulla (*Hedysarum coronarium*) on larval development and mucosal cell responses of growing lambs challenged with *Teladorsagia circumcincta*. *Parasitology*, 132, 419-426

**Vilcek S, Nettleton P.** Pestiviruses in wild animals. *Veterinary Microbiology*, 116, 1-12

**Visser A, Geldhof P, De Maere V, Knox DP, Vercruisse J, Claerebout E.** Efficacy and specificity of RNA interference in larval life stages of *Ostertagia ostertagi*. *Parasitology*, 133, 777-785

**Walsh TK, Donnan A, Jackson F, Skuce P, Wolstenholme AJ.** Detection and measurement of benzimidazole resistance alleles in *Haemonchus contortus* using real time PCR with locked nucleic acid Taqman probes. *Veterinary Parasitology*, E publication, 28 November

**Wheelhouse N, Dowidar N, Dejong C, Garden O, Powell J, Barber M, Sangster K, Maingay J, Ross J.** The effects of macrophage migratory inhibitory factor on acute-phase protein production in primary human hepatocytes. *International Journal of Molecular Medicine*, 18, 957-961

**Willoughby K, Valdazo-Gonzalez B, Maley M, Gilray J, Nettleton PF.** Development of a real time RT-PCR to detect and type ovine pestiviruses. *Journal of Virology*, 132, 187-194

**Yatsuda AP, Bakker N, Knox DP.** Identification of secreted cysteine proteases from the parasitic nematode *Haemonchus contortus* detected by biotinylated inhibitors. *Infection and Immunity*, 74, 1989-1993