



PUBLICATIONS

CHAPTER CONTENT

PUBLICATIONS

71 During 2006-07

73 Prior to 2006

DURING 2006-07

A. PEER-REVIEWED PUBLICATIONS

Aguilar, D., Infante, E., Martin, C., Gormley, E., Gicquel, B., Hernandez Pando, R., 2007. Immunological responses and protective immunity against tuberculosis conferred by vaccination of Balb/c mice with the attenuated *Mycobacterium tuberculosis* (phoP) SO2 strain. *Clinical and Experimental Immunology* 147, 330-338.

Barrett, D.J., Clegg, T.A., Healy, A.M., Doherty, M.L., 2006. A study of dry cow therapy and effects on SCC in 10 Irish dairy herds. *Journal of Veterinary Medicine Series A* 53, 140-144.

Collins, J.D., 2006. Tuberculosis in cattle: strategic planning for the future. *Veterinary Microbiology* 112, 369-381.

Corner, L.A., 2006. The role of wild animal populations in the epidemiology of tuberculosis in domestic animals: how to assess the risk. *Veterinary Microbiology* 112, 303-312.

Corner, L.A., Costello, E., Lesellier, S., O'Meara, D., Sleeman, D.P., Gormley, E., 2007. Experimental tuberculosis in the European badger (*Meles meles*) after endobronchial inoculation of *Mycobacterium bovis*: I. Pathology and bacteriology. *Research in Veterinary Science* 83, 53-62.

Costello, E., Flynn, O., Quigley, F., O'Grady, D., Griffin, J., Clegg, T., McGrath, G., 2006. Genotyping of *Mycobacterium bovis* isolates from badgers in four areas of the Republic of Ireland by restriction fragment length polymorphism analysis. *Veterinary Record* 159, 619-623.

Davison, K.E., Hughes, L., Gormley, E., Lesellier, S., Costello, E., Corner, L.A.L., 2007. Evaluation of the anaesthetic effects of combinations of ketamine, medetomidine, romifidine and butorphanol in European badgers (*Meles meles*). *Veterinary Anaesthesia and Analgesia* 34, 394-402.

Frankena, K., White, P.W., O'Keeffe, J., Costello, E., Martin, S.W., van Grevenhof, I., More, S.J., 2007. Quantification of the relative efficiency of factory surveillance in the disclosure of tuberculosis lesions in attested Irish cattle. *Veterinary Record* 161, 679-684.

Gormley, E., Doyle, M.B., Fitzsimons, T., McGill, K., Collins, J.D., 2006. Diagnosis of *Mycobacterium bovis* infection in cattle by use of the gamma-interferon (Bovigam®) assay. *Veterinary Microbiology* 112, 171-179.

Martin, C., Williams, A., Hernandez-Pando, R., Cardona, P.J., Gormley, E., Bordat, Y., Soto, C.Y., Clark, S.O., Hatch, G.J., Aguilar, D., Ausina, V., Gicquel, B., 2006. The live *Mycobacterium tuberculosis* phoP mutant strain is more attenuated than BCG and confers protective immunity against tuberculosis in mice and guinea pigs. *Vaccine* 24, 3408-3419.

Meade K.G., Gormley, E., Doyle, M.B., Fitzsimons, T., O'Farrelly, C., Costello, E., Keane, J., Zhao, Y., MacHugh, D.E., 2006. Innate gene repression associated with *Mycobacterium bovis* infection in cattle: toward a gene signature of disease. *BMC Genomics* 8, 400.

Meade K.G., Gormley, E., Park, S.D., Fitzsimons, T., Rosa, G.J., Costello, E., Keane J., Coussens, P.M., MacHugh, D.E., 2006. Gene expression profiling of peripheral blood mononuclear cells (PBMC) from *Mycobacterium bovis* infected cattle after *in vitro* antigenic stimulation with purified protein derivative of tuberculin (PPD). *Veterinary Immunology and Immunopathology* 113, 73-89.

More, S.J., 2007. Shaping our future: animal health in a global trading environment. *Irish Veterinary Journal* 60, 541-549.

More, S.J., 2007. Progress in Ireland towards the eradication of bovine tuberculosis. *UK Vet Livestock* 12, 60-63.

More, S.J., Clegg, T.A., McGrath, G., Collins, J.D., Corner, L.A.L., Gormley, E., 2007. Does reactive badger culling lead to an increase in tuberculosis in cattle? *Veterinary Record* 161, 208-209.

More, S.J., Good, M., 2006. The tuberculosis eradication programme in Ireland: a review of scientific and policy advances since 1988. *Veterinary Microbiology* 112, 239-51.

Murphy, T.M., Fahy, K.N., McAuliffe, A., Forbes, A.B., Clegg, T.A., O'Brien, D.J., 2006. A study of helminth parasites in culled cows from Ireland. *Preventive Veterinary Medicine* 76, 1-10.

Olea-Popelka, F.J., Butler, D., Lavin, D., McGrath, G., O'Keeffe, J., Kelton, D., Berke, O., More, S., Martin, S., 2006. A case study of bovine tuberculosis in an area of County Donegal, Ireland. *Irish Veterinary Journal* 59, 683-690.

Olea-Popelka, F.J., Phelan, J., White, P.W., McGrath, G., Collins, J.D., O'Keeffe, J., Duggan, M., Collins, D.M., Kelton, D.F., Berke, O., More, S.J. and Martin, S.W., 2006. Quantifying badger exposure and the risk of bovine tuberculosis for cattle herds in County Kilkenny, Ireland. *Preventive Veterinary Medicine* 75, 34-36.

B. BOOKS/BOOK CHAPTERS

Quinn, P.J., Collins, J.D., 2006. The effect of wildlife reservoirs of *Mycobacterium bovis* on programmes for the eradication of tuberculosis in cattle in Ireland. In *Mycobacterium bovis* Infection in Animals and Humans, 2nd Ed., C.O. Thoen, J.H. Steele, M.J. Gilsdorf (eds), Blackwell Press, London. pp.124-135.

C. SCIENTIFIC OPINIONS

(J.D. Collins [UCD CVERA] and J.M. Griffin [DAFF] with other members of the Scientific Panel on Biological Hazards of the European Food Safety Authority [EFSA])

Opinion of the Scientific Panel on Biological Hazards (BIOHAZ) on 'Certain aspects related to the feeding of animal proteins to farm animals'. The EFSA Journal 576 (2007), 1-41.

Opinion of the Scientific Panel on Biological Hazards (BIOHAZ) on 'The assessment of the likelihood of the infectivity in SRM derived from cattle at different age groups estimated by back calculation modelling'. The EFSA Journal 476 (2007), 1-47.

Opinion of the Scientific Panel on Biological Hazards (BIOHAZ) on 'Certain aspects related to the risk of Transmissible Spongiform Encephalopathies (TSEs) in ovine and caprine animals'. The EFSA Journal 466 (2007), 1-10.

Opinion of the Scientific Panel on Biological Hazards (BIOHAZ) on 'The revision of the Geographical BSE Risk'. The EFSA Journal 463 (2007), 1-35.

Opinion of the Scientific Panel on Biological Hazards (BIOHAZ) on 'The quantitative risk assessment on the residual BSE risk in sheep meat and meat products'. The EFSA Journal 442 (2007), 1-44.

Opinion of the Scientific Panel on Biological Hazards (BIOHAZ) on the 'Breeding programme for TSE resistance in sheep'. The EFSA Journal 382 (2006), 1-46.

Opinion of the Scientific Panel on Biological Hazards on the 'Quantitative assessment of the human BSE risk posed by bovine vertebral column including dorsal root ganglia with respect to residual BSE risk'. The EFSA Journal 359 (2006), 1-14.

Opinion of the Scientific Panel on Biological Hazards (BIOHAZ) on 'An assessment of the public and animal health risks associated with the adoption of a visual inspection system in veal calves raised in a Member State (or part of a Member State) considered free of tuberculosis'. The EFSA Journal 358 (2006), 1-15.

Opinion of the Scientific Panel on Biological Hazards (BIOHAZ) on the 'Quantitative assessment of the human BSE risk posed by gelatine with respect to residual BSE risk'. The EFSA Journal 312 (2006), 1-29.

D. ACADEMIC THESES

Lesellier, S., 2007. Immunological responses of European badgers (*Meles meles*) vaccinated with BCG and/or experimentally challenged with *Mycobacterium bovis*. PhD thesis, University College Dublin, Ireland.

Olea-Popelka, F.J., 2007. The identification of factors relevant to the control of bovine and badger tuberculosis in Ireland. PhD thesis, University of Guelph, Canada.

Wolfe, D.M., 2007. Studies on bovine tuberculosis (*Mycobacterium bovis*) in cattle in Ireland. MSc thesis, University of Guelph, Canada.

PRIOR TO 2006

A. PEER-REVIEWED PUBLICATIONS

Collins, J.D., 2001. Tuberculosis in cattle: new perspectives. *Tuberculosis* 81, 17-21.

Collins, J.D., 1999. Tuberculosis in cattle: reducing the risk of herd exposure. *UK Vet* 5, 35-39.

Collins, J.D., 1999. Tuberculosis in cattle: interpretation and application of tuberculin test and post-mortem data. *UK Vet* 5, 40-44.

Collins, D.M., de Lisle, G.W., Collins, J.D., Costello, E., 1994. DNA restriction fragment typing of *Mycobacterium bovis* isolates from cattle and badgers in Ireland. *Veterinary Record* 134, 681-682.

Collins, J.D., Wall, P.G., 2004. Food safety and animal production systems: controlling zoonoses at farm level. *Revue scientifique et technique de l'Office international des épizooties* 23, 685-700.

Corner, L.A., Pfeiffer, D.U., Abbott, K.A., 2004. The respiratory tract as a hypothetical route of infection of cattle with *Mycobacterium avium* subspecies *paratuberculosis*. *Australian Veterinary Journal* 82, 170-173.

Fend, R., Geddes, R., Lesellier, S., Vordermeier, H.M., Corner, L.A., Gormley, E., Costello, E., Hewinson, R.G., Marlin, D.J., Woodman, A.C., Chambers, M.A., 2005. Use of an electronic nose to diagnose *Mycobacterium bovis* infection in badgers and cattle. *Journal of Clinical Microbiology* 43, 1745-1751.

Gormley, E., Collins, J.D., 2000. The development of wildlife control strategies for eradication of tuberculosis in cattle in Ireland. *Tubercle and Lung Disease* 80, 229-236.

Gormley, E., Costello, E., 2003. Tuberculosis and badgers: new approaches to diagnosis and control. *Journal of Applied Microbiology* 94 Suppl., 80S-86S.

Gormley, E., Doyle, M.B., McGill, K., Costello, E., Good, M., Collins, J.D., 2004. The effect of the tuberculin test and the consequences of a delay in blood culture on the sensitivity of a gamma-interferon assay for the detection of *Mycobacterium bovis* infection in cattle. *Veterinary Immunology and Immunopathology* 102, 413-420.

Grange, J.M., Collins, J.D., O'Reilly, L.M., Costello, E., Yates, M.D., 1990. Identification and characterisation of *Mycobacterium bovis* isolated from cattle, badgers and deer in the Republic of Ireland. *Irish Veterinary Journal* 43, 33-35.

Griffin, J.M., Haehsy, T., Lynch, K., Salman, M.D., McCarthy, J., Hurley, T., 1993. The association of cattle husbandry practices, environmental factors and farmer characteristics with the occurrence of chronic bovine tuberculosis in dairy herds in the Republic of Ireland. *Preventive Veterinary Medicine* 17, 145-160.

Griffin, J.M., Martin, S.W., Thorburn, M.A., Eves, J.A., Hammond, R.F., 1996. A case-control study on the association of selected risk factors with the occurrence of bovine tuberculosis in the Republic of Ireland. *Preventive Veterinary Medicine* 27, 75-87 (also 27, 217-229).

Griffin, J.M., More, S.J., Clegg, T.A., Collins, J.D., O'Boyle, I., Williams, D.H., Kelly, G.E., Costello, E., Sleeman, D.P., O'Shea, F., Duggan, M., Murphy, J., Lavin, D.P.T., 2005. Tuberculosis in cattle: the results of the four-area project. *Irish Veterinary Journal* 58, 629-636.

Griffin, J.M., Williams, D.H., Kelly, G.E., Clegg, T.A., O'Boyle, I., Collins, J.D., More, S.J., 2005. The impact of badger removal on the control of tuberculosis in cattle herds in Ireland. *Preventive Veterinary Medicine* 67, 237-266.

Hammond, R.F., McGrath, G., Martin, S.W., 2001. Irish soil and land-use classifications as predictors of numbers of badgers and badger setts. *Preventive Veterinary Medicine* 51, 137-148.

Healy, A.M., Morgan, K.L., Hannon, D., Collins, J.D., Weavers, E., Doherty, M.L., 2004. Postal questionnaire survey of scrapie in sheep flocks in Ireland. *Veterinary Record* 155, 493-494.

Healy, A.M., Hannon, D., Morgan, K.L., Weavers, E., Collins, J.D., Doherty, M.L., 2004. A paired casecontrol study of risk factors for scrapie in Irish sheep flocks. *Preventive Veterinary Medicine* 64, 73-83.

Healy, A.M., Hanlon, A.J., Weavers, E., Collins, J.D., Doherty, M.L., 2002. A behavioural study of scrapie-affected sheep. *Applied Animal Behaviour Science* 79, 89-102.

Healy, A.M., Weavers, E., McElroy, M., Gomez-Parada, M., Collins, J.D., O'Doherty, E., Sweeney, T., Doherty, M.L., 2003. The clinical neurology of scrapie in Irish sheep. *Journal of Veterinary Internal Medicine* 17, 908-916.

Martin, S.W., Eves, J.A., Dolan, L.A., Hammond, R.F., Griffin, J.M., Collins, J.D., Shoukri, M.M., 1997. The association between the

bovine tuberculosis status of herds in the East Offaly Project Area, and the distance to badger setts, 1988-1993. *Preventive Veterinary Medicine* 31, 113-125.

Olea-Popelka, F.J., Flynn, O., Costello, E., McGrath, G., Collins, J.D., O'Keeffe, J., Kelton, D.F., Berke, O., Martin, S.W., 2005. Spatial relationship between *Mycobacterium bovis* strains in cattle and badgers in four areas in Ireland. *Preventive Veterinary Medicine* 71, 57-70.

Olea-Popelka, F.J., Griffin, J.M., Collins, J.D., McGrath, G., Martin, S.W., 2003. Bovine tuberculosis in badgers in four areas in Ireland: does tuberculosis cluster? *Preventive Veterinary Medicine* 59, 103-111.

Olea-Popelka, F.J., White, P.W., Collins, J.D., O'Keeffe, J., Kelton, D.F., Martin, S.W., 2004. Breakdown severity during a bovine tuberculosis episode as a predictor of future herd breakdowns in Ireland. *Preventive Veterinary Medicine* 63, 163-172.

Ó Máirtín, D., Williams, D.H., Dolan, L., Eves, J.A., Collins, J.D., 1998. The influence of selected herd factors and a badger-intervention tuberculosis-control programme on the risk of a herd-level trade restriction to a bovine population in Ireland. *Preventive Veterinary Medicine* 35, 79-90.

Ó Máirtín, D., Williams, D.H., Griffin, J.M., Dolan, L.A., Eves, J.A., 1998. The effect of a badger removal programme on the incidence of tuberculosis in an Irish cattle population. *Preventive Veterinary Medicine* 34, 47-56.

Pawitan, Y., Griffin, J.M., Collins, J.D., 2004. Analysis and prediction of the BSE incidence in Ireland. *Preventive Veterinary Medicine* 62, 267-283.

Sheridan, H.A., McGrath, G., White, P., Fallon, R., Shoukri, M.M., Martin, S.W., 2005. A temporal-spatial analysis of bovine spongiform encephalopathy in Irish cattle herds, from 1996 to 2000. *Canadian Journal of Veterinary Research* 69, 19-25.

Southey, A., Costello, E., Gormley, E., 2002. Detection of *Mycobacterium bovis* infection and production of interleukin-2 by *in vitro* stimulation of badger lymphocytes. *Veterinary Immunology and Immunopathology* 87, 73-78.

Southey, A.K., Sleeman, D.P., Gormley, E., 2002. Sulfadimethoxine and rhodamine B as oral biomarkers for European badgers (*Meles meles*). *Journal of Wildlife Diseases* 38, 378-384. Erratum in: *Journal of Wildlife Diseases* 31, 246 (2003).

Southey, A., Sleeman, D.P., Lloyd, K., Dalley, D., Chambers, M.A., Hewinson, R.G., Gormley, E., 2001. Immunological responses of Eurasian badgers (*Meles meles*) vaccinated with *Mycobacterium bovis* BCG (Bacillus Calmette-Guérin). *Veterinary Immunology and Immunopathology* 79, 197-207.

Young, J.S., Gormley, E., Wellington, E.M., 2005. Molecular detection of *Mycobacterium bovis* and *Mycobacterium bovis* BCG (Pasteur) in soil. *Applied and Environmental Microbiology* 71, 1946-1952.

B. SCIENTIFIC OPINIONS

(J.D. Collins [UCD CVERA] and J.M. Griffin [DAFF] with other members of the Scientific Panel on Biological Hazards of the European Food Safety Authority [EFSA])

Opinion of the Scientific Panel on Biological Hazards (BIOHAZ) on the 'Quantitative risk assessment of the animal BSE risk posed by meat and bone meal with respect to the residual BSE risk'. The EFSA Journal 257 (2005), 1-30.

Opinion of the Scientific Panel on Biological Hazards (BIOHAZ) on 'A quantitative assessment of risk posed to humans by tissues of small ruminants in case BSE is present in these animal populations'. The EFSA Journal 227 (2005), 1-11.

Opinion of the Scientific Panel on Biological Hazards (BIOHAZ) on 'The assessment of the age limit in cattle for the removal of certain Specified Risk Materials (SRM)'. The EFSA Journal 220 (2005), 1-7.

Opinion of the Scientific Panel on Biological Hazards (BIOHAZ) on 'A request from the Commission on BSE-related Culling in Cattle'. The EFSA Journal 57 (2004), 1-8.

Opinion of the Scientific Panel on Biological Hazards (BIOHAZ) on 'The scientific justification for proposing amendments to the United Kingdom Date Based Export Scheme (DBES) and to the Over Thirty Months (OTM) rule'. The EFSA Journal 56 (2004), 1-4.

Opinion of the Scientific Panel on Biological Hazards (BIOHAZ) on 'The application of the United Kingdom for Moderate Risk BSE status. The EFSA Journal 55 (2004), 1-3.

Opinion of the Scientific Panel on Biological Hazards (BIOHAZ) on a request from the Commission related on 'Tuberculosis in bovine animals: risks for human health and control strategies'. The EFSA Journal 13 (2003), 1-52.

Opinion of the Scientific Panel on Biological Hazards (BIOHAZ) on 'The interpretation of results of EU surveillance of transmissible spongiform encephalopathies (TSEs) in ovine and caprine animals, culling strategies for TSEs in small ruminants and the TSE-related safety of certain small ruminant products'. The EFSA Journal 12 (2003), 1-6.

C. ACADEMIC THESES

Barrett, D.J., 2004. A study of mastitis in Irish dairy herds. MVM thesis, University College Dublin, Ireland.

Costello, E., 1994. A study of antibody ELISA methods for the diagnosis of tuberculosis in cattle. MVM thesis, University College Dublin, Ireland.

Doherty, M.L., 1994. Studies on diagnostic tests for tuberculosis in cattle. PhD thesis, University College Dublin, Ireland.

Eves, J., 2001. A case-control study on the incidence of bovine tuberculosis in an area of extensive badger culling in County Offaly, Ireland. MVM thesis, University College Dublin, Ireland.

Griffin, J.M., 2003. A simulation model for tuberculosis in cattle in Ireland. PhD thesis, University College Dublin, Ireland.

Griffin, J.M., 1994. A case-control study on the association of selected risk factors with the occurrence of bovine tuberculosis in the Republic of Ireland. MSc thesis, University of Guelph, Canada.

Haheys, T., 1995. Studies on aerosol dispersal of a marker organism in cattle slurry and chemical inactivation of *M. bovis* in slurry. MSc thesis, University College Dublin, Ireland.

McGrath, G., 2001. An evaluation of the role of Geographical Information System technology for the prediction of badger sett location in Ireland. MSc thesis, Trinity College Dublin, Ireland.

O'Corry-Crowe, G., 1992. The social and genetic structure of a badger (*Meles meles*, L., 1758) population in central Ireland. PhD thesis, University College Dublin, Ireland.

Olea-Popelka, F.J., 2002. Studies on bovine tuberculosis in cattle and badgers in Ireland. MSc thesis, University of Guelph, Canada.

O'Leary, S., 2005. Molecular detection and characterisation of brucellosis in bovines. PhD thesis, University College Dublin, Ireland.

Sheridan, H., 2001. A spatial temporal analysis of BSE in Ireland. MSc thesis, University of Guelph, Canada.

