

- \* Aguilar, D., Infante, E., Martin, C., Gormley, E., Gicquel, B., Pando, R.H., 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.
- Ashe, S., More, S.J, O'Keeffe, J., White, P., McGrath, G., Aznar, I., 2009. Survival and dispersal of a defined cohort of Irish cattle. *Irish Veterinary Journal* 62, 44-49.
- Aznar, I., McGrath, G., Murphy, D., Corner, L.A.L., Gormley, E., Frankena, K., More, S.J., Martin, W., O'Keeffe, J., De Jong, M.C.M., 2011. Trial design to estimate the effect of vaccination on tuberculosis incidence in badgers. *Veterinary Microbiology* (in press).
- Baldock, F.C., More, S.J., Peeler, E.J., 2008. An introduction to import risk analysis for aquatic animals. *Fish Veterinary Journal* 10, 29-53.
- 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.
- Barrett, D.J., Mee, J.F., Mullowney, P., Good, M., McGrath, G., Clegg, T., More, S.J., 2011. The impact of depopulation, cattle importation and herd size on paratuberculosis (Johne's disease) in dairy herds. *Veterinary Record* (in press).
- Birmingham, M.L., Brotherstone, S., Berry, D.P., More, S.J., Good, M., Cromie, A.R., White, I.M.S., Higgins, I.M., Coffey, M., Downs, S.H., Glass, E.J., Bishop, S.C., Mitchell, A.P., Clifton-Hadley, R.S., Woolliams, J.A., 2011. Evidence for genetic variance in resistance to tuberculosis in UK and Irish Holstein Friesian populations. *BMC Proceedings* (in press).
- Birmingham, M.L., More, S.J., Good, M., Cromie, A.R., Higgins, I.M., Berry, D.P., 2010. Genetic correlations between measures of *Mycobacterium bovis* infection and economically important traits in Irish Holstein-Friesian dairy cows. *Journal of Dairy Science* 93, 5413-5422.
- Birmingham, M.L., More, S.J., Good, M., Cromie, A.R., Higgins, I.M., Brotherstone, S., Berry, D.P., 2009. Genetics of tuberculosis in Irish Holstein-Friesian dairy herds. *Journal of Dairy Science* 92, 3447-3456.
- Berry, D.P., Good, M., Mullowney, P., Cromie, A.R., More, S.J., 2010. Genetic variation in serological response to *Mycobacterium avium* subspecies *paratuberculosis* and its association with performance in Irish Holstein-Friesian dairy cows. *Livestock Science* 131, 102-107.
- Boland, F., Kelly, G.E., Good, M., More, S.J., 2010. Bovine tuberculosis and milk production in infected dairy herds in Ireland. *Preventive Veterinary Medicine* 93, 153-161.
- Brangan, P., Bailey, D., Larkin, J., Myers, T., More, S.J., 2008. Management of the national programme to eradicate equine infectious anaemia from Ireland during 2006. *Equine Veterinary Journal* 40, 702-704.
- Brotherstone, S., White, I.M.S., Coffey, M., Downs, S.H., Mitchell, A.H., Clifton-Hadley, R.S., More, S.J., Good, M., Woolliams, J.A., 2010. Evidence of genetic resistance of cattle to infection with *Mycobacterium bovis*. *Journal of Dairy Science* 93, 1234-1242.
- Cashman, W., Buckley, J., Quigley T., Fanning, S., More, S., Egan, J., Berry, D., Grant, I., O'Farrell, K., 2008. Risk factors for introduction and within-herd transmission of *Mycobacterium avium* subspecies *paratuberculosis* (MAP) infection on 59 Irish dairy herds. *Irish Veterinary Journal* 61, 464-467.

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\* Chambers, M.A., Rogers, F., Delahay, R.J., Lesellier, S., Ashford, R., Dalley, D., Gowtage, S., Davé, D., Palmer, S., Brewer, J., Crawshaw, T., Clifton-Hadley, R., Carter, S., Cheeseman, C., Hanks, C., Murray, A., Palphramand, K., Pietravalle, S., Smith, G.C., Tomlinson, A., Walker, N.J., Wilson, G.J., Corner, L.A.L., Rushton, S.P., Shirley, M.D.F., Gettinby, G., McDonald, R.A., Hewinson, R.G., 2011. *Bacillus Calmette-Guérin* vaccination reduces the severity and progression of tuberculosis in badgers. *Proceedings of the Royal Society B* (in press).

Chapwanya, A., Clegg, T., Stanley, P., Vaughan, L., 2008. Comparison of the Immulite and RIA assay methods for measuring peripheral blood progesterone levels in Greyhound bitches. *Theriogenology* 70, 795–799.

Cho, D., Nam, H., Kim, J., Heo, E., Cho, Y., Hwang, I., Kim, J., Kim, J., Jung, S., More, S., 2010. Quantitative Rose Bengal test for diagnosis of bovine brucellosis. *Journal of Immunoassay and Immunochemistry* 31,120-130.

\*\*\*\* Cleary, G.P., Corner, L.A.L., O’Keeffe, J., Marples, N.M., 2009. The diet of the badger *Meles meles* in the Republic of Ireland. *Mammalian Biology* 74, 438-447.

\*\*\*\* Cleary, G.P., Corner, L.A.L., O’Keeffe, J., Marples, N.M., 2011. Diet of the European badger (*Meles meles*) in the Republic of Ireland: A comparison of results from an analysis of stomach contents and rectal faeces. *Mammalian Biology* (in press).

Clegg, T., Duignan, A., Whelan, C., Gormley, E., Good, M., Clarke, J., Toft, N., More, S.J., 2011. Using latent class analysis to estimate the test characteristics of the interferon- $\gamma$  test, the single intradermal comparative tuberculin test and a multiplex immunoassay under Irish conditions. *Veterinary Microbiology* (in press).

Clegg, T.A., Good, M., Duignan, A., Doyle, R., Blake, M., More, S.J., 2011. Longer-term risk of *Mycobacterium bovis* in Irish cattle following an inconclusive diagnosis to the single intradermal comparative tuberculin test. *Preventive Veterinary Medicine* (in press).

Clegg, T.A., More, S.J., Higgins, I.M., Good, M., Blake, M., Williams, D.H., 2008. Potential infection-control benefit for Ireland from pre-movement testing of cattle for tuberculosis. *Preventive Veterinary Medicine* 84, 94-111.

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., Hanlon, A., More, S.J., Duggan, V., 2008. The structure and regulation of the Irish equine industry: links to consideration of equine welfare. *Irish Veterinary Journal* 61, 746-756.

Collins, J., Hanlon, A., More, S.J., Wall, P.G., Duggan, V., 2009. Policy Delphi with vignette methodology as a tool to evaluate the perception of equine welfare. *The Veterinary Journal* 181, 63-69.

Collins, J., Hanlon, A., More, S.J., Wall, P., Kennedy, J., Duggan, V., 2010. Evaluation of current equine welfare issues in Ireland: causes, desirability, feasibility and means of raising standards. *Equine Veterinary Journal* 42, 105-113.

Collins, J., More, S.J., Hanlon, A., Duggan, V., 2010. Case study of equine welfare on an Irish farm: 2007-2009. *Veterinary Record* 167, 90-95.

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

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- Collins, J.D., 1999. Tuberculosis in cattle: reducing the risk of herd exposure. *UK Vet* 5, 35-39.
- Collins, J.D., 2001. Tuberculosis in cattle: new perspectives. *Tuberculosis* 81, 17-21.
- Collins, J.D., 2006. Tuberculosis in cattle: strategic planning for the future. *Veterinary Microbiology* 112, 369-381.
- 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.
- Connolly, D.J., Dwyer, P.J., Fagan, J., Hayes, M., Ryan, E.G., Costello, E., Kilroy, A., More, S.J., 2008. Tuberculosis in alpaca (*Lama pacos*) in Ireland. 2. Results of an epidemiological investigation. *Irish Veterinary Journal* 61, 533-537.
- \* 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., Gormley, E., 2008. Experimental tuberculosis in the European badger (*Meles meles*) after endobronchial inoculation with *Mycobacterium bovis*: II. Progression of infection. *Research in Veterinary Science* 85, 481-490.
- \* Corner, L.A., Costello, E., Lesellier, S., O'Meara, D., Gormley, E., 2008. Vaccination of European badgers (*Meles meles*) with BCG by the subcutaneous and mucosal routes induces protective immunity against endobronchial challenge with *Mycobacterium bovis*. *Tuberculosis* 88, 601-609.
- \* 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.
- \* Corner, L.A.L., Costello, E., O'Meara, D., Lesellier, S., Aldwell, F.E., Singh, M., Hewinson, R.G., Chambers, M.A., Gormley, E., 2010. Oral vaccination of badgers (*Meles meles*) with BCG and protective immunity against endobronchial challenge with *Mycobacterium bovis*. *Vaccine* 28, 6265-6272.
- \* Corner, L.A.L., Murphy, D., Gormley, E., 2011. *Mycobacterium bovis* infection in the Eurasian badger (*Meles meles*): the disease, pathogenesis, epidemiology and control. *Journal of Comparative Pathology* 144, 1-24.
- \* 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.
- \* Corner, L.A.L., Clegg, T.A., More, S.J., O'Boyle, I., Costello, E., Sleeman, D.P., Griffin, J.M., 2008. The effect of varying levels of population control on the prevalence of tuberculosis in badgers in Ireland. *Research in Veterinary Science* 85, 238-249.
- \* Corner, L.A.L., Murphy, D., Costello, E., Gormley, E., 2009. Tuberculosis in European badgers (*Meles meles*) and the control of infection with Bacille Calmette-Guérin vaccination. *Journal of Wildlife Diseases* 45, 1042-1047.
- \*\* 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

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Ireland by restriction fragment length polymorphism analysis. *Veterinary Record* 159, 619-623.

\*\* Costello, E., O'Grady, D., Flynn, O., O'Brien, R., Rogers, M., Quigley, F., Egan, J., Griffin, J., 1999. Study of restriction fragment length polymorphism analysis and spoligotyping for epidemiological investigation of *Mycobacterium bovis* infection. *Journal of Clinical Microbiology* 37, 3217-3222.

\*\* Costello, E., O'Reilly, P.F., Yearsley, D.K., O'Grady, D.P., O'Reilly, L.M., Collins, J.D., Monaghan, M.L., Bassett, H.F., 1997. A study of an enzyme-linked immunosorbent assay for the diagnosis of tuberculosis in cattle. *Irish Veterinary Journal* 50, 35-38.

\*\* Costello, E., Quigley, F., Flynn, O., Gogarty, A., McGuirk, J., Murphy, A., Dolan, L., 1998. Laboratory examination of suspected tuberculous lesions detected on abattoir post mortem examination of cattle from non-reactor herds. *Irish Veterinary Journal* 51, 248-250.

Crowe, O., Wilson, J., Aznar, I. More, S.J., 2009. A review of Ireland's waterbirds, with emphasis on wintering migrants and reference to H5N1 avian influenza. *Irish Veterinary Journal* 62, 800-811.

Cullinane, M., O'Sullivan, E., Collins, G., Collins, D.M., More, S.J., 2010. A review of bovine cases consigned under veterinary certification to emergency and casualty slaughter in Ireland during 2006 to 2008. *Irish Veterinary Journal* 63, 568-577.

\* Davison, K.E., Hughes, L.J., Gormley, E., Lesellier, S., Costello, E., Corner, L.A., 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.

Dolan, L. A., Lynch, K., 1992. Badgers and bovine tuberculosis. *Irish Veterinary Journal* 45, 133-135.

Doran, P., Carson, J., Costello, E., More, S.J., 2009. An outbreak of tuberculosis affecting cattle and people on an Irish dairy farm in 2005, following the consumption of raw milk from a cow with tuberculous mastitis. *Irish Veterinary Journal* 62, 390-397.

Downes, M., Canty, M.J., More, S.J., 2009. Demography of the pet dog and cat population on the island of Ireland and human factors influencing pet ownership. *Preventive Veterinary Medicine* 92, 140-149.

Downes, M.J., Roy, A., McGinn, T.G., Wisnivesky, J.P., 2010. Factors associated with furry pet ownership among patients with asthma. *Journal of Asthma* 47, 742-749.

\*\* Egan, J., Leonard, N., Griffin, J., Hanlon, A., Poole, D., 2001. A survey of some factors relevant to animal welfare on 249 dairy farms in the Republic of Ireland Part1: Data on housing, calving and calf husbandry. *Irish Veterinary Journal* 54, 388-392.

Eves, J.A., 1999. Impact of badger removal on bovine tuberculosis in east County Offaly. *Irish Veterinary Journal* 52, 199-203.

\* Fend, R., Geddes, R., Lesellier, S., Vordermeier, H.M., Corner, L.A.L., 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.

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- Flanagan, P.A., Kelly, G., 1996. A study of tuberculosis breakdowns in herds in which some purchased animals were identified as reactors. *Irish Veterinary Journal* 49, 704-706.
- 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.
- \* Gil, O., Díaz, I., Vilaplana, C., Tapia, G., Díaz, J., Fort, M., Cáceres, N., Pinto, S., Caylà, J., Corner, L., Domingo, M., Cardona, P.-J., 2010. Granuloma encapsulation is a key factor for containing tuberculosis infection in minipigs. *PLoS One* 5, e10030.
- Good, M., Clegg, T.A., Costello, E., More, S.J., 2011. The comparative performance of the single intradermal test and the single intradermal comparative tuberculin test in Irish cattle, using tuberculin PPD combinations of differing potencies. *The Veterinary Journal* (in press).
- Good, M., Clegg, T.A., Murphy, F., More, S.J., 2011. The comparative performance of the single intradermal comparative tuberculin test in Irish cattle, using tuberculin PPD combinations from different manufacturers. *Veterinary Microbiology* (in press).
- Good, M., Clegg, T., Sheridan, H., Yearsely, D., O'Brien, T., Egan, J., Mullowney, P., 2009. Prevalence and distribution of paratuberculosis (Johne's disease) in cattle herds in Ireland. *Irish Veterinary Journal* 62, 597-606.
- # Good, M., Duignan, A., 2011. An evaluation of the Irish Single Reactor Breakdown Protocol for 2005 to 2008 inclusive and its potential application as a monitor of tuberculin test performance. *Veterinary Microbiology* (in press).
- \* Gormley, E., 2007. Diagnosis of *Mycobacterium bovis* infection in cattle. *Bulletin of the International Dairy Federation: International Dairy Federation. Animal Health: Management and Control of infectious and Production Diseases* 416, 101-109.
- \* Gormley, E., Corner, L., 2009. Control of TB in wildlife by oral BCG vaccination. *Expert review of Vaccines* 8, 1339-1342.
- \* Gormley, E., Costello, E., 2003. Tuberculosis and badgers: New approaches to diagnosis and control. *Journal of Applied Microbiology* 94, 80-86.
- \* 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., 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.
- \* 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., Dolan, L.A., 1995. The role of cattle-to-cattle transmission of *Mycobacterium bovis* in the epidemiology of tuberculosis in cattle in the Republic of Ireland: A review. *Irish Veterinary Journal* 48, 228-234.
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Griffin, J.M., Haheesy, 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 and 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.

Hayes, M., Ashe, S., Collins, D.M., Power, S., Kenny, K., Sheahan, M., O'Hagan, G., More, S.J., 2009. An evaluation of Irish cattle herds with inconclusive serological evidence of bovine brucellosis. *Irish Veterinary Journal* 62, 182-190.

Hayes, M., Kilroy, A., Ashe, S., Power, S., Kenny, K., Collins, D.M., More, S.J., 2010. An outbreak of bovine brucellosis in County Clare, Ireland, during 2005. *Veterinary Record* 166, 107-111.

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

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., 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.

Kelly, G., Condon, J., More, S.J., Dolan, L., Higgins, I., Eves, J., 2008. A long term observational study of the impact of badger removal on herd restrictions due to bovine TB in the Irish midlands during 1989 – 2004. *Epidemiology and Infection* 136, 1362-1373.

Kelly, G.E., McGrath, G., More, S.J., 2010. Estimating the extent of spatial association of *Mycobacterium bovis* infection in badgers in Ireland. *Epidemiology and Infection* 138, 270-279.

Kelly, G.E., More, S.J., 2011. Spatial clustering of TB-infected cattle herds prior to and following proactive badger removal. *Epidemiology and Infection* (in press).

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Kelly, P.T., O'Sullivan, K., Berry, D.P., More, S.J., Meaney, W.J., O'Callaghan, E.J., O'Brien, B., 2009. Farm management factors associated with bulk tank total bacterial count in Irish dairy herds during 2006/07. *Irish Veterinary Journal* 62, 36-42.

Kelly, P.T., O'Sullivan, K., Berry, D.P., More, S.J., Meaney, W.J., O'Callaghan, E.J., O'Brien, B., 2009. Farm management factors associated with bulk tank somatic cell count in Irish dairy herds. *Irish Veterinary Journal* 62, Supplement 45-51.

Lane, E.A., 2008. Problem based learning in veterinary education. *Journal of Veterinary Medical Education* 35, 631-636.

Lane, E.A., Austin, E.J., Crowe, M.A., 2008. Oestrous synchronisation in cattle - current options following the EU regulations restricting use of oestrogenic compounds in food producing animals: a review. *Animal Reproduction Science* 109, 1-16.

Lane, E.A., Sweeney, T., Ryan, M., Roche, J.F., Crowe, M.A., 2009. Relationship between serum gonadotropins and pituitary immunoreactive gonadotropins and steroid receptors during the first FSH increase of the estrous cycle and following steroid treatment in heifers. *Animal Reproduction Science* 112, 66-82.

Lee, B-Y., Higgins, I.M., Moon, O-K., Clegg, T.A, McGrath, G., Collins, D.M., Park, J-Y., Yoon, H-C., Lee, S-J., More, S.J., 2009. Surveillance and control of bovine brucellosis in the Republic of Korea during 2000 to 2006. *Preventive Veterinary Medicine* 90, 66-79.

\*\* Leonard, N., Egan, J., Griffin, J., Hanlon, A., Poole, D., 2001. A survey of some factors relevant to animal welfare on 249 dairy farms in the Republic of Ireland Part 2: Data on incidence of disease, culling and biosecurity measures. *Irish Veterinary Journal* 54, 454-456.

\* Lesellier, S., Corner, L., Costello, E., Lyashchenko, K., Greenwald, R., Esfandiari, J., Singh, M., Hewinson, R.G., Chambers, M., Gormley, E., 2009. Immunological responses and protective immunity in BCG vaccinated badgers following endobronchial infection with *Mycobacterium bovis*. *Vaccine* 27, 402-409.

\* Lesellier, S., Corner, L., Costello, E., Sleeman, P., Lyashchenko, K., Greenwald, R., Esfandiari, J., Singh, M., Hewinson, R.G., Chambers, M., Gormley, E., 2008. Antigen specific immunological responses of badgers (*Meles meles*) experimentally infected with *Mycobacterium bovis*. *Veterinary Immunology and Immunopathology* 122, 35-45.

\* Lesellier, S., Corner, L., Costello, E., Sleeman, P., Lyashchenko, K.P., Greenwald, R., Esfandiari, J., Hewinson R.G., Chambers, M., Gormley, E., 2009. Immunological responses following experimental endobronchial infection of badgers (*Meles meles*) with different doses of *Mycobacterium bovis*. *Veterinary Immunology and Immunopathology* 127, 174-180.

\* MacHugh, D.E., Gormley, E., Park, S.D.E, Browne, J.A., Taraktsoglou, M., O'Farrelly, C., Meade, K.G., 2009. Gene expression profiling of the host response to *Mycobacterium bovis* infection in cattle. *Transboundary and Emerging Diseases* 56, 204-214.

Maher, P., Good, M., More, S.J., 2008. Trends in the number of, and rate at which, cows are culled from the Irish cattle population, 2003 to 2006. *Irish Veterinary Journal* 61, 455-463.

\* 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.

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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.

\* McCarthy, G., Shiel, R., O'Rourke, L., Murphy, D., Corner, L., Costello, E., Gormley, E., 2009. Bronchoalveolar lavage cytology from captive badgers. *Veterinary Clinical Pathology* 38, 381-387.

McGrath, G., Abernethy, D.A., Stringer, L., More, S.J., 2009. An all-island approach to mapping bovine tuberculosis in Ireland. *Irish Veterinary Journal* 62, 192-197.

\* Meade, K.G., Gormley, E., Doyle, M.B., Fitzsimons, T., O'Farrelly, C., Costello, E., Keane, J., Zhao, Y., MacHugh, D.E., 2007. 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., O'Farrelly, C., Park, S.D., Costello, E., Keane, J., Zhao, Y., MacHugh, D.E., 2008. Antigen stimulation of peripheral blood mononuclear cells from *Mycobacterium bovis* infected cattle yields evidence for a novel gene expression program. *BMC Genomics* 9.

\* Meade, K.G., Gormley, E., Park, S.D.E., Fitzsimons, T., Rosa, G.J.M., 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.

\* Monaghan, M.L., Doherty, M.L., Collins, J.D., Kazda, J.F., Quinn, P.J., 1994. The tuberculin test. *Veterinary Microbiology* 40, 111-124.

\* Monaghan, M.L., Quinn, P.J., Kelly, A.P., McGill, K., McMurray, C., O'Crowley, K., Bassett, H.F., Costello, E., Quigley, F., Rothel, J.S., Wood, P.R., Collins, J.D., 1997. A pilot trial to evaluate the gamma-interferon assay for the detection of *Mycobacterium bovis* infected cattle under Irish conditions. *Irish Veterinary Journal* 50, 229-232.

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

More, S.J., 2007. Shaping our future: animal health in a global trading environment. *Irish Veterinary Journal* 60, 540-545.

More, S.J., 2009. Global trends in milk quality: implications for the Irish dairy industry. *Irish Veterinary Journal* 62, Supplement 5-14.

More, S.J., 2010. Improving the quality of reporting in veterinary journals: how far do we need to go with reporting guidelines? *The Veterinary Journal* 184, 249-250.

More, S.J., 2009. What is needed to eradicate bovine tuberculosis successfully: an Irish perspective. *The Veterinary Journal* 180, 275-278.

More, S.J., 2008. A case for increased private sector involvement in Ireland's national animal health services. *Irish Veterinary Journal* 61, 92-100.

More, S.J., Aznar, I., Bailey, D.C., Larkin, J.F., Leadon, D.P., Lenihan, P., Flaherty, B., Fogarty, U., Brangan, P., 2008. An outbreak of equine infectious anaemia (EIA) in Ireland during 2006: the investigation methodology, the initial source of infection, diagnosis and clinical

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presentation, the modes of transmission and spread in the Meath cluster. *Equine Veterinary Journal* 40, 706-708.

More, S.J., Aznar, I., Myers, T., Leadon, D.P., Clegg, T.A., 2008. An outbreak of equine infectious anaemia (EIA) in Ireland during 2006: the modes of transmission and spread in the Kildare cluster. *Equine Veterinary Journal* 40, 709-711.

More, S.J., Cameron, A.R., Greiner, M., Clifton-Hadley, R.S., Correia Rodeia, S., Bakker, D., Salman, M.D., Sharp, J.M., De Massis, F., Aranaz, A., Boniotti, M.B., Gaffuri, A., Have, P., Verloo, D., Woodford, M., Weirup, M., 2009. Defining output-based standards to achieve and maintain TB freedom in farmed deer, with reference to EU member states. *Preventive Veterinary Medicine* 90, 254-267.

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., Collins, J.D., Good, M., Skuce, R.A., Pollock, J.M., Gormley, E., 2006. Preface, editorial. *Veterinary Microbiology* 112, 89-89.

More, S.J., Collins, J.D., Gormley, E., Good, M., Skuce, R.A., Pollock, J.M., 2006. 4th International Conference on *Mycobacterium bovis*: workshop reports. *Veterinary Microbiology* 112, 383-391.

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.

More, S.J., McKenzie, K., O'Flaherty, J., Doherty, M.L., Cromie, A.R., Magan, M.J., 2010. Setting priorities for non-regulatory animal health in Ireland: results from an expert Policy Delphi study and a farmer priority identification survey. *Preventive Veterinary Medicine* 95, 198-207.

\* Murphy, D., Corner, L.A.L., Gormley, E., 2008. Adverse reactions to *Mycobacterium bovis* bacille Calmette-Guerin (BCG) vaccination against tuberculosis in humans, veterinary animals and wildlife species. *Tuberculosis* 88, 344-357.

\* Murphy, D., Gormley, E., Costello, E., O'Meara, D., Corner, L.A.L., 2010. The prevalence and distribution of *Mycobacterium bovis* infection in European badgers (*Meles meles*) as determined by enhanced post mortem examination and bacteriological culture. *Research in Veterinary Science* 88, 1-5.

\* Murphy, D., O'Keeffe, J., Martin, S.W., Gormley, E., Corner, L.A.L., 2009. An assessment of injury to European badgers (*Meles meles*) due to capture in stopped restraints. *Journal of Wildlife Diseases* 45, 481-490.

\* Murphy, D., Gormley, E., Collins, D.M., McGrath, G., Sovsic, E., Costello, E., Corner, L.A.L., 2011. Tuberculosis in cattle herds are sentinels for *Mycobacterium bovis* infection in European badgers (*Meles meles*): the Irish Greenfield Study. *Veterinary Microbiology* (in press).

\*\* 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.

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

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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.

Nash, D.M., Sheldon, I.M., Herath, S., Lane, E.A., 2010. Endometrial explant culture to study the response of equine endometrium to insemination. *Reproduction in Domestic Animals* 45, 670-676.

Nash, D., Lane, E.A., Herath, S., Sheldon, I.M., 2008. Endometrial explant culture for characterizing equine endometritis. *American Journal of Reproductive Immunology* 59, 105-117.

Nash, D.M., Sheldon, I.M., Herath, S., Lane, E.A., 2010. Markers of the uterine innate immune response of the mare. *Animal Reproduction Science* 119, 31-39.

O'Connor, J., More, S.J., Griffin, J.M., O'Leary, E., 2009. Modelling the demographics of the Irish cattle population. *Preventive Veterinary Medicine* 89, 249-254.

O'Grady, L., O'Neill, R., Collins, D.M., Clegg, T.A., More, S.J., 2008. Herd and within-herd IBR prevalence among Irish herds submitting bulls for entry to a bull performance testing station. *Irish Veterinary Journal* 61, 809-815.

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., Costello E., White P., McGrath G., Collins J. D., O'Keeffe J., Kelton D.F., Berke O., More S.J., Martin S.W., 2008. Risk factors for disclosure of additional tuberculous cattle in attested-clear herds that had an animal with a confirmed lesion of tuberculosis at slaughter during 2003 in Ireland. *Preventive Veterinary Medicine* 85, 81-91.

Olea-Popelka, F.J., Fitzgerald, P. White, P., McGrath, G., Collins, J.D., O'Keeffe, J., Kelton, D.F., Berke, O., More, S.J., Martin, S.W., 2009. Targeted badger removal and the subsequent risk of bovine tuberculosis in cattle herds in county Laois, Ireland. *Preventive Veterinary Medicine* 88, 178-184.

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., 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., 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.

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.

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Partridge, T., Toolan, D.P., Egan, J., More, S.J., 2008. Control of *Mycobacterium bovis* infection in two sika deer herds in Ireland. *Irish Veterinary Journal* 61, 27-32.

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

Richardson, E., Good, M., McGrath, G., More, S.J., 2009. The use of Geographic Information System (GIS) and non-GIS methods to assess the external validity of samples post-collection. *Journal of Veterinary Diagnostic Investigation* 21, 633-640.

Richardson, E.K.B., More, S.J., 2009. Direct and indirect effects of Johne's disease on farm and animal productivity in an Irish dairy herd. *Irish Veterinary Journal* 62, 526-532.

Richardson, E.K.B., Mee, J.F., Sanchez, C., Crilly, J., More, S.J., 2009. Demographics of animals positive to *Mycobacteria avium* subspecies *paratuberculosis* on faecal culture, based on laboratory submissions to the Cork Regional Veterinary Laboratory during 1989 to 2006. *Irish Veterinary Journal* 62, 398-405.

\*\* Ryan, E.D., Kirby, M., Collins, D.M., Sayers, R., Mee, J.F., Clegg, T., 2011. Prevalence of *Coxiella burnetii* (Q fever) antibodies in bovine serum and bulk milk samples. *Epidemiology and Infection* (in press).

Ryan, E.G., Dwyer, P.J., Connolly, D.J., Fagan, J., Costello, E., More, S.J., 2008. Tuberculosis in alpaca (*Lama pacos*) in Ireland. 1. A clinical report. *Irish Veterinary Journal* 61, 527-531.

\* Schiller, I., Vordermeier, H.M., Waters, W.R., Whelan, A.O., Coad, M., Gormley, E., Buddle, B.M., Palmer, M., Thacker, T., McNair, J., Welsh, M., Hewinson, R.G., Oesch, B., 2010. Bovine tuberculosis: Effect of the tuberculin skin test on *in vitro* interferon gamma responses. *Veterinary Immunology and Immunopathology* 136, 1-11.

\* Schiller, I., Waters, W.R., Vordermeier, H.M., Jemmi, T., Welsh, M., Keck, N., Whelan, A., Gormley, E., Boschioli, M.L., Moyon, J.L., Vela, C., Cagiola, M., Buddle, B.M., Palmer, M., Thacker, T., Oesch, B., 2011. Bovine tuberculosis in Europe from the perspective of an officially tuberculosis free country: trade, surveillance and diagnostics. *Veterinary Microbiology* (in press).

Shanahan A., Good M., Duignan A., Curtin, T., More S.J., 2011. Tuberculosis in goats on a farm in Ireland: epidemiological investigation and control. *Veterinary Record* (in press).

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.

# Sheridan, M., 2011. Progress in tuberculosis eradication in Ireland. *Veterinary Microbiology* (in press).

\*\*\* Sleeman, D.P., Davenport, J., Cussen, R., Hammond, R.F., 2009. The small-bodied badgers (*Meles meles* (L.)) of Rutland Island, Co. Donegal. *Irish Naturalists' Journal* 30, 1-6.

\*\*\* Sleeman, D.P., Davenport, J., Fitzgerald, A., 2008. Incidence of visits by badgers to farmyards in Ireland in winter. *Veterinary Record* 163, 724. & Sleeman, D.P., Davenport, J., Fitzgerald, A., 2009. Letter response. *Veterinary Record* 164, 668.

\*\*\* Sleeman, D.P., Davenport, J., More, S.J., Clegg, T.A., Collins, J.D., Griffin, J.M., O'Boyle, I., 2009. How many Eurasian badgers *Meles meles* L. are there in Ireland? *European Journal of Wildlife Research* 55, 333-344.

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\*\*\* Sleeman, D.P., Davenport, J., More, S.J., Clegg, T.A., Griffin, J.M., O'Boyle, I., 2009. The effectiveness of barriers to badger *Meles meles* immigration in the Irish Four Area project. *European Journal of Wildlife Research* 55, 267-278.

\* 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.

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

\* Southey, A.K., Sleeman, D.P., Prendergast, J., O'Sullivan, R.F. Mulcahy, M.F., 2001. Use of biomarkers to assess the feasibility of delivering a vaccine to badgers (*Meles meles*). *Journal of Zoology* 253, 133-139.

\* Taraktsoglou, M., Szalabska, U., Magee, D.A., Browne, J.A., Sweeney, T., Gormley, E., MacHugh, D.E., 2011. Transcriptional profiling of immune genes in bovine monocyte-derived macrophages exposed to bacterial antigens. *Veterinary Immunology and Immunopathology* 140, 130-139.

Wee, S-H., Kim, C-H., More, S.J., Nam, H-M., 2010. *Mycobacterium bovis* in Korea: An update. *The Veterinary Journal* 185, 347-350.

Wee, S-H., Nam, H-M., Moon, O-K. Yoon, H., Park, J.Y., More, S.J., 2008. Using field-based epidemiological methods to investigate FMD outbreaks: an example from the 2002 outbreak in Korea. *Transboundary and Emerging Diseases* 55, 404-410.

Wee, S-H., Yoon, H., More, S.J., Nam, H-M., Moon, O-K., Jung, J-M., Kim, S-J., Kim, C-H., Lee, E-S., Hwang, I-J., 2008. Epidemiological characteristics of the 2002 outbreaks of foot-and-mouth disease in the Republic of Korea. *Transboundary and Emerging Diseases* 55, 360-368.

White, P., Frankena, K., O'Keeffe, J., More, S.J., Martin, S.W., 2010. Predictors of the first between-herd animal movement for cattle born in 2002 in Ireland. *Preventive Veterinary Medicine* 97, 264-269.

\* Whyte, P., McGill, K., Collins, J.D., Gormley, E., 2002. The prevalence and PCR detection of *Salmonella* contamination in raw poultry. *Veterinary Microbiology* 89, 53-60.

Williams, E.J., Sibley, K., Miller, A.N., Lane, E.A., Fishwick, J., Nash D.M., Herath, S., England, G.C.W., Dobson, H., Sheldon, I.M., 2008. The effect of *Escherichia coli* lipopolysaccharide and tumour necrosis factor alpha on ovarian function. *American Journal of Reproductive Immunology* 60, 462-473.

Wolfe, D.M., Berke, O., More, S.J, Kelton, D.F, White, P.W., O'Keeffe, J.J., Martin, S.W., 2009. The risk of a positive test for bovine tuberculosis in cattle purchased from herds with and without a recent history of bovine tuberculosis in Ireland. *Preventive Veterinary Medicine* 92, 99-105.

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Wolfe, D.M., Berke, O., Kelton, D.F., White, P.W., More, S.J., O’Keeffe, J., Martin, S.W., 2010. From explanation to prediction: developing a predictive model for recurrent bovine tuberculosis in Irish cattle herds. *Preventive Veterinary Medicine* 94, 170-177.

Yoon, H., Moon, O.K., More, S.J., Park, C.K., Park, J.Y., Lee, Y.J., Lee, S.D., Ha, J.K., Jeong, S.K., Jeong, J.W., Lee, S.J., 2010. An outbreak of highly pathogenic avian influenza at a public animal exhibit in Seoul, Korea during 2008. *Zoonoses and Public Health* 57, 142-145.

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

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