





**Publications**

*During 2010-11* ..... 120

*Prior to 2010* ..... 128

## During 2010-2011

### Peer reviewed papers

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* 151, 104-111.

\* Barrett, D.J., Mee, J.F., Mullowney, P., Good, M., McGrath, G., Clegg, T., More, S.J., 2011. Risk factors associated with John's disease test status in dairy herds in Ireland. *Veterinary Record* 168, 410.

\* Barrett, D.J., More, S.J., Graham, D.A., O'Flaherty, J., Doherty, M.L., Gunn, H.M., 2011. Considerations on BVD eradication for the Irish livestock industry. *Irish Veterinary Journal* 64, 12.

Beekhuis-Gibbon, L., Devitt, C., Whyte, P., O'Grady, L., More, S.J., Redmond, B., Quin, S., Doherty, M.L., 2011. A HACCP-based approach to mastitis control in dairy herds. Part 2: Implementation and evaluation. *Irish Veterinary Journal* 64, 7.

Beekhuis-Gibbon, L., Whyte, P., O'Grady, L., More, S.J., Doherty, M.L., 2011. A HACCP-based approach to mastitis control in dairy herds. Part 1: Development. *Irish Veterinary Journal* 64, 2.

Bermingham, 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 Great Britain and Irish Holstein-Friesian populations. *BMC Proceedings* 5(Suppl 4), S15.

Bermingham, 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.

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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.

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.

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* 278, 1913-1920.

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., 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* 76, 470-475.

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* 151, 68-76.

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* 100, 147-154.

Clegg, T.A., Good, M., Duignan, A., Doyle, R., More, S.J., 2011. Shorter-term risk of *Mycobacterium bovis* in Irish cattle following an inconclusive diagnosis to the single intradermal comparative tuberculin test. *Preventive Veterinary Medicine* 102, 255-264.

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.A., Hanlon, A., More, S.J., Wall, P.G., Duggan, V., 2011. Aspects of the owning/keeping and disposal of horses, and how these relate to equine health/welfare in Ireland. *Irish Veterinary Journal* 64, 11.

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.

Cowley, D.J.B., Clegg, T.A., Doherty, M.L., More, S.J., 2011. Aspects of bovine herpesvirus-1 infection in dairy and beef herds in the Republic of Ireland. *Acta Veterinaria Scandinavica* 53, 40.

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.

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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.

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# 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* 151, 85-90.

# Good, M., Duignan, A., 2011. Perspectives on the history of bovine TB and the role of tuberculin in bovine TB eradication. *Veterinary Medicine International*, article ID 410470.

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\*\*\* Kelly, D.J., Corner, L.A.L., Gormley, E., Murphy, D., Costello, E., Aldwell, F.E., Marples, N.M., 2011. Evaluation of attractant flavours for use in oral vaccine baits for badgers (*Meles meles*). *European Journal of Wildlife Research* 57, 767-774.

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Lorenz, I., Earley, B., Gilmore, J., Hogan, I., Kennedy, E., More, S.J., 2011. Calf health from birth to weaning. III. Housing and management of calf pneumonia. *Irish Veterinary Journal* 64, 14

Lorenz, I., Fagan, J., More, S.J., 2011. Calf health from birth to weaning. II. Management of diarrhoea in pre-weaned calves. *Irish Veterinary Journal* 64, 9.

Lorenz, I., Mee, J.F., Earley, B., More, S.J., 2011. Calf health from birth to weaning. I. General aspects of disease prevention. *Irish Veterinary Journal* 64, 10.

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More, S.J., Doherty, M.L., Downey, L., McKenzie, K., Devitt, C., O'Flaherty, J., 2011. Animal Health Ireland: providing national leadership and coordination of non-regulatory animal health issues in Ireland. *Revue scientifique et technique / Office international des épizooties (OIE Scientific and Technical Review)* 30, 715-723.

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# Sheridan, M., 2011. Progress in tuberculosis eradication in Ireland. *Veterinary Microbiology* 151, 160-169.

\*\* Sleeman, D.P., Partridge, T., O'Boyle, I., Gormley, E., Toolan, D., 2010. The badgers (*Meles meles* (L.)) of Little Island, Co. Waterford. *Irish Naturalists' Journal* 31, 94-99.

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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.

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.

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.

# CVERA Board of management

\* DAFM Veterinary Laboratory Service

\*\* UCC School of Biological, Earth & Environmental Sciences

\*\*\* School of Natural Sciences, Trinity College Dublin

## Scientific opinions

(J.D. Collins [UCD CVERA] and J.M. Griffin [DAFM] with other members of the Scientific Panel on Biological Hazards (BIOHAZ), and S.J. More [UCD CVERA] with other members of the Panel on Animal Health and Welfare (AHAW) of the European Food Safety Authority [EFSA])

EFSA Panel on Animal Health and Welfare (AHAW), 2010. Scientific opinion on the practice of harvesting (collecting) feathers from live geese for down production. *EFSA Journal* 8, 1886.

EFSA Panel on Animal Health and Welfare (AHAW), 2010. Scientific opinion on the increased mortality events in Pacific oysters, *Crassostrea gigas*. *EFSA Journal* 8, 1894.

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EFSA Panel on Animal Health and Welfare (AHAW), 2010. Scientific opinion on geographic distribution of tick-borne infections and their vectors in Europe and the other regions of the Mediterranean Basin. *EFSA Journal* 8, 1723.

EFSA Panel on Animal Health and Welfare (AHAW), 2010. Scientific opinion on the role of tick vectors in the epidemiology of Crimean-Congo Hemorrhagic Fever and African Swine Fever in Eurasia. *EFSA Journal* 8, 1703.

EFSA Panel on Animal Health and Welfare (AHAW), 2010. Scientific opinion on welfare aspects of the management and housing of the grand-parent and parent stocks raised and kept for breeding purposes. *EFSA Journal* 8, 1667.

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EFSA Panel on Animal Health and Welfare (AHAW), 2010. Scientific opinion on African swine fever. *EFSA Journal* 8, 1556.

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EFSA Panel on Animal Health and Welfare (AHAW), 2011. Scientific opinion on the monitoring for the emergence of possible new pandemic strains of influenza in animals. *EFSA Journal* 9, 2109.

EFSA Panel on Animal Health and Welfare (AHAW), 2011. Scientific opinion concerning the welfare of animals during transport. *EFSA Journal* 9, 1966.

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EFSA Panels on Animal Health and Welfare (AHAW) and on Biological Hazards (BIOHAZ), 2011. Scientific opinion on hatchery waste as animal by-products. *EFSA Journal* 9, 2321.

EFSA Panel on Biological Hazards (BIOHAZ), 2010. Scientific opinion on a second update on the risk for human and animal health related to the revision of the BSE monitoring regime in some Member States. *EFSA Journal* 8, 1946.

EFSA Panel on Biological Hazards (BIOHAZ), 2010. Scientific opinion on BSE/TSE infectivity in small ruminant tissues. *EFSA Journal* 8, 1875.

EFSA Panel on Biological Hazards (BIOHAZ), 2010. Scientific opinion on the results of the EU survey for Chronic Wasting Disease (CWD) in cervids. *EFSA Journal* 8, 1861.

EFSA Panel on Biological Hazards (BIOHAZ), 2010. Scientific opinion on lime treatment of solid pig and poultry manure. *EFSA Journal* 8, 1681.



EFSA Panel on Biological Hazards (BIOHAZ), 2010. Scientific opinion on the analytical sensitivity of approved TSE rapid tests – new data for assessment of two rapid tests. *EFSA Journal* 8, 1591.

EFSA Panel on Biological Hazards (BIOHAZ), 2010. Scientific opinion on the link between Salmonella criteria at different stages of the poultry production chain. *EFSA Journal* 8, 1545.

EFSA Panel on Biological Hazards (BIOHAZ), 2010. Scientific opinion on the quantification of the risk posed by broiler meat to human campylobacteriosis in the EU. *EFSA Journal* 8, 1437.

EFSA Panel on Biological Hazards (BIOHAZ), 2010. Scientific opinion on the risk of transmission of TSEs via semen and embryo transfer in small ruminants (sheep and goats). *EFSA Journal* 8, 1429.

EFSA Panel on Biological Hazards (BIOHAZ), 2010. Statement on food safety considerations of novel H1N1 influenza virus infections in humans. *EFSA Journal* 8, 1629.

EFSA Panel on Biological Hazards (BIOHAZ), 2011. Scientific opinion on the risk posed by Shiga toxin-producing *Escherichia coli* (STEC) and other pathogenic bacteria in seeds and sprouted seeds. *EFSA Journal* 9, 2424.

EFSA Panel on Biological Hazards (BIOHAZ), 2011. Scientific opinion on on-site treatment of pig carcasses. *EFSA Journal* 9, 2425.

EFSA Panel on Biological Hazards (BIOHAZ), 2011. Scientific opinion on composting on-farm of dead poultry. *EFSA Journal* 9, 2427.

EFSA Panel on Biological Hazards (BIOHAZ), 2011. Scientific opinion on the revision of the quantitative risk assessment (QRA) of the BSE risk posed by processed animal proteins (PAPs). *EFSA Journal* 9, 1947.

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EFSA Panel on Biological Hazards (BIOHAZ), 2011. Scientific opinion on hatchery waste as animal by-products. *EFSA Journal* 9, 2321.

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EFSA Panel on Biological Hazards (BIOHAZ), 2011. Scientific opinion on the review on the risk for human and animal health related to the revision of the BSE monitoring regime in three EU Member States. *EFSA Journal* 9, 2142.

EFSA Panel on Biological Hazards (BIOHAZ), 2011. Scientific opinion on Campylobacter in broiler meat production: control options and performance objectives and/or targets at different stages of the food chain. *EFSA Journal* 9, 2105.

EFSA Panel on Biological Hazards (BIOHAZ), 2011. Scientific opinion on the efficacy and microbiological safety of irradiation of food. *EFSA Journal* 9, 2103.

EFSA Panel on Biological Hazards (BIOHAZ), 2011. Scientific opinion on a review of the BSE-related risk in bovine intestines. *EFSA Journal* 9, 2104.

EFSA Panel on Biological Hazards (BIOHAZ), 2011. Scientific opinion on the capacity of oleochemical processes to minimise possible risks linked to TSE in Category 1 animal by-products. *EFSA Journal* 9, 1976.

EFSA Panel on Biological Hazards (BIOHAZ), 2011. Scientific opinion on the public health risks of bacterial strains producing extended-spectrum  $\beta$ -lactamases and/or AmpC  $\beta$ -lactamases in food and food-producing animals. *EFSA Journal* 9, 2322.

EFSA Panels on Biological Hazards (BIOHAZ), Contaminants in the Food Chain (CONTAM) and Animal Health and Welfare (AHAW), 2011. Scientific opinion on the public health hazards to be covered by inspection of meat (swine). *EFSA Journal* 9, 2351.

EFSA Scientific Committee and EFSA Panel on Biological Hazards (BIOHAZ), 2011. Joint scientific opinion on any possible epidemiological or molecular association between TSEs in animals and humans. *EFSA Journal* 9, 1945.

## ***Academic theses***

Collins, J., 2010. Challenges and solutions to support good equine welfare practice in Ireland. PhD thesis. University College Dublin, Ireland.

Downes, M.J., 2010. The human-animal bond: the demographics of pets and pet ownership on the island of Ireland, pet ownership in asthmatics in the USA and owner attitudes towards pets. PhD thesis, University College Dublin, Ireland.

Good, M., 2011. The tuberculin test and its role in the strategic management and eradication of tuberculosis in cattle. PhD thesis, Utrecht University, The Netherlands.

## Prior to 2010

### Peer reviewed papers

- 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.
- 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.
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- Bermingham, 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.
- 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.
- 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.
- 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.
- \*\*\* 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.
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- 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.
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# CVERA Board of management

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