

Report of the President 2006/2007

Sep 2006 - Aug 2007

Research Publications for the School of Agriculture, Food Science & Veterinary
Medicine

Dr Gashaw Ayalew Gobezie

Peer Reviewed Journals

Ayalew, G. Holden, N.M. and Ward, S.M. (2007) 'Microwave dielectric properties of horticultural peat products'. *Mires and Peatlands*, 2 (3):1-10. <http://www.mires-and-peat.net/>

Ayalew, G. McCarthy, U. McDonnell, K. Butler, F. McNulty, P. and Ward, S.M. (2006) 'Electronic tracking and tracing in food and feed traceability'. *LogForum*, 2 (2). <http://www.logforum.net/vol2/issue2/no2>

Professor Alan Baird

Peer Reviewed Journals

Collins, C., Baird, A.W. and Campion, D. (2007) 'Effect of mast cell degranulation on chicken ileal ion transport in vitro'. *Poultry Science*, 86 (5):843-849.

Deaton C.M., Deaton L., Jose-Cunilleras E., Vincent T.L., Baird A.W., Dacre K., Marlin (2007) 'Early onset airway obstruction in response to organic dust in the horse'. *Journal of Applied Physiology*, 102 (3):1071-1077.

Fitzgerald D.C., Meade K.G., McEvoy A.N., Lillis L., Murphy E.P., Machugh D.E., Baird A.W. (2007) 'Tumour necrosis factor-alpha (TNF-alpha) increases nuclear factor kappaB'. *Veterinary Immunology and Immunopathology*, 116 (1):59-68.

Dr Thomas B M Barragry

Book Chapters

Barragry, T.B., O'Connor, M., Hannan, C. (2007) 'Controlling Therapeutic Substances:A European Harmonised Approach-Determination of the Detection time for Ketoprofen Following IV Administration to Horses' In: Houghton, E., Kijimi -Suda, I., Wada, R (eds). *Proceedings 16th Conference of Racing Analysts and Veterinarians. Tokyo. October 2006* . Newmarket UK: R *W Communications.

Peer Reviewed Journals

Barragry, T.B. (2007) 'An Update on Detection times for Therapeutic Substances in Horses'. *Irish Veterinary Journal*, 60 (1):43-45.

Conference Publications

Barragry, T.B., O'Connor, M., Hannon, C. (2006) Determination of the detection Time of Ketoprofen following Intravenous Administration to Horses International Conference of Racing Analysts and Veterinarians (ICRAV),

Tokyo, Japan 2006.

Professor Maurice Boland

Peer Reviewed Journals

Murphy, A.M., MacHugh, D.E., Park, S.D.E., Scraggs, E., Haley, C.S., Lynn, D.J., Boland, M.P. and Doherty, M.L. (2007) 'Linkage mapping of the locus for inherited ovine arthrogryposis (IOA) to sheep Chromosome 5'. *Mammalian Genome*, 18 (1):43-52.

Dr Tommy Boland

Conference Publications

Boland, T.M., Hayes, L., Murphy, J.J., Sweeney, T., Callan, J.J., and Crosby, T.F. (2007) Cobalt supplementation to the pregnant ewe reduces vitamin E levels in the newborn lamb. *American Society of Animal Science Annual Meeting*.

Boland, T.M., Hayes, L., Murphy, J.J., Callan, J.J., Sweeney, T., and Crosby, T.F. (2007) The effects of iodine supplementation to the pregnant ewe on immunoglobulin G, vitamin E, T3 and T4 levels in the newborn lamb. *British Society of Animal Science, Winter Meeting*.

Boland, T.M., Hayes, L., Murphy, P.J. and Crosby, T.F. (2007) The effects of offering a concentrate or grass silage based diet to single, twin and triplet bearing ewes in late pregnancy on ewe performance. *British Society of Animal Science, Winter Meeting*.

McEvoy, M., O'Donovan, M., Boland, T. and Delaby, L. (2007) 2007. Effect of daily herbage allowance and concentrate level on dry matter intake and milk performance of spring calving dairy cows in early lactation. *European Association of Animal Production, 58th Annual Meeting*.

Boland, T.M., Hayes, L., Murphy, J.J., and Crosby, T.F. (2007) The effects of offering a concentrate or grass silage based diet to twin bearing ewes in late pregnancy on ewe and lamb performance. *British Society of Animal Science, Winter Meeting*.

Professor David Brayden

Peer Reviewed Journals

Maher, S., Feighery, L., Brayden, D.J. and McClean, S. (2007) 'Melittin as a permeability enhancer II: In vitro investigations in human mucus-secreting intestinal monolayers and rat colonic mucosae'. *Pharmaceutical Research*, 24 (7):1346-1345.

Leonard, T. W., O'Toole, E., Brennan, F., Brayden, D.J. (2006) 'Absorption enhancement: promoting the oral absorption of drugs in humans using Gastro-Intestinal Permeation Enhancement Technology (GIPET)'. *Drug Delivery Technology*, :2-8.

Ms Sheila Brennan

Peer Reviewed Journals

Brennan, S.F., O'Donovan, J. and Mooney, C.T. (2006) 'Changes in Canine Ionised Calcium under Three Storage

Conditions'. *Journal of Small Animal Practice*, 47 (7):383-386.

Conference Publications

Sheils, R., Brennan, S.F., Eluk, J. and Mooney, C.T. (2006) Thyroid function in young greyhounds BSAVA Congress, Birmingham, UK.

Brennan, S.F., Daminet, S., Mooney, C.T. and Rosenberg, D. (2006) Clinical efficacy and safety of Leventia for the treatment of hypothyroid dogs ACVIM Forum 2006, Louisville, Kentucky.

Dr Anne-Marie Butler

Conference Publications

Butler, A. M., Wallace, M. (2007) Analysis of key technical factors affecting the performance of Irish milk production systems. Proceedings of the Irish Grassland and Animal Production Association 33rd Annual Research Meeting, 2007 - Agricultural Research Forum - Tullamore, pp.54.

Dr Francis Butler

Books

Duffy, G., Butler, F., Cummins, E., O' Brien, S., Nally, P., Carney, E., Henchion, M., Mahon, D. and Cowan, C. (2006) *E. coli O157:H7 in beef burgers produced in the Republic of Ireland: A quantitative microbial risk assessment. Dublin: Teagasc Press.*

Peer Reviewed Journals

Corkery, G., Gonzales Barron, U., Butler, F., McDonnell, K. and Ward, S. (2007) 'A preliminary investigation on face recognition as a biometric identifier of sheep'. *Transactions of the American Society of Agricultural En*, 50 (1):313-320.

Barry, B.,* Gonzales Barron, U.,* Butler, F., McDonnell, K., and Ward, S. (2007) 'Using muzzle pattern recognition as a biometric approach for cattle identification'. *Transactions of the ASABE*, 50 (3):1073-1080.

Stojceska, V., Butler, F., Gallagher, E. and Keehan, D. (2007) 'A comparison of the ability of several small and large deformation rheological measurements of wheat dough to predict baking behaviour'. *Journal of Food Engineering*, 83 (4):475-482.

Brunton, N. P., Gormley, R., Butler, F., Cummins, E., Danaher, M., Minihan, M. and O'Keeffe, M. (2007) 'A survey of acrylamide precursors in Irish ware potatoes and acrylamide levels in French fries'. *Lebensmittel-Wissenschaft Und-Technologie*, 40 (9):1601-1609.

Other Journals

Ayalew, G., McCarthy, U., McDonnell, K., Butler, F., McNulty, P. and Ward, S.M. (2006) 'Electronic tracking and tracing in food and feed traceability'. *Electronic Scientific Journal of Logistics*, 2 (paper 5). <http://www.logforum.net>.

Duffy, G., Butler, F., Cummins, E., O' Brien, S., Nally, P., Carney, E., Henchion, M., Mahon, D., Cowan, C. (2006) 'E. coli

Conference Publications

HadiNezhad, M. and Butler, F. (2007) Effect of flour type on cake volume and cookie diameter evaluated dynamically during baking AACC - C&E Spring Meeting, Consumer Driven Cereal Innovation: Were Science Meets Industry, Montpellier, France.

Ktenioudaki, A., Butler, F. and Gallagher, E. (2007) The effects of different mixing processes on dough rheology and baked attributes AACC - C&E Spring Meeting, Consumer Driven Cereal Innovation: Were Science Meets Industry, Montpellier, France.

Cummins, E., Butler, F., Brunton, N. and Gormley, R. (2007) Consumer protection through process simulation models - Acrylamide case studies, 5th International Congress on Food Technology, Thessaloniki, Greece, 449 – 458.

Cummins, E., Butler, F., Brunton, N. and Gormley, R. (2006) Factors affecting acrylamide formation in processed potato products - A simulation approach IUFOST 13th World Congress of Food Science and Technology "Food is Life", Nantes, France, 691 – 705.

McCarthy, U., Ayalew, G., Butler, F., McDonnell, K. and Ward, S. (2006) Meat supply chain traceability using ultra-high frequency radio frequency identification IUFOST 13th World Congress of Food Science and Technology "Food is Life", Nantes, France, 1647 – 1648.

Nally, P., Cummins, E., Butler, F., Duggan, S., Prendergast, D. and Duffy, G. (2006) Development of a preliminary quantitative exposure assessment model for Salmonella spp. during pork slaughter in the Republic of Ireland IUFOST 13th World Congress of Food Science and Technology "Food is Life", Nantes, France, 1661 – 1662.

Cummins, E., Butler, F., Gormley, R. and Brunton, N. (2006) Simulation of the dietary exposure to acrylamide from French fries for Irish consumers 4th International Conference on Simulation Modelling in the Food and Bioindustry, University of Naples, Italy, 137 – 141.

Gonzales Barron, U. and Butler F. (2006) Bread pore quantification by cryo-scanning electron microscopy images Bubbles in Food 2: Novelty, Health and Luxury International Conference, Windermere, UK, 48.

Professor Sean Callanan

Peer Reviewed Journals

Daly, P., Drudy, D., Chalmers, W.S., Baxendale, W., Fanning, S., Callanan, J.J. (2006) 'Greyhound meningoencephalitis: PCR-based detection methods highlight an absence of the most likely primary inducing agents'. *Veterinary Microbiology*, 118 (3-4):189-200.

Jahns, H., Callanan, J.J., McElroy, M.C., Sammin, D.J., Bassett, H.F. (2006) 'Age-related and non-age-related changes in 100 surveyed horse brains'. *Veterinary Pathology*, 43(5):740-750.

Conference Publications

Fletcher, N.F., Brayden, D.J., Brankin, B. and Callanan, J.J. (2006) The interaction of feline immunodeficiency virus with a cell culture model of the feline blood brain barrier. International Feline Retrovirus Research Symposium, Washington DC.

Dr Deirdre Campion

Peer Reviewed Journals

Collins, C.B., McGrath, J., Baird, A.W. and Campion, D.P. (2007) 'Effect of mast cell degranulation on chicken ileal ion transport in vitro'. *Poultry Science*, 86 (5):843-9.

Professor Stephen Carrington

Peer Reviewed Journals

Tierney, J.B., Matthews, E., Carrington, S.D. and Mulcahy, G. (2007) 'Interaction of *Eimeria tenella* with intestinal mucin in vitro'. *Journal of Parasitology*, 93 (3):634-638.

Conference Publications

Matthews, E., Royle, L., Gierow, J.P., Corfield, A.P., Berry, M., Rudd P.M., Dwek, R.A., Fitzpatrick, E., Gallagher, M.E., Irwin, J., Reid, C.R. and Carrington, S. D. (2007) New insights into supramucosal gel turnover: the role of mucin glycosylation. Royal Society of Medicine. 8th Jenner Glycobiology and Medicine Symposium. Oct 2007 UCD Dublin.

Sobkowicz, A., Gallagher, M., Fahy, J.V., Nally, J. E., Carrington, S.D. and Irwin, J. (2007) Mucus turnover in the human airway. *Mucins in Health and Disease (9th International Workshop on Carcinoma-associated Mucins)* Robinson College Cambridge July 2007.

Smith, A., Clyne, M., Carrington, S.D., Drumm, B., and Reid, C. (2007) Construction and expression of a truncated version of MUC5AC as a model system to investigate its role in pathogen-mucosal interactions. *Mucins in Health and Disease (9th International Workshop on Carcinoma-associated Mucins)* Robinson College Cambridge July 2007.

Irwin, J.A., Reid, C.J., Thompson, L., Murphy, F., Donnelly, S., Marlin, D.J., Deaton, C.M. and Carrington, S.D. (2007) Glycosidase activity and mucin expression in equine airway and its association with recurrent airway obstruction. *Mucins in Health and Disease (9th International Workshop on Carcinoma-associated Mucins)* Robinson College Cambridge July 2007.

McNally, S., Clyne, M., Carrington, S.D. and Reid C (2007) The generation of a recombinant MUC2 clone to investigate the interaction of *Campylobacter jejuni* and intestinal mucus. *Mucins in Health and Disease (9th International Workshop on Carcinoma-associated Mucins)* Robinson College Cambridge July 2007.

Carrington, S.D., Cummins, C., Irwin, J.A., Duggan, V., Corfield, A.P., Fitzpatrick, E. and Reid, C.J. (2007) Expression of mucin and mucinase genes of the equine cervix in the normally cycling mare and in mares with ascending placentitis. *Mucins in Health and Disease (9th International Workshop on Carcinoma-associated Mucins)* Robinson College Cambridge July 2007.

Pluta, K., Fitzpatrick, E., Reid, C., and Carrington, S.D. (2007) An investigation of the supramucosal gel on the surface of the rainbow trout (*Oncorhynchus mykiss*). *Mucins in Health and Disease (9th International Workshop on Carcinoma-associated Mucins)* Robinson College Cambridge July 2007.

Cummins, C., Carrington, S.D., Irwin, J.A., Duggan, V., Corfield, A.P., Reid, C.J. and Fitzpatrick, E. (2007) A histological characterisation of equine cervical mucins at various stages of the reproductive cycle. *Mucins in Health and Disease (9th International Workshop on Carcinoma-associated Mucins)* Robinson College Cambridge July 2007.

Keely, S., Carrington, S., Haddleton, D., and Brayden, D. (2006) An in vitro mucus-secreting intestinal cell model for screening antibiotic effects of polymers. *Proc. Intern. Symp. Control Rel. Bioact. Mater.*

Dr Joe Cassidy

Peer Reviewed Journals

Sheehan, M., Cassidy, J.P., Brady, J., Ball, H., Doherty, M.L., Quinn, P.J., Nicholas, R.A.J. and Markey, B.K. (2007) 'An aetio-pathological study of chronic bronchopneumonia in lambs in Ireland'. *The Veterinary Journal*, 173 :630-637.

Shiel, R.E., Acke, E., Puggioni, A., Cassidy, J.P. and Mooney, C.T. (2007) 'Tertiary hypothyroidism in a dog'. *Irish Veterinary Journal*, 60 (2):88-93.

Lewis, R., Behnke, J.M., Cassidy, J.P., Stafford, P., Murray, N. and Holland, C.V. (2007) 'The migration of *Ascaris suum* larvae, and the associated pulmonary inflammatory response in susceptible C57BL/6j and resistant CBA/Ca mice'. *Parasitology*, 134 :1301-1314.

Dr John Connolly

Peer Reviewed Journals

Connolly, J., Holden, N.M and Ward, S.M. (2007) 'Mapping Peatlands in Ireland using a Rule-Based Methodology and Digital Data'. *Soil Science Society of America Journal*, 71 :492-499.

<http://soil.scijournals.org/cgi/content/abstract/71/2/492>

Other Journals

Connolly, J, Holden, N.M and Ward, S.M. (2006) 'Detecting vegetation change with remote sensing: an evaluation of threshold limits for blanket bog. ' *Biosystems engineering research review*.

Conference Publications

Connolly, J., Roulet, N., Seaquist, J., Holden, N., Lafleur, P., Humphreys, E., Heumann, B., Ward, S. (2007) Using satellite and flux tower data to derive the light use efficiency for two Canadian peatlands. *Carbon in Peatlands*, Wageningen (Netherlands).

Connolly, J. and Holden, N.M (2006) Using GIS and remote sensing to study the Irish peatland resource. *Irish Peat Society*, Dublin, Ireland.

Published Reports

Ward, S.M., Connolly, J., Walsh, J., Dahlmann, L. and Holden, N.M. (2007) *CLIMATE CHANGE : Modelling Carbon Fluxes from Irish Peatlands: Towards the Development of a National Carbon Fluxes Inventory for Irish Peatlands (2000-LS-5.1.2b-M1) Synthesis Report . EPA*, www.epa.ie/downloads/pubs/research/climate/ward%20report%20for%20web.pdf.

Professor Frank Crosby

Peer Reviewed Journals

Smith, N.A., Lonergan, P., Duffy, P., Crosby, T.F., Quinn, P., McAuliffe, F. and Evans, A.C.O. (2007) 'Undernutrition

during the periconceptional period in ewes affects the blood pressure and weight of their neonatal lambs'. *Reproduction Fertility and Development*, 19 (1):194-195.

Professor Mark Crowe

Peer Reviewed Journals

Buckham Sporer, K.R., Burton, J.L., Earley, B. and Crowe, M.A. (2007) 'Transportation stress in young bulls alters expression of neutrophil genes important for the regulation of apoptosis, tissue remodeling, margination, and anti-bacterial function'. *Veterinary Immunology and Immunopathology*, 118 :19-29.

Gupta, S., Earley, B. and Crowe, M.A. (2007) 'Effect of 12 hour road transportation on physiological, immunological and haematological parameters in bulls housed at different space allowances'. *The Veterinary Journal*, 173 (3):605-616.

Gupta, S., Earley, B., Ting, S.T.L. and Crowe, M.A. (2007) 'Pituitary, adrenal, immune and performance responses of Holstein Friesian bulls housed on slatted floors at various space allowances'. *The Veterinary Journal*, 173 (3):594-604.

Ryan, K.M., Casey, S.M., Canty, M.J., Crowe, M.A., Lonergan, P., Martin, F., and Evans, A.C.O. (2007) 'Signal transduction pathways Akt and Erk are early markers of differentiation in dominant and subordinate ovarian follicles in cattle'. *Reproduction*, 133 (3):617-626.

Dr Enda Cummins

Books

Duffy, G., Butler, F., Cummins, E., O'Brien, S., Nally, P., Carney, E., Henchion, M., Mahon, D., Cowan, C. (2006) *E.coli O157:H7 in beefburgers produced in the republic of Ireland: A quantitative microbial risk assessment*. Ireland: Tgc.

Conference Publications

Tiwari, U., Cummins, E. and Butler, F. (2007) Development of a predictive model for human exposure to β -glucan in bread 37th Annual Research Conference: Food, Nutrition and Consumer Sciences.

Fontana, M. Cummins, E. Buiatti S. and Sensidoni (2007) A comparison of two different probabilistic approaches to assess the uncertainty distribution of β -glucan levels in barley grain. 37th Annual Research Conference: Food, Nutrition and Consumer Sciences.

Duffy, G., Cummins, E., Nally, P. and Butler, F. (2007) E.coli O157:H7 in Beef Burgers Produced in the Republic of Ireland: a Quantitative Microbial Risk. 5th International Conference on Predictive Modelling in Foods, Athens, Greece, 407 – 410.

Cummins, E., Butler, F., Brunton, N. and Gormley, R. (2007) Predictive modelling for quantitative risk assessment in the food industry. 5th International Conference on Predictive Modelling in Foods, Athen, Greece, 437 – 440.

Cummins, E. and Butler, F. (2007) Predictive modelling of the dietary intake and bio-availability of beta-glucan in bread. 5th International Conference on Predictive Modelling in Foods, Athens, Greece, 479 – 482.

Cummins E., Butler F., Brunton N., Gormley R. (2007) Agri-food processing and their effects on acrylamide formation. CIGR Section VI- 3rd International Symposium, Naples, Italy, P4.1 - 4.11.

Coffey R., Cummins E., Cormican M., and O'Flaherty V. (2007) Risk assessment of microbial pathogens in rural

watersheds: A review of current modelling methodologies, capabilities and techniques The European Symposium on waterborne pathogens in surface and drinking waters, Luxembourg, 75.

O'Brien N., and Cummins E. (2007) Development of a risk assessment framework model for evaluating human exposure to nanoparticles through environmental pathways. International Nanotoxicology Conference, San Servolo Servizi, Venice, Italy, 58 – 59.

Kennedy, R. and Cummins, E. (2007) Modelling of drinking water treatment processes and their phase impact on levels of *Cryptosporidium*. Environ 2007, Carlow, Ireland, 124.

Cummins, E. and Adkin, A. (2007) Risks from the use of category 3 abattoir waste on non-pasture agricultural land. Environ 2007, Carlow, Ireland, 117.

O'Brien, N. and Cummins, E. (2007) Development of a risk assessment framework model for evaluating human exposure to nanoparticles through environmental pathways. Environ 2007, Carlow, Ireland, 127.

Coffey, R. and Cummins, E. (2007) Evaluation of current approaches to modelling microbial contamination of watersheds. Environ 2007, 125.

O'Hanlon, T. and Cummins, E. (2007) Risk assessment of TSEs through environmental pathways. Environ 2007, Carlow, Ireland.

Cummins E., Butler F., Brunton N. and Gormley R. (2007) Consumer protection through process simulation models 5th International Congress on Food Technology, Consumer protection through food process improvement & innovation in the real world, Thessaloniki, Greece, 449 – 458.

Cummins, E. and Adkin, A. (2006) Risks from the use of mammalian meat and bone meal as a soil improver. Prion 2006 Strategies, advances and trends towards protection of society, 109.

Cummins, E., Paisley, L., de Koeijer, A., Hagenaars, T., Murray, D., Guarnieri, F., Adkin, A. Jacob, C (2006) An integrated European approach to TSE risk assessment. 4th International conference on simulation modelling in the food and bio industry, 207.

Cummins, E., Coffey, R. & Ward, S. (2006) Mycotoxin transfer along the feed to food chain: a simulation approach. 4th International conference on simulation modelling in the food and bio industry, Naples, Italy, 203 - 206

Cummins, E., Butler, F., Gormley, R. Brunton, N. (2006) Simulation of the dietary exposure to acrylamide from French fries for Irish consumers. 4th International conference on simulation modelling in the food and bio industry, 137 – 141.

Cummins, E. Butler, F., Gormley R. and Brunton N. (2006) (2006) Simulation of the dietary exposure to acrylamide from French fries for Irish consumers. International conference paper, Foodsim2006, 15-17 June 2006, Naples, Italy, 137 - 142.

Dr Tom Curran

Peer Reviewed Journals

Garry, B.P., Fogarty, M., Curran, T.P., O'Connell M.J. and O'Doherty, J.V. (2007) 'The effect of cereal type and enzyme addition on pig performance, intestinal microflora, and ammonia and odour emissions'. *Animal*, 1 (5):751-757.

Garry, B.P., Fogarty, M., Curran, T.P. and O'Doherty, J.V. (2007) 'Effect of cereal type and exogenous enzyme supplementation in pig diets on odour and ammonia emissions'. *Livestock Science*, 109 (1-3):212-215.

Conference Publications

Solan, P.J., Curran, T.P., Dodd, V.A., Wilkes, R., Heavey, M. and Dennison, G. (2007) Assessment of the suitability of alternative landfill daily cover materials. Proceedings Sardinia 2007, Eleventh International Waste Management and Landfill Symposium.

Curran, T.P., Blaney, C., Cummins, E.J., Holden, N.M. and McDonnell, K.P. (2007) The Biosystems Engineering Design Challenge at University College Dublin ASABE Annual Meeting, Minneapolis. USA.

Curran, T.P., Magette, W.L. and Dodd, V.A. (2007) Evaluation of ISC3 and CALPUFF Atmospheric Dispersion Models for Odor Nuisance Prediction. ASABE Annual Meeting, Minneapolis. USA.

Fogarty, M., Curran, T., Dodd, V. and Stewart, J. (2006) Sensor array for the measurement of malodour concentration from intensive agricultural sources. Paper No. 476 World Agricultural Engineering (CIGR) Conference, Bonn, Germany.

Dr Theo De Waal

Peer Reviewed Journals

Zintl, A., Mulcahy, G., de Waal, T., de Waele, V., Byrne, C., Clyne, M., Holden, N. & Fanning, S. (2006) 'An Irish perspective on *Cryptosporidium*'. IRISH VETERINARY JOURNAL, 58 (8):442-447.

Conference Publications

Kelly, P., Good, B., Fitzpatrick, R., Hanrahan, J.P., Mulcahy, G. and de waal, T., (2007) Candidate endoparasitic fungi for the use in the biological control of ovine parasites. 21st International Conference of the World Association of Veterinary Parasitology, Gent, Belgium, 201.

Relf, V., Good, B., Gray, J., Mulcahy, G., Forbes, A., Murphy, T. & de Waal, T. (2007) The population dynamics of *Lymnaea truncatula* in the west of Ireland and the prevalence of *Fasciola hepatica* within the intermediate host. 21st International Conference of the World Association of Veterinary Parasitology, Gent, Belgium, 249.

Kelly, P., Good, B., Fitzpatrick, R., Hanrahan, J.P. & de Waal, D.T. (2007) Survey of nematophagous fungi on sheep farms in Ireland. 21st International Conference of the World Association of Veterinary Parasitology, Gent, Belgium, 269.

Patten, T., Good, B., Hanrahan, J.P., Mulcahy, G. and de Waal, D.T. (2007) Parasite control practices on lowland sheep farms in Ireland. 21st International Conference of the World Association of Veterinary Parasitology, Gent, Belgium, 268.

Good, B., Patten, T., Hanrahan, J.P., Mulcahy, G. and de Waal, D.T. (2007) Anthelmintic resistance in Ireland: current status. 21st International Conference of the World Association of Veterinary Parasitology, Gent, Belgium, 392.

Kelly, P., Good, B., Fitzpatrick, R., Hanrahan, J.P. & de Waal, D.T. (2007) Development of a PCR diagnostic test for detection of *Duddingtonia flagrans*. 21st International Conference of the World Association of Veterinary Parasitology, Gent, Belgium, 270.

Zintl, A., Neville, D., Maguire, D., Mulcahy, G. & de Waal, T. (2007) Mixed *Cryptosporidium* infections in conventionally reared pigs in Ireland. British Society for Parasitology - Spring & Malaria Meeting, Queens University, Belfast, Northern Ireland, 58.

Patten, T., Good, B., Hanrahan, J.P., Mulcahy, G. and de Waal, D.T. (2006) Parasite control practices and anthelmintic resistance in lowland sheep farms in Ireland. Association of Veterinary Teachers and Research Workers Annual Conference.

de Waal, T., Zintl, A., Neville, D., Maguire, D., Leggett, B. (2006) Cryptosporidiosis in pigs in Ireland. Association of Veterinary Teachers and Research Workers Annual Conference.

de Waal, T., Gray, J., Good, B., Murphy, T., Mulcahy G., & Relf V. (2006) Climate Change & Fasciolosis: What lies ahead? Association of Veterinary Teachers and Research Workers Annual Conference.

Dr Ger Jason Devlin

Peer Reviewed Journals

Devlin, G., McDonnell, K., Ward, S. (2007) 'Timber haulage routing in Ireland: an analysis using GIS and GPS'. Journal of Transport Geography (Elsevier Science). http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6VG8-4NJX435-1&_user=103682&_coverDate=04%2F24%2F2007&_alid=636771087&_rdoc=1&_fmt=summary&_orig=search&_cdi=6032&_sort=d&_docanchor=&view=c&_ct=1&_acct=C000007921&_version=1&_urlVersion=0&_userid=

Devlin, G., McDonnell, K., Ward, S. (2007) 'Performance accuracy of low cost dynamic non-differential GPS on articulated trucks'. Journal of Applied Engineering in Agriculture. <http://asae.frymulti.com/abstract.asp?aid=22680&t=2>

Devlin, G., McDonnell, K., Ward, S. (2007) 'Dynamic Non DGPS positional accuracy performance between recreational and professional GPS receivers'. Journal of Location Based Services. <http://www.informaworld.com/smpp/content~content=a779468037~db=all~jumptype=rss>

Professor Michael Liam Doherty

Peer Reviewed Journals

Murphy, A.M., MacHugh, D.E., Park, S.D.E., Scraggs, E., Haley, C.S., Lynn, D.J., Boland, M.P. and Doherty, M.L. (2007) 'Linkage mapping of the locus for inherited ovine arthrogyposis (IOA) to sheep Chromosome 5'. Mammalian Genome, 18 (1):43-52.

Dr Vivienne Duggan

Peer Reviewed Journals

Duggan, V.E., Holyoak, G.R., Macallister, C.G. and Confer, A.W. (2007) 'Influence of induction of parturition on the neonatal acute phase response in foals'. Theriogenology, 67 (2):372-381.

Conference Publications

Duggan VE (2007) Peripartum Emergencies of the Mare and Foal. University Veterinary Hospital Conference, Dublin Ireland.

Professor Alexander Evans

Books Edited

Evans, A. and Mulligan, F (Ed.). (2006) Nutrition and Fertility in Dairy Cattle. Amsterdam: Elsevier.

Peer Reviewed Journals

Corcoran, D., Evans, A.C.O., Lonergan, P. and Fair, T. (2007) 'Temporal expression of transcripts related to embryo quality in bovine embryos cultured from the two-cell to blastocyst stage in vitro or in vivo'. *Molecular Reproduction and Development*, 74 (8):972-977.

Mossa, F., Duffy, P., Naitana, S., Lonergan, P. and Evans, A.C.O. (2007) 'Association between numbers of ovarian follicles in the first follicle wave and superovulatory response in ewes'. *Animal Reproduction Science*, 100 (3-4):391-396.

Lonergan, P., Woods, A., Fair, T., Carter, F., Rizos, D., Ward, F., Quinn, K. and Evans, A.C.O. (2007) 'Effect of embryo source and recipient progesterone environment on embryo development in cattle'. *Reproduction, Nutrition and Development*, 19 (7):861-868.

Hawken, P.A.R., Beard, A.P., Esmaili, T., Kadokawa, H., Evans, A.C.O., Blache, D. and Martin, G.B. (2007) 'The introduction of rams induces an increase in pulsatile LH secretion in cyclic ewes during the breeding season'. *Theriogenology*, 68 (1):56-66.

Ireland, J.J., Ward, F., Jimenez-Krassel, F., Ireland, J.L.H., Smith, G.W., Lonergan, P. and Evans, A.C.O. (2007) 'Follicle numbers are highly repeatable within animal but inversely correlated with FSH concentrations and the proportion of good quality embryos after superstimulation in cattle'. *Human Reproduction*, 22 (6):1687-1695.

O'Meara, C.M., Hanrahan, J.P., Donovan, A., Duffy, P., Evans, A.C.O. and Lonergan, P. (2007) 'Resuspending ram spermatozoa in seminal plasma after cryopreservation does not improve pregnancy rates in cervically inseminated ewes'. *Theriogenology*, 67 (7):1262-1268.

Ryan, K.M., Casey, S.M., Cauty, M.J., Crowe, M.A., Martin, F. and Evans, A.C.O. (2007) 'Akt and Erk signal transduction pathways are early markers of differentiation in dominant and subordinate ovarian follicles in cattle'. *Reproduction*, 133 (3):617-626.

Fair, S., Hanrahan, J.P., Donovan, A., Duffy, P., O'Meara, C.M., Lonergan, P. and Evans, A.C.O. (2007) 'Hormonal relationships during the periovulatory period among ewe breeds known to differ in fertility after cervical artificial insemination with frozen thawed semen'. *Animal Reproduction Science*, 97 (3-4):284-294.

Other Journals

Evans, A.C.O., Zielak, A. and Forde, N. (2007) 'Will a better understanding of follicle development solve the fertility problem in cattle?' *Cattle Practice*, 15 (1):13-17.

Conference Publications

Carter, F., Fair, T., Park, S., Wade, M., Evans, A.C.O. and Lonergan, P. (2007) Gene expression profiling of immature and in vitro-matured bovine oocytes using affymetrix genechip technology. In: *Reproduction Fertility Development*, 19 eds. Annual Conference of the International Embryo Transfer Society, Kyoto, Japan, 248 – 248.

Smith, N., Lonergan, P., Duffy, P., Crosby, T.F., McAuliffe, F. and Evans, A.C.O. (2007) Undernutrition during the periconceptual period in ewes affects the blood pressure and weight of their neonatal lambs. In: *Reproduction Fertility Development*, 19 eds. Annual Conference of the International Embryo Transfer Society, Kyoto, Japan, 194 – 194.

Berry, D.P., Lonergan, P., Butler, S.T. and Evans, A.C.O. (2007) Dairy cow energy status early in pregnancy does not affect the reproductive performance of primiparous female progeny. 58th Annual meeting of European Association for Animal Production, Dublin, Ireland, 22.11 - 22.11.

de Feu, M., Evans, A.C.O., Lonergan, P. and Butler, S. (2007) Effects of dry period duration and dietary energy density on transition period metabolic status and postpartum ovarian function in dairy cows. In: M Royal eds. An International Conference: Fertility in Dairy Cows, bridging the gaps, Liverpool, UK, 41 – 41.

Mossa, F., Butler, S., Duffy, D., Jimenez-Krassel, F., Folger, J., Smith, G.W., Lonergan, P., Ireland, J.J. and Evans, A.C.O. (2007) Distribution of follicle numbers in dairy cows aged from 2 to 11 years. In: M Royal eds. An International Conference: Fertility in Dairy Cows, bridging the gaps, Liverpool, UK, 37 – 37.

Berry, D.P., Lonergan, P., Butler, S.T., Cromie, A.R., Mossa, F., Fair, T. and Evans, A.C.O. (2007) Adult dairy cow performance is influenced by intrauterine environment. In: M Royal eds. An International Conference: Fertility in Dairy Cows, bridging the gaps, Liverpool, UK, 40 – 40.

Zielak, A.E., Ward, F., Forde, N., Mossa, F., Lonergan, P., Smith, G.W., Ireland, J.J. and Evans, A.C.O. (2007) Comparison of ovarian follicles at follicle wave emergence between heifers with high versus low numbers of follicles. In: M Royal eds. An International Conference: Fertility in Dairy Cows, bridging the gaps, Liverpool, UK, 14 – 14.

Carter, F., Forde, N., Duffy, P., Wade, M., Fair, T., Crowe, M.A., Evans, A.C.O., Roche, J.F. and Lonergan, P. (2007) Progesterone profiles and embryo development in beef heifers with elevated progesterone concentrations. In: Royal, M eds. An International Conference: Fertility in Dairy Cows, bridging the gaps, Liverpool, UK, 9 – 9.

Smith, G.W., Rosa, G.J.M., Coussens, P.M., Halgren, R., Evans, A.C.O., Mihm, M., Lonergan, P., Ireland, J.J. (2006) Interpretation of microarray data: Trudging out of the abyss towards elucidation of biological significance. Triennial Reproduction Symposium at the American Society of Animal Science, American Dairy Science Association, July 2006.

Dr Colette Fagan

Peer Reviewed Journals

Fagan, C.C., Everard, C., O'Donnell, C.P., Downey, G., Sheehan, E.M., Delahunty, C.M. and O'Callaghan, D.J. (2007) 'Evaluating mid-infrared spectroscopy as a new technique for predicting sensory texture attributes of processed cheese'. *Journal of Dairy Science*, 90 (3):1122-1132.

Fagan, C.C., O'Donnell, C.P., O'Callaghan, D.J., Downey, G., Sheehan, E.M., Delahunty, C.M., Everard, C., Guinee, T.P., Howard, V. (2007) 'Application of Mid-Infrared Spectroscopy to the Prediction of Maturity and Sensory Texture Attributes of Cheddar Cheese'. *Journal of Food Science*, 72 (3):E130-E137.

Fagan, C.C., Leedy, M., Castillo, M., Payne, F. A., O'Donnell, C.P. and O'Callaghan, D.J. (2007) 'Development of a light scatter sensor technology for on-line monitoring of milk coagulation and whey separation'. *Journal of Food Engineering*, 83 (1):61-67.

Fagan, C.C., Castillo, M., Payne, F.A., O'Donnell, C.P. and O'Callaghan, D.J. (2007) 'Effect of cutting time, temperature and calcium on curd moisture, whey fat losses and curd yield by response surface methodology'. *Journal of Dairy Science*, 90 :4499-4512.

Fagan, C.C., Everard, C., O'Donnell, C.P., Downey, G., Sheehan, E.M., Delahunty, C.M., O'Callaghan, D.J. and Howard, V. (2007) 'Prediction of processed cheese instrumental texture and meltability by mid-infrared spectroscopy coupled with chemometric tools'. *Journal of Food Engineering*, 80 (4):1068-1077.

Everard, C.D., Fagan, C.C., O'Donnell, C.P., O'Callaghan, D.J., Castillo, M., Payne, F.A. (2007) 'Computer vision and colour measurement techniques for inline monitoring of cheese curd syneresis'. *Journal of Dairy Science*, 90 :3162-3170.

Fagan, C.C., O'Donnell, C.P., Cullen, P.J., Brennan, C.S. (2006) 'The effect of dietary fibre inclusion on milk coagulation kinetics'. *Journal of Food Engineering*, 77 :261-268.

Everard, C.D., O'Donnell, C.P., Fagan, C.C., O'Callaghan, D.J., Castillo, M. and Payne, F.A. (2006) 'Computer vision analysis to monitor syneresis of cheese curd in a cheese vat'. *Journal of Animal Science*, 84 :424-424.

Everard, C.D., Fagan, C.C., O'Donnell, C.P., O'Callaghan, D.J. and Lyng, J.G. (2006) 'Dielectric properties of process cheese from 0.3 to 3 GHz'. *Journal of Food Engineering*, 75 :415-422.

Conference Publications

Fagan, C.C., O'Donnell, C.P., O'Callaghan, D.J., Castillo, M., Payne, F.A. (2007) Application of the visible and near-infrared spectra in conjunction with chemometrics for prediction of curd moisture content during syneresis. CIGR Section VI Food and Agricultural Products: Processing and Innovations, Naples, Italy.

Everard C.D., O'Callaghan D.J., Mateo M.J., O'Donnell C.P., Fagan, C.C., Castillo, M. and Payne, F.A. (2007) Effects of Coagulum Cutting Mode and Curd Stirring Speed on Syneresis and Whey Solids in Pilot Scale Cheese Making. CIGR Section VI Food and Agricultural Products: Processing and Innovations, Naples, Italy.

Fagan C.C., M. Castillo, C.P. O'Donnell, D.J. O'Callaghan, F.A. Payne (2007) Optical measurement of curd shrinkage during cheese manufacturing. ADSA-PSA-AMPA-ASAS Joint Annual Meeting, San Antonio, USA.

Fagan C.C., Castillo, M., O'Donnell, C.P., O'Callaghan, D.J. and Payne, F.A. (2007) Sensitivity of a prototype syneresis sensor to casein micelle aggregation and curd firming during milk coagulation. 1st International Chester Food. Science and Technology (ICFST) Conference, Chester, UK.

Talens C., C.D. Everard, D.J. O'Callaghan, C.P. O'Donnell, C.C. Fagan and M. Castillo (2007) Evaluation of a tracer method for estimation of whey volume during cheese curd syneresis. 37th Annual Research Conference: Food, Nutrition and Consumer Sciences, Cork, Ireland.

Fagan, C.C., C.P. O'Donnell, M. Castillo, F.A. Payne and D.J. O'Callaghan (2007) Effect of Temperature on Fat Globule Release during Curd Shrinkage in Cheese Manufacture. International Dairy Federation World Dairy Summit, Dublin, Ireland.

Mateo M.J., D.J. O'Callaghan, C.D. Everard, C.C. Fagan, C.P. O'Donnell, M. Castillo (2007) The Application of Light Reflectance at 980 nm to Monitor Syneresis in Cheese-making. EFFoST-EHEDG Joint Conference, Lisbon, Portugal.

Everard, C.D., O'Donnell, C.P., Fagan, C.C., O'Callaghan, D.J., Castillo, M., Payne, F.A. (2006) Application of computer vision to control curd and whey quality during cheese syneresis. EFFoST Annual Meeting/Total Food, The Hague, Netherlands.

Everard, C.D., O'Donnell, C.P., Fagan, C.C., O'Callaghan, D.J., Castillo, M., Payne, F.A. (2006) Reflection photometry and physio-chemical measurements to monitor cheese curd syneresis. 36th Annual Research Conference Food, Nutrition and Consumer Sciences, Cork, Ireland.

Fagan C.C., M. Castillo and C.P. O'Donnell (2006) Evaluation of a large field view sensor to monitor coagulation and syneresis. *Biosystems Engineering Research Review*, Dublin, Ireland.

Dr Trudee Fair

Peer Reviewed Journals

Carter, F., Fair, T., Park, S., Wade, M., Evans, A.C.O., Lonergan, P. (2007) 'Gene expression profiling of immature and in vitro-matured bovine oocytes using affymetrix genechip technology'. *Reproduction Fertility and Development*, 19 (1):248-248.

Doyle, J., Ellis, S.A., Lonergan, P., Fair, T. (2007) 'Classical and non-classical major histocompatibility complex class I gene expression in in vitro-derived bovine embryos'. *Reproduction Fertility and Development*, 19 (1):250-250.

Conference Publications

Doyle, J., Ellis, S.A., Lonergan, P., and Fair, T. (2007) Classical and Non-Classical Major Histocompatibility Complex Class I Gene Expression in In Vitro Derived Embryos. International Embryo Transfer Association, Kyoto, Japan.

Professor Séamus Fanning

Peer Reviewed Journals

Iversen, C., Lerhner, A., Mullane, N., Bidlas, E., Cleenwerck, I., Marugg, J., Fanning, S., Stephan, R. and Joosten, H. (2007) 'The identification and taxonomy of *Enterobacter sakazakii*: a proposed new genus *Cronobacter* gen. nov. containing type species *Cronobacter sakazakii* subsp. *sakazakii*, *Cronobacter sakazakii* subsp. nov. *malonaticus*, *Cronobacter turicensis* subsp. nov., *Cronobacter dublinensis* subsp. *dublinensis* subsp. nov., *Cronobacter dublinensis* subsp. nov., *lausanensis* subsp., *Cronobacter dublinensis* subsp. nov. *lactardi* subsp. nov. and *Cronobacter* genomospecies 1'. *BMC Evolutionary Biology*, 7 :64-75.

Drudy, D., Quinn, T., O'Mahony, R., Kyne, L. and Fanning, S. (2007) 'Mutations in fluoroquinolone resistance *Clostridium difficile* PCR O27'. *Emerging Infectious Diseases*, 13 :504-505.

Mullane, N.R., Whyte, P., Wall, P., Quinn, T. and Fanning, S. (2007) 'Application of pulsed-field gel electrophoresis to characterise and control the transmission of *Enterobacter sakazakii* in infant formula processing facility'. *International Journal of Food Microbiology*, 116 :73-81.

Mullane, N.R., Iversen, C., Healy, B., Walsh, C., Whyte, P., Wall, P. G., Quinn, T. and Fanning, S. (2007) '*Enterobacter sakazakii*: an emerging bacterial pathogen with implications for infant health'. *Minerva Pediatrics*, 59 :137-148.

Quinn, T., Bolla, J.-M., Pages, J.-M. and Fanning, S. (2007) 'Antibiotic resistant *Campylobacter*: could efflux pump inhibitors control infection?'. *Journal of Antimicrobial Chemotherapy*, 59 :1230-1236.

Drudy, D., Harnedy, N., Fanning, S., O'Mahony, R., Baird, A. and Kyne, L. (2007) 'Isolation and characterisation of toxin A-negative, toxin B-positive *C. difficile* in Dublin, Ireland'. *Clinical Microbiology and Infection*, 13 :298-304.

Murphy, M., Corcoran, D., Buckley, J. F., O'Mahony, M., Whyte, P. and Fanning, S. (2007) 'Development and application of MLVA to subtype a collection of *Listeria monocytogenes*'. *International Journal of Food Microbiology*, 115 :187-194.

Martins, M., Santos, B., Martins, A., Viveiros, M., Couto, I., Cruz, A., The Management Committee Members of Cost B16 of the European Commission/European Science Foundation, Pages, J.-M., Molnar, J., Fanning, S., Cruz, A. and Amaral, L. (2006) 'An instrument free method for the demonstration of efflux pump activity of bacteria'. *In Vivo*, 20 :657-664.

Walsh, C., Duffy, G., O'Mahony, R., Fanning, S., Blair, I.S. and McDowell, D.A. (2006) 'Antimicrobial Resistance in Irish isolates of Verocytotoxinogenic *Escherichia coli* (*E. coli*)-VTEC'. *International Journal of Food Microbiology* .

Other Journals

Whyte, P., McGill, K., Kelly, L., Acke, E., Collins, J.D., Fanning, S., Lawlor, A., Jones, B., Madden, R., Moran, L., Scates, P., Carroll, C., O'Leary, A., McNamara, E., Moore, J., Cormican, M. (2006) 'A comparative study of thermophilic

Campylobacter isolates of clinical, food and pet origin'.

Dr Eileen Gibney

Peer Reviewed Journals

Parle-McDermott, A., Pangilinan, F., Mills, J.L., Kirke, P.N., Gibney, E.R., Troendle, J., O'Leary, V.B., Molloy, A.M., Conley, M., Scott, J.M., Brody, L.C. (2007) 'The 19-bp Deletion Polymorphism in Intron-1 of Dihydrofolate Reductase (DHFR) May Decrease Rather Than Increase Risk for Spina Bifida in the Irish Population'. *American Journal of Medical Genetics*, 143A :1174-1180.

Powers, H.J., Hill, M.H., Welfare, M., Spiers, A., Bal, W., Russell, J., Duckworth, Y., Gibney, E., Williams, E.A., Mathers, J.C. (2007) 'Responses of biomarkers of folate and riboflavin status to folate and riboflavin supplementation in healthy and colorectal polyp patients (the FAB2 Study)'. *Cancer Epidemiology Biomarkers and Prevention*, 16 (10):2128-2135.

Professor Mike Gibney

Peer Reviewed Journals

Oost, H.G., Gibney, M.J., Cashman, K.D., Gorman, U., Hesketh, J.E., Mueller, M., van Ommen, B. (2007) 'Personalised nutrition: status and perspectives'. *British Journal of Nutrition*, 98 (1):26-31.

McNamara, C., Rohan, D., Golden, D., Gibney, M., Hall, B., Tozer, S., Safford, B., Coroama, M., Leneveu-Duchemin, M., Steiling, W. (2007) 'Probabilistic modelling of European consumer exposure to cosmetic products'. *Food Chem Toxicol* .

Burke, S.J., McCarthy, S.N., O'Neill, J.L., Hannon, E.M., Kiely, M., Flynn, A., Gibney, M.J. (2007) 'An examination of the influence of eating location on the diets of Irish'. *Public Health Nutrition*, 10 (6):599-607.

Kroes, R., Renwick, A.G., Feron, V., Galli, C.L., Gibney, M., Greim, H., Guy, R.H., Lhuguenot, J.C., van de Sandt, J.J. (2007) 'Application of the threshold of toxicological concern (TTC) to the safety evaluation of cosmetic ingredients'. *Food Chem Toxicol* .

Neill, J.L., McCarthy, S.N., Burke, S.J., Hannon, E.M., Kiely, M., Flynn, A., Flynn, M.A., Gibney, M.J. (2007) 'Prevalence of overweight and obesity in Irish school children, using four different definitions'. *Eur J Clin Nutr*, 61 (6):743-51.

Duffy, E. & Gibney, M.J. (2007) 'Use of a food-consumption database with packaging information to estimate'. *Food Additives and Contaminants*, 24 (2):216-225.

Hearty, A.P., McCarthy, S.N., Kearney, J.M., Gibney, M.J. (2007) 'Relationship between attitudes towards healthy eating and dietary behaviour'. *Appetite*, 48 (1):1-11.

Hearty, A.P., McCarthy, S.N., Kearney, J.M., Gibney, M.J. (2007) 'Relationship between attitudes towards healthy eating and dietary behaviour, lifestyle and demographic factors in a representative sample of Irish adults'. *Appetite* .

Hall, B., Tozer, S., Safford, B., Coroama, M., Steiling, W., Leneveu-Duchemin, M.C., McNamara, C., Gibney, M. (2007) 'European consumer exposure to cosmetic products, a framework for conducting population exposure assessments'. *Food Chemical Toxicology*, 45 (11):2097-2108.

Dr Ursula Andrea Gonzales-Barron

Peer Reviewed Journals

Corkery, G., Gonzales Barron, U., Butler, F., McDonnell, K., Ward, S. (2007) 'A preliminary investigation on face recognition as a biometric identifier of sheep'. Transactions of the ASABE, 50 (1):313-320.
<http://asae.frymulti.com/abstract.asp?aid=22395&t=2>

Barry, B., Gonzales Barron, U., Butler, F., McDonnell, K., Ward, S. (2007) 'Using muzzle pattern recognition as a biometric approach for cattle identification'. Transactions of the ASABE, 50 (3):1073-1080.
<http://asae.frymulti.com/abstract.asp?aid=23121&t=1>

Gonzales Barron, U., Butler, F. (2006) 'A comparison of seven thresholding techniques with the k-means clustering algorithm for measurement of bread crumb features by digital image analysis'. Journal of Food Engineering, 74 (2):268-278. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6T8J-4G7G45X-3&_user=103682&_coverDate=05%2F31%2F2006&_alid=640152911&_rdoc=1&_fmt=summary&_orig=search&_cdi=5088&_sort=d&_docanchor=&view=c&_ct=1&_acct=C000007921&_version=1&_urlVersion=0&_userid=

Dr Eamonn Gormley

Peer Reviewed Journals

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 (1):53-62.

More, S.J., Clegg, T.A., McGrath, G., Collins, J.D., Corner, L.A., Gormley, E. (2007) 'Does reactive badger culling lead to an increase in tuberculosis in cattle?'. Veterinary Record, 11 (161):208-209.

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 .

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 (2):330-338.

Other Journals

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, 416/2007 :101-109.

Dr Aoife Gowen

Peer Reviewed Journals

Gowen, A., Abu-Ghannam, N., Frias, J., & Oliveira, J. (2007) 'Modelling the water absorption process in chickpeas (*Cicer arietinum* L.) - the effect of blanching pretreatment on water intake and texture kinetics'. Journal of Food Engineering, 78 :810-819.

Gowen, A., Abu-Ghannam, N., Frias, J., & Oliveira, J. (2007) 'Characteristics of cooked chickpeas and soybeans during combined microwave-convective hot air drying'. Journal of Food Processing and Preservation, 34 .

Gowen, A., Abu-Ghannam, N., Frias, J., & Oliveira, J. (2006) 'Optimisation of dehydration and rehydration properties of cooked chickpeas (*Cicer arietinum* L.) undergoing microwave - hot air combination drying'. *Trends in Food Science & Technology*, 17 :177-183.

Gowen, A., Abu-Ghannam, N., Frias, J., & Oliveira, J. (2006) 'Comparative study of quality changes occurring upon dehydration and rehydration of cooked chickpeas (*Cicer Arietinum* L.) subjected to combined microwave-convective hot-air dehydration and convective hot-air dehydration'. *Journal of Food Science*, 71 :E282-E289.

Dr Alison J Hanlon

Peer Reviewed Journals

Hanlon, A.J., Algers, A., Dich, T., Hansen, T., Loor H., & Sandoe, P. (2007) 'Animal Ethics Dilemma': an interactive learning tool for university and professional training'. *Animal Welfare*, 16 (S):155-158.

<http://www.ingentaconnect.com/content/ufaw/aw/2007/00000016/A00102s1/art00023>

Other Journals

Hanlon, A.J., Dich, T., Hansen, T., Loor, H, Sandøe, P. & Algers, A. (2006) 'Animal Ethics Dilemma: An interactive learning tool for University and Professional Training' .

Conference Publications

O'Driscoll, K., Boyle, L., French, P., Meaney, B., and Hanlon, A. (2007) Effect of winter housing facilities on animal hygiene score, somatic cell count and mastitis incidence. 13th International Congress in Animal Hygiene, Tartu, Estonia.

Olmos, G., Hanlon, A., Horan, B., Berry, D.P., O'Connor, P., Mee, J.F and Boyle, L. (2007) Risk of lameness on Holstein-Friesian genotypes under two grazing systems. 41st Congress of the International Society for Applied Ethology, Merida, Mexico.

Olmos, G., Llamas-Moya, S., Arkins, S., Mee, J.F., O'Brien, B., Hanlon A. and Boyle, L. (2007) Effect of Milk Frequency on the peripartum acute phase reactivity of pluriparous dairy cattle. 58th Annual Meeting of the European Association of Animal Production, Dublin, Ireland.

Gazzola, P., Boyle, L., French, P., Hanlon, A., Mulligan, F. (2007) Foraging behaviour and metabolic status of dry cows on three out-wintering strategies. 41st Congress of the International Society for Applied Ethology, Merida, Mexico.

Gazzola, P., Boyle, L., French, P., Hanlon, A.J. and Mulligan, F. (2007) Plasma metabolite and mineral levels of dry cows out-wintered on. Joint Annual Meeting of the American Dairy Science Association (ADSA), Poultry Science Association (PSA), Asociación Mexicana de Producción Animal (AMPA), and the American Society of Animal Science (ASAS), San Antonio, Texas, USA, 12 – 12.

Gazzola, P, Boyle, L, French, P, Hanlon, A, Mulligan, F. (2007) Lying Duration and Hoof Health of Cows Outwintered on Forage Crops. 58th Annual Meeting of the European Association for Animal Production, Dublin, Ireland.

O'Driscoll, K., Boyle, L., French, P. and Hanlon, A. (2007) Changes in feeding and lying behaviour of dairy cows at winter accommodation. 41st Congress of the International Society for Applied Ethology, Merida, Mexico.

Dich, T., Hansen, T., Algers, A., Hanlon, A., Loor, H., Sandoe, P. (2006) Animal ethics dilemma: a computer supported learning tool. *European Society for Agricultural and Food Ethics*, Oslo, Norway, 245 – 249.

O'Driscoll, Boyle, L., O'Brien, B., Gleeson, D., Hanlon, A. (2006) Effect of milking frequency and nutritional level on grazing and lying behaviour of dairy cows. 40th Congress of the International Society for Applied Ethology, Bristol, UK, 117 – 117.

Hansen, T., Dich, T., Algers, A., Hanlon, A., Loor, H., Sandoe, P. (2006) Presentation of the computer programme 'Animal Ethics Dilemma'. European Society for Agricultural and Food Ethics, Oslo, Norway, 572 – 574.

Hanlon, A.J., Alger, A., Dich, T., Hansen, T., Loor, H. and Sandøe, P. (2006) 'Animal Ethics Dilemma': an interactive learning tool for university and professional training. Animal Welfare UFAW/BVA Quality of Life: The Heart of the Matter, London, UK.

Mr Laurence Harte

Book Chapters

Harte, L. and O'Connell, J.J. (2007) 'European Dairy Cooperative Strategies: Horizontal Integration Versus Diversity' In: Karantininis, K. and Nilsson, J. (eds). Vertical Markets and Cooperative Hierarchies: The Role of Cooperatives in the Agri-Food Industry . The Netherlands: Springer.

Peer Reviewed Journals

O'Connell, J. and Harte, L. (2006) 'REPS 3 - a small step in an economic direction?'. The Irish Journal of Agri-Environmental Research, (5):13-22.

Professor Nick Holden

Books

Ward, S., Connolly, J., Walsh, J., Dahlman, L., Holden, N.M. (2007) Climate Change - modelling carbon fluxes from Irish peatlands: towards the development of a national carbon fluxes inventory for Irish peatlands. Wexford: Environmental Protection Agency. <http://www.epa.ie>

Peer Reviewed Journals

García-Quijano, J.F., Peters, J., Cockx, L., van Wyk, G., Rosanov, A., Deckmyn, G., Ceulemans, R., Ward, S.M., Holden, N.M., Van Orshoven, J. and Muys, B. (2007) 'Carbon sequestration and environmental effects of afforestation with *Pinus radiata* D. Don in the Western Cape, South Africa'. Climate Change, 83 :323-355.

Ayalew, G., Holden, N.M., Ward, S.M. (2007) 'Microwave Dielectric Properties of Horticultural Peat Products'. Mires and Peatlands, 2 .

Connolly, J., Holden, N.M., Ward, S.M. (2007) 'Mapping peatland extent in Ireland using a rule-based methodology and digital data'. Soil Science Society of America Journal, 71 :492-499.

Moges, A., Holden, N.M. (2007) 'Farmer perception of soil erosion and fertility loss in a food insecure catchment in southern Ethiopia'. Land Degradation and Development, 18 :543-555.

Carroll, J.P. and Holden, N.M. (2006) 'Modeling the Relationship between Patch Sprayer Performance and Weed Distribution. 1: Model Testing'. Transactions of the American Society of Agricultural Engineers .

Casey, J.W. and Holden, N.M. (2006) 'GHG emissions from mid-season lamb production in Ireland'. Irish Journal of Agricultural and Food Research .

Zintl A., Mulcahy G., De Waal T., De Waele V., Byrne C., Clyne M., Holden N. M. and Fanning S. (2006) 'An Irish perspective on Cryptosporidium (part II)'. IRISH VETERINARY JOURNAL, 59 :495-500.

Other Journals

McNulty, P. and Holden, N.M. (2007) 'Biosystems Engineering Research Review'. Biosystems Engineering Research Review, 12 .

McNulty, P. and Holden, N.M. (2006) 'Biosystems Engineering Research Review 11. Biosystems Engineering Department, UCD, May 2006' Biosystems Engineering Research Review .

Conference Publications

Berzano, M., Murphy, T., Holden, N.M. (2007) Towards developing an environmental risk assessment model for cryptosporidiosis.s 2nd International Giardia and Cryptosporidium Conference, Morelia-Michoacán, México.

Curran, T.P., Blaney, C., Cummins, E.J., Holden, N.M., McDonnell, K.P. (2007) The Biosystems Engineering Design Challenge at University College Dublin. American Society of Agricultural Engineers, Annual International Meeting, Minneapolis, Minnesota.

Connolly, J., Roulet, N., Seaquist, J., Holden, N. M., Lafleur, P., Humphreys, E., Heumann, B., Ward, S. (2007) Using satellite and flux tower data to derive the light use efficiency for two Canadian peatland. Carbon in Peatlands, Wageningen.

Kramers, G., Richards, K. and Holden, N.M. (2007) Characterisation of unsaturated infiltration mechanisms in Irish grassland soils. British Society of Soil Science Young Scientists Meeting.

Kramers, G., Brennan, F., Richards, K., and Holden, N.M. (2006) Preferential flow in Irish grassland soils: occurrence and extent. EPA Soils Workshop, Tullamore.

Kramers, G., Richards, K., Holden, N.M. (2006) Saturated and unsaturated infiltration into an Irish grassland soil: preliminary evidence of preferential flow. Agricultural Research Forum, 15-16 March, Tullamore.

Tunney, H., Kiely, G., Jordan, P., Moles, R., Daly, K., Morgan, G., Kurz, I., Ryan, D., Jennings, E., Irvine, K., Holden, N., Doody, D., Bourke, D., Byrne, P., O'Reilly, C., Carton, O. and Fay, D. (2006) Phosphorus Loss from Agriculture to Water in Ireland. World Congress of Soil Science, Philadelphia, Pennsylvania.

Ayalew, G., Holden, N.M. & Ward, S.M. (2006) Comparison of Simple Shape Measures and Fourier Descriptors as applied to the Identification of High-injury-risk Glass Contaminants in Horticultural Peat. American Society of Agricultural Engineers Annual International Meeting, Portland, Oregon.

Casey, J.W. & Holden, N.M. (2006) Greenhouse gas emissions from Irish grassland livestock production systems. 21st Meeting of the European Grassland Federation, 3-6 April, Badajoz, Spain. Grassland Science in Europe.

Mrs Lynne Hughes

Book Chapters

Hughes, L. (2007) 'Breathing Systems and Ancillary Equipment' In: Chris Seymour and Tanya Duke-Novakovski (eds). BSAVA Manual of Canine and Feline Anaesthesia and Analgesia . Gloucester UK: British Small Animal Veterinary Association.

Peer Reviewed Journals

Sibanda, S., Hughes, J.M.L., Pawson, P.E., Kelly, G. & Bellenger, C.R. (2006) 'The effects of preoperative extradural bupivacaine and morphine on the stress response in dogs undergoing femoro-tibial joint surgery'. *Veterinary Anaesthesia and Analgesia*, 33 (4):246-247.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&list_uids=16764590&cmd=Retrieve&indexed=google

Dr Jane Irwin

Peer Reviewed Journals

Sekiya, M., Mulcahy, G., Irwin, J.A., Stack, C.M., Donnelly, S.M., Xu, W., Collins, P., Dalton, J.P. (2006) 'Biochemical characterisation of the recombinant peroxiredoxin (FhePrx) of the liver fluke, *Fasciola hepatica*'. *FEBS LETTERS*, 580 (21):5016-5022.

Dr Jean-Christophe Jacquier

Book Chapters

Mounsey, J.S., O'Kennedy, B.T., Kelly P.M. and Jacquier, J.C. (2006) 'Microgel evaluation in model food systems' In: Cambridge: RSC.

Peer Reviewed Journals

Jacquier, J.C., Kar, A., Lyng, J.G., Morgan, D.J. and McKenna, B.M. (2006) 'Influence of granule size On the flow behaviour of heated rice starch dispersions in excess water'. *Carbohydrate Polymers*, 66 (4):425-434.

Conference Publications

Marete, E.N., Collier, J., Jacquier, J.C., O'Riordan, D. (2007) The influence of freezing and drying on the total phenolic concentration of feverfew (*Tanacetum parthenium*). IFT 2007, Chicago, USA.

Harbourne, N., Collier, J., Jacquier, J.C. and O'Riordan, D. (2007) Optimization of the extraction and processing conditions of chamomile (*Matricaria chamomilla* L.) for incorporation into anti-inflammatory beverages. IFT 2007, Chicago, USA.

Kepeller, S., Ellis, A. and Jacquier, J.C. (2007) Carrageenan microgels as a controlled release encapsulation system for nutraceuticals. IFT 2007, Chicago, USA.

Marete, E.N., Collier, J., Jacquier, J.C., O'Riordan, D. (2006) Effects of drying parameters on the parthenolide concentration of feverfew (*Tanacetum parthenium*). 36th Annual Research Conference on Food, Nutrition and Consumer Sciences, Cork.

Keppeler, S.D. and Jacquier, J.C. (2006) Swelling behaviour of crosslinked carrageenan beads for food delivery

Systems. 36th Annual Research Conference on Food, Nutrition and Consumer Sciences, Cork.

Ellis A. and Jacquier, J.C. (2006) Flow Behaviour of agarose microgels for nutraceuticals encapsulation. 36th Annual Research Conference on Food, Nutrition and Consumer Sciences, Cork.

Ellis A. and Jacquier, J.C. (2006) Characterization of agarose microgels for nutraceuticals encapsulation. 13th IUFoST World Congress 'Food is Life', Nantes, France.

Keppeler, S.D. and Jacquier, J.C. (2006) Crosslinked carrageenan beads for controlled release food delivery systems. 13th IUFoST World Congress 'Food is Life', Nantes, France.

Jacquier, J.C. (2006) Putting the function into functional foods. Nutraceuticals: Actions and Applications, Cork.

Harbourne, N., Collier, J., Jacquier, J.C., Navarro, C. and O'Riordan, D. (2006) Determination of the kinetic properties of total phenols and turbidity in aqueous chamomile (*Matricaria chamomilla* L.) extracts. 36th Annual Research Conference on Food, Nutrition and Consumer Sciences, Cork.

Professor Boyd Jones

Peer Reviewed Journals

McCarthy, G., O'Donovan, J., Jones, B., McAllister, H., Seed, M., Mooney, C. (2007) 'Randomised double-blind, positive-controlled trial to assess the efficacy of glucosamine/chondroitin sulfate for the treatment of dogs with osteoarthritis'. *The Veterinary Journal*, 174 (1):544-61.

McCarthy, G.M., Donovan, J., Jones, B.R., McAllister, H., Seed, M., Mooney, C. (2007) 'Randomised double blind, positive-controlled trial to assess the efficacy of glucosamine/chondroitin sulfate for the treatment of dogs with osteoarthritis'. *Veterinary Journal*, 174 (1):54-61.

Allen, H.S., Steiner, J., Broussard, J., Mansfield, C., Williams, D.A., Jones, B.R. (2006) 'Serum and urine concentrations of trypsinogen activation peptide as markers for acute pancreatitis in cats'. *Canadian Journal of Veterinary Research*, 70 (4):313-316.

Allen, M., Gallagher, B., Jones, B.R. (2006) 'Domestic violence and the abuse of pets: researching the link and its implications in Ireland'. *Practice*, 18 (3):167-181.

Dr David Kenny

Peer Reviewed Journals

Hickey, J.M., Keane, M.G., Kenny, D.A., Cromie, A.R., Amer, P.R., Veerkamp, R.F. (2007) 'Heterogeneity of genetic parameters for calving difficulty in Holstein heifers in Ireland'. *Journal of Dairy Science*, 90 (8):3900-3908.

Wathes, D.C., Fenwick, M., Cheng, Z., Bourne, N., Llewellyn, S., Morris, D.G., Kenny, D., Murphy, J., Fitzpatrick, R. (2007) 'Influence of negative energy balance on cyclicity and fertility in the high producing dairy cow'. *Theriogenology*, 68 :S232-S241.

Llewellyn, S., Fitzpatrick, R., Kenny, D.A., Murphy, J.J., Scaramuzzi, R.J., Wathes, D.C. (2007) 'Effect of negative energy balance on the insulin-like growth factor system in pre-recruitment ovarian follicles of post partum dairy cows'. *Reproduction*, 133 (3):627-639.

Hickey, J.M., M.G. Keane, D.A. Kenny, A.R. Cromie and R.F. Veerkamp (2007) 'Genetic parameters for EUROP

carcass traits within different groups of cattle in Ireland'. *Journal of Animal Science*, 85 :314-321.

Conference Publications

Waters, S.M., Childs, S. and Kenny, D. (2007) Effect of dietary polyunsaturated fatty acids on the expression of genes involved in prostaglandin biosynthesis in the bovine uterus. 58th Annual Meeting of the European Association for Animal Production, 211.

Clarke, A.M., Drennan, M.J., Kenny, D.A. and Berry, D.P. (2007) Effect of sire genetic for beef production on the performance of progeny. *Proceedings European Association of Animal Production*, 76.

Minchin, W., Donovan, M., O'Kenny D.A., Shalloo, L., and Buckley, F. (2007) Forage and concentrate based finishing strategies for cull dairy cows. *58th annual meeting of the European Association for Animal production*, 109.

Waters, S.M., Childs, S., Sreenan, J.M., Hennessy, A.A., Stanton, C. and Kenny, D.A. (2007) Effect of dietary polyunsaturated fatty acids on the expression of genes involved in prostaglandin biosynthesis in the bovine uterus. *American Society of Animal Science*.

Waters, S.M., Kelly, J.P., O'Boyle P., Moloney A.P., Kenny, D.A. (2007) Effect of level and duration of dietary n-3 polyunsaturated fatty acid supplementation on delta-9 desaturase gene expression in muscle of beef cattle. *Journal of Animal Science*, 370.

Minchin, W., Donovan, M., O'Kenny D., Buckley, F. and Shalloo, L. (2007) An economic evaluation of four fattening strategies for cull dairy cows. *Irish Farm Management Association 16th Congress*, 481.

Grace, S.E., Moloney, A.P and Kenny, D.A. (2007) Accumulation of biohydrogenation intermediates during in vitro ruminal fermentation of camelina oil-based rations. *Proceedings of the British Society of Animal Science*, 26.

Minchin, W., Donovan, M. O', Kenny, D.A., Monahan, F.J., Shalloo, L., and Buckley, F. (2007) An evaluation of finishing strategies based on forage and concentrate for cull dairy cows. *British Society of Animal Science*, 123.

Waters, S.M., Childs, S., Sreenan, J.M., Hennessy, A.A., Stanton, C. and Kenny, D.A. (2007) Effect of dietary polyunsaturated fatty acids on uterine endometrial gene expression of enzymes involved in prostaglandin biosynthesis in cattle. *British Society of Animal Science*, 52.

Waters, S.M., S. Childs, J.M. Sreenan, A.A. Hennessy, C. Stanton, and D.A. Kenny (2007) Effect of dietary polyunsaturated fatty acids on the expression of genes involved in prostaglandin biosynthesis in the bovine uterus. *Journal of Animal Science*, 367.

Hickey, J.M., M.G. Keane, D.A. Kenny, A.R. Cromie, P.R. Amer and R.F. Veerkamp. (2007) Heterogeneity of genetic parameters for calving difficulty in Holstein heifers in Ireland. *Proceedings European Association of Animal Production August 2007*, 55.

Clarke, A.M., Drennan, M.J., Kenny, D.A. and Berry, D.P. (2007) Effect of sire genotype for the beef production sub index and carcass weight on progeny performance. *Proceedings of the Irish Agricultural Research Forum*, 73.

Minchin, W., Donovan, M., Buckley, F., Kenny, D., and Shalloo, L. (2007) An evaluation of the most economic fattening strategies for cull dairy cows. *Agricultural Research Forum*, 87.

Minchin, W., Donovan, M.O', Kenny, D.A., Monahan, F.J., Shalloo, L. and Buckley, F. (2007) Finishing strategies for cull dairy cows. *Agricultural Research Forum*, 47.

Foley, P.A., Callan, J.J. Kenny, D.A., Johnson, K.A. and O'Mara, F.P. (2007) The effect level of dietary malic acid

supplementation on methane production in beef cattle. Proceedings of Agricultural Research Forum, 112.

Clarke, A.M., Drennan, M.J., Kenny, D.A., Cromie, A.R. and Berry, D.P. (2007) Effect of contrasting genetic merit for beef production on calving performance in beef herds. Proceedings of the Irish Agricultural Research Forum, 82.

Grace, S.E., Moloney, A.P., Kenny, D.A., and Monahan, F.J. (2007) Accumulation of intermediates during in vitro ruminal fermentation of polyunsaturated plant oils and oilseeds. Proceedings of the Agricultural Research Forum, 10.

Waters, S.M., Childs, S., Sreenan, J.M., Hennessy, A.A., Stanton, C., Kenny, D.A. (2007) Effect of dietary polyunsaturated fatty acids on uterine endometrial gene expression of proteins involved in prostaglandin biosynthesis in cattle. Proceedings from the Irish Agricultural Research Forum, 27.

Waters, S.M., Kelly, J.P., O'Boyle, P., Moloney, A.P., Kenny, D.A. (2007) Effect of dietary n-3 polyunsaturated fatty acid supplementation on delta-9 desaturase relative gene expression in muscle of beef cattle. Proceedings from the Irish Agricultural Research Forum, 88.

Spellman, S.A., Waters, S.M., Kenny, D.A., Hynes, A.C. (2007) Development of a bovine intermuscular adipocyte cell line. Proceedings from the Irish Agricultural Research Forum, 32.

Childs, S., Sreenan, J.M., Hennessy, A.A., Stanton, C., Diskin, M.G. and Kenny, D.A. (2007) Effect of dietary n-3 polyunsaturated fatty acid supplementation on hormone and metabolite concentrations and corpus luteum size in beef heifers. American Society of Animal Science.

Waters, S.M., Kelly, J.P., O'Boyle, P., Moloney, A.P., and Kenny, D.A. (2007) Effect of level and duration of dietary n-3 polyunsaturated fatty acid supplementation on delta-9 desaturase gene expression in muscle of beef cattle. American Society of Animal Science.

Foley, P., Callan, J.J., Kenny, D., Boland, T. and O'Mara, F. (2007) Effect of level of dietary malic acid supplementation on rumen methanogenesis and fermentation in beef cattle. American Society of Animal Science.

Kenny, D.A. and Moloney, A.P. (2007) Fatty acid composition of beef - effects of production system and strategic supplementation. European Association of Animal Production.

Minchin, W., O'Donovan, M., Kenny, D.A., Buckley, F., Shalloo, L., Monahan, F.J. (2007) An evaluation of finishing strategies based on forage and concentrate for cull dairy cows. British Society of Animal Science Annual Conference.

Grace, S.E., Moloney, A.P. and Kenny, D.A. (2007) Accumulation of biohydrogenation intermediates during in vitro ruminal fermentation of camelina oil-based rations. British Society of Animal Science Annual Conference.

Childs, S., Sreenan, J.M., Hennessy, A.A., Stanton, C., and Kenny, D.A., (2007) Effect of level of dietary supplementation on concentrations of eicosapentaenoic acid (EPA) and docosahexaenoic acid (DHA) in selected tissues in cattle. American Society of Animal Science,

Kenny, D.A., Kelly, J.P., Monahan, F.J. and Moloney, A.P. (2007) Effect of dietary fish and soyoil supplementation on muscle fatty acid concentrations and oxidative lipid stability in beef cattle. American Society of Animal Science.

Campion, B., Keane, M.G., Kenny, D.A. and Berry, D.P. (2007) Effect of breed on growth rate and body measurements in young steers. European Association of Animal Production.

Childs, S., Sreenan, J.M., Earley, B., Twigge, J. and Kenny, D.A. (2006) Omega-3 Fatty Acid Intake and Immune Response Indicators in Cattle. Proceedings of Euro Fed Lipid Congress, Madrid, 259.

Dr Finola Leonard

Peer Reviewed Journals

Abbott, Y., Leonard, N., Markey, B., Rossney, A., Dunne, J. (2007) 'Persistence of MRSA infection'. *The Veterinary Record*, 160 (24):851-852.

Boughton, C., Egan, J., Kelly, G., Markey, B., Leonard, N. (2007) 'Rapid infection of pigs following exposure to environments contaminated with different levels of *Salmonella typhimurium*'. *Foodborne Pathogens and Disease*, 4 (11):33-40.

Boughton, C., Egan, J., Kelly, G., Markey, B., Leonard, N. (2007) 'Quantitative examination of *Salmonella* spp. in the lairage environment of a pig abattoir'. *Foodborne Pathogens and Disease*, 4 (11):26-32.

Leonard, F.C. and Markey, B.M. (2007) 'Meticillin resistant *Staphylococcus aureus* in animals: A review'. *The Veterinary Journal* .

Casey, P.G., Gardiner, G.E., Casey, G., Bradshaw, B., Lawlor, P.G., Lynch, P.B., Leonard, F.C., Stanton, C., Ross, R.P., Fitzgerald, G.F., Hill, C. (2007) 'A five-strain probiotic combination reduces pathogen shedding and alleviates disease signs in pigs challenged with *Salmonella enterica* Serovar Typhimurium'. *Applied and Environmental Microbiology*, 73 (6):1858-1863.

Leonard, F. (2006) 'MRSA in animals - an update'. *Irish Veterinary Journal*, :90-94.

Jordan, E., Egan, J., Dullea, C., Ward, J., McGillicuddy, K., Murray, G., Murphy, A., Bradshaw, B., Leonard, N., Rafter, P., McDowell, S. (2006) 'Salmonella surveillance in raw and cooked meat and meat products in the Republic of Ireland from 2002 to 2004'. *International Journal of Food Microbiology*, 112 (11):66-70.

Moodley, A., Stegger, M., Bagcigil, A.F., Baptiste, K.E., Loeffler, A., Lloyd, D.H., Williams, N.J., Leonard, N., Abbott, Y., Skov, R., Guardabassi, L. (2006) 'Spa typing of methicillin-resistant *Staphylococcus aureus* isolated from domestic animals and veterinary staff in the UK and Ireland'. *Journal of Antimicrobial Chemotherapy*, 58 :1118-1123.

Conference Publications

Mannion, C., Egan, Lynch, P.B. and Leonard, F.C. (2007) An investigation into the efficacy of washing trucks following transportation of pigs - a *Salmonella* perspective. Safepork 2007, 7th international symposium on the epidemiology and control of foodborne pathogens in pork, Verona, Italy, 253 – 256.

Duggan, S.J., Prendergast, D.M., Leonard, N., Mannion, C., Butler, F., Fanning, S. and Duffy, G. (2007) Tracking of *Salmonella* positive pigs from farm to fork in the Republic of Ireland. Safepork 2007, 7th international symposium on the epidemiology and control of foodborne pathogens in pork, Verona, Italy, 91 – 94.

Professor Patrick Lonergan

Book Chapters

Lonergan, P. (2007) 'State-of-the-art embryo technologies in ruminants' In: *Reproduction in Domestic Animals* . London: Society for Reproduction and Fertility.

Peer Reviewed Journals

Tesfaye, D., Nganvongpanit, K., Besenfelder, U., Lonergan, P., Schellander, K. (2007) 'Suppression of connexin 43 and E-cadherin transcripts in in vitro derived bovine embryos following culture in vitro or in vivo in the homologous bovine oviduct'. *Molecular Reproduction and Development*, 74 (8):978-988.

Mossa F, Duffy P, Naitana S, Lonergan P, Evans ACO (2007) 'Association between numbers of ovarian follicles in the first follicle wave and superovulatory response in ewes'. *Animal Reproduction Science*, 100 (3-4):391-396.

Lonergan, P., Woods, A., Fair, T., Carter, F., Rizos, D., Ward, F., Quinn, K., Evans, A.C.O. (2007) 'Effect of embryo source and recipient progesterone environment on embryo development in cattle'. *Reproduction, Fertility and Development*, 19 (7):861-868.

Smith, N.A., Lonergan, P., Duffy, P., Crosby, T.F., Quinn, P., McAuliffe, F., Evans, A.C.O. (2007) 'Undernutrition during the periconceptional period in ewes affects the blood pressure and weight of their neonatal lambs'. *Reproduction Fertility and Development*, 19 (1):194-195.

Rizos, D., Lonergan, P., Rath, D., De la Fuente, J., Wade, M., Parrilla-Riera, I., Gutierrez-Adan, A. (2007) 'Differences in transcript abundance between male and female bovine blastocysts produced in vitro using sexed semen'. *Reproduction Fertility and Development*, 19 (1):255-255.

Doyle, J; Ellis, SA; Lonergan, P; Fair, T; (2007) 'Classical and non-classical major histocompatibility complex class I gene expression in in vitro-derived bovine embryos'. *Reproduction Fertility and Development*, 19 (1):250-250.

Carter, F; Fair, T; Park, S; Wade, M; Evans, ACO; Lonergan, P; (2007) 'Gene expression profiling of immature and in vitro-matured bovine oocytes using affymetrix genechip technology'. *Reproduction Fertility and Development*, 19 (1):248-248.

Ireland, J.J., Ward, F., Jimenez-Krassel, F., Ireland, J.L.H., Smith, G.W., Lonergan, P., Evans, A.C.O. (2007) 'Follicle numbers are highly repeatable within animal but inversely correlated with FSH concentrations and the proportion of good quality embryos after superstimulation in cattle'. *Human Reproduction*, 22 (6):1687-1695.

Rizos, D., Pintado, B., de la Fuente, J., Lonergan, P., Gutierrez-Adan, A. (2007) 'Development and pattern of mRNA relative abundance of bovine embryos cultured in the isolated mouse oviduct in organ culture'. *Molecular Reproduction and Development*, 74 (6):716-723.

O'Meara, C., Hanrahan, J.P., Donovan, A., Duffy, P., Evans, A.C.O., Lonergan, P. (2007) 'Resuspending ram spermatozoa in seminal plasma after cryopreservation does not improve pregnancy rate in cervically inseminated ewes'. *Theriogenology*, 67 (7):1262-1268.

Sweeney, T., Fox, J., Robertson, L., Kelly, G., Duffy, P., Lonergan, P., O'Doherty, J., Roche, J.F., Evans, N.P. (2007) 'Postnatal exposure to octylphenol decreases semen quality in the adult ram'. *Theriogenology*, 67 (5):1068-1075.

Fair, S; Hanrahan, JP; Donovan, A; Duffy, P; O' Meara, CM; Lonergan, P; Evans, ACO; (2007) 'Hormonal relationships during the periovulatory period among ewe breeds known to differ in fertility after cervical artificial insemination with frozen thawed semen'. *Animal Reproduction Science*, 97 (3-4):284-294.

Fair, S., Hanrahan, J.P., Donovan, A., Duffy, P., O' Meara, C.M., Lonergan, P., Evans, A.C.O. (2007) 'Hormonal relationships during the periovulatory period among ewe breeds known to differ in fertility after cervical artificial insemination with frozen thawed semen'. *Animal Reproduction Science*, 97 (3-4):284-294.

Patel, O.V., Bettgowda, A., Ireland, J.J., Coussens, P.M., Lonergan, P., Smith, G.W. (2007) 'Functional genomics studies of oocyte competence: evidence that reduced transcript abundance for follistatin is associated with poor developmental competence of bovine oocytes'. *Reproduction*, 133 (1):95-106.

Dr Ingrid Maria Lorenz

Peer Reviewed Journals

Lorenz, I. et al. (2007) 'Untersuchungen zur Ursache des generalisierten Haarausfalls bei jungen Kälbern. (Studies on the aetiology of generalized alopecia in young calves.)'. Deutsche Tierärztliche Wochenschrift.

Mohr, A. I., et al. (2007) 'Influence of oral application of mycophenolic acid on the clinical health status of sheep'. Journal of Veterinary Medicine-Series A.

Lorenz, I., and Vogt, S. (2006) 'Investigations on the association of D-lactate blood concentrations with the outcome of therapy of acidosis, and with posture and demeanour in young calves with diarrhoea'. Journal of Veterinary Medicine-Series A.

Other Journals

Rademacher, G., and Lorenz, I. (2007) 'Neugeborenenendurchfall des Kalbes. Teil 1: Energieversorgung und orale Rehydratation. (Neonatal diarrhoea in calves. Part 1: Feeding and oral rehydration)' Veterinaerspiegel .

Ms Bridget Lynch

Peer Reviewed Journals

Lynch, M.B., T. Sweeney, J.J. Callan and J.V. O'Doherty. (2007) 'Effects of increasing the intake of dietary β-glucans by exchanging wheat for barley on nutrient digestibility, nitrogen excretion, intestinal microflora, volatile fatty acid concentration and manure ammonia emissions in finishing pigs'. Animal, 6 (1):812-819.

Lynch, M.B., J.J. Callan and J.V. O'Doherty. (2007) 'The interaction between enzyme supplementation and lactose level on the performance of weanling pigs fed barley based diets'. Livestock Science, 108 (1-3):258-261.

Lynch, M.B., T. Sweeney, J.J. Callan and J.V. O'Doherty. (2007) 'The effect of dietary crude protein concentration and inulin supplementation on nitrogen excretion and intestinal microflora from finisher pigs'. Livestock Science, 109 (1-3):204-207.

Lynch, M.B., T. Sweeney, J.J. Callan and J.V. O'Doherty. (2007) 'The effect of dietary barley level on volatile fatty acid concentration and manure ammonia emissions in finishing pigs'. Livestock Science, 109 (1-3):236-239.

Dr James Lyng

Book Chapters

Lyng, J.G., McKenna, B.M. (2007) 'Ohmic pasteurisation of meat and meat products' In: Kutz, M (eds). Food Machinery Design Handbook: Farming, Processing and Packaging. New York: William Andrew Inc.

Peer Reviewed Journals

Marra, F., Lyng, J.G., Romano, V., McKenna, B.M. (2007) 'Radio Frequency heating of foodstuff: solution and validation of a mathematical model'. Journal of Food Engineering, 79 (3):998-1006.

Byrne, B., Dunne, G., Lyng, J., Bolton, D.J. (2007) 'The development of a 'clean sheep policy' in compliance with the new Hygiene Regulation (EC) 853/2004 (Hygiene 2)'. *Food Microbiology*, 24 (3):301-304.

Lyng, J.G., Cronin, D.A., Brunton, N.P., Wenqu, Li, Xiaohong, Gu (2007) 'An examination of factors affecting radio frequency heating of an encased meat emulsion'. *Meat Science*, 75 (3):470-479.

Zhang, L., Lyng, J.G., Brunton, N.P. (2007) 'The effect of fat, water and salt on the thermal and dielectric properties of meat batter and its temperature following microwave or radio frequency heating'. *Journal of Food Engineering*, 80 (1):142-151.

Jacquier, JC, Kar, A, Lyng, JG, Morgan, DJ, McKenna, BM (2006) 'Influence of granule size on the flow behaviour of heated rice starch dispersions in excess water'. *Carbohydrate Research*, 66 (4):425-434.

Brunton, N.P., Lyng, J.G., Zhang, L. and Jacquier J.C. (2006) 'The use of dielectric properties and other physical analyses for assessing protein denaturation in beef biceps femoris muscle during cooking from 5 to 85°C'. *Meat Science*, 72 (2):236-244.

Conference Publications

Walkling-Ribeiro, M., Noci, F. Cronin, D.A., Morgan D.J. and Lyng, J.G. (2007) Inactivation of *Listeria innocua* in UHT milk by thermosonication and PEF. European Congress of Chemical Engineering - 6, Copenhagen, Denmark.

Noci, F., Walkling-Ribeiro, M., Riener, J., Cronin, D.A., Lyng, J.G. and Morgan, D.J. (2007) The effect of ultraviolet irradiation and pulsed electric fields (PEF) for hurdle preservation of freshly squeezed apple juice. IFT Annual Meeting, Chicago, Illinois.

Riener, J., Noci, F., Cronin, D.A., Morgan D.J. and Lyng J.G. (2007) Characterisation of Volatile Compounds Generated in Milk by High Intensity Ultrasound. EUROanalysis XIV conference, Antwerp, Belgium.

Dr David MacHugh

Peer Reviewed Journals

Edwards, C.J., Baird, J.F., MacHugh, D.E. (2007) 'Taurine and zebu admixture in Near Eastern cattle: a comparison of mitochondrial, autosomal and Y-chromosomal data'. *Animal Genetics*, 38 (5):520-524.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=17725685

Fitzgerald, D.C., Meade, K.G., McEvoy, A.N., Lillis, L., Murphy, E.P., MacHugh, D.E., Baird, A.W. (2007) 'Tumour necrosis factor-alpha (TNF-alpha) increases nuclear factor kappaB (NFkappaB) activity in and interleukin-8 (IL-8) release from bovine mammary epithelial cells'. *Vet Immunol Immunopathol*, 116 (1-2):59-68.

Murphy, A.M., MacHugh, D.E., Park, S.D.E., Scraggs, E., Haley, C.S., Lynn, D.J., Boland, M.P., Doherty, M.L. (2007) 'Linkage mapping of the locus for inherited ovine arthrogyrosis (IOA) to sheep Chromosome 5'. *Mammalian Genome*, 18 (1):43-52.

Dr Bryan Markey

Peer Reviewed Journals

Markey, B., Wan, C., Hanger, J., Phillips, C. and Timms, P. (2007) 'Use of quantitative real-time PCR to monitor the shedding of chlamydiae in the koala (*Phascolarctos cinereus*)'. *Veterinary Microbiology*, 120 :334-342.

Sheehan, M., Cassidy, J.P., Brady, J., Ball, H., Doherty, M.L., Quinn, P.J., Nicholas, R.A.J. and Markey, B.K. (2007) 'An aetio-pathological study of chronic bronchopneumonia in lambs in Ireland'. *The Veterinary Journal*, 173 :630-637.

Breslin, P., McElroy, M., Bassett, H. and Markey, B. (2006) 'Vacuolar lesion profile of BSE in the Republic of Ireland'. *Veterinary Record*, 159 :889-890.

Conference Publications

Monahan, A., Sekiya, M., Brady, C., Markey, B., Mulcahy, G. and Nally, J. (2007) Proteomic analysis of sheep-specific *Toxoplasma gondii* tachyzoite antigens. Proceedings of the Joint Meeting of the British Society for Parasitology and Irish Society for Parasitology, Belfast.

Marques, P.X., Williams, E., O'Donovan, J., Brady, C., Sammin, D., Bassett, H., Markey, B. and Nally, J. (2007) Characterisation of the proteome of *Chlamydophila abortus* and antigens reactive with convalescent sheep serum. *Microbial Pathogenesis and Host Response*, Cold Spring Harbor.

Leggett B., Abbott Y., Markey B. and Leonard F.C. (2006) Toxigenic *Corynebacterium diphtheriae* isolated from an equine wound. First Meeting of DipNet and Ninth International Meeting of the European Laboratory Working Group on Diphtheria.

Markey, B. (2006) Chlamydial infections of animals and ovine abortion. Proceedings of the Final Conference of COST 854, Protozoal reproduction losses in farm animals, Liege.

Leggett, B., Abbott, Y., Markey, B. and Leonard, F.C. (2006) Toxigenic *Corynebacterium diphtheriae* isolated from an equine wound. First meeting of DipNet and Ninth International Meeting of the European Laboratory Working Group on Diphtheriae, Athens.

Mrs Hester McAllister

Peer Reviewed Journals

McCarthy, G., O'Donovan, J., Jones, B., McAllister, H., Seed, M. & Mooney, C. (2006) 'Randomised double-blind, positive-controlled trial to assess the efficacy of glucosamine/chondroitin sulfate for the treatment of dogs with osteoarthritis'. *The Veterinary Journal*.

Dr Grainne McCarthy

Book Chapters

McCarthy, G. (2006) 'The Cyanotic Cat' In: Jaquie Rand (eds). *Problem-based Feline Medicine*. Edinburgh: Elsevier Saunders.

Peer Reviewed Journals

McCarthy, G. (2006) 'Book Review - Ear, Nose and Tracheobronchial Diseases in Dogs and Cats by Anjop Venker-van Haagen. Schlutersche Verlagsgesellschaft'. *Irish Veterinary Journal*, 59 (5).

Dr Kevin Paul McDonnell

Peer Reviewed Journals

Barry, B., Gonzales Barron, U, McDonnell, K., Corkery, G., Butler, F. and Ward, S. (2007) 'Using muzzle pattern recognition as a biometric approach for cattle identification'. Transactions of the ASABE .

Devlin, G., McDonnell, K. and Ward, S. (2007) 'Development of a Spatial Decision Support System (SDSS) for Route Costing Calculations within the Irish road network'. International Journal of Forest Engineering .

Gonzales Barron, U., Corkery, G., Barry, B., Butler, F., McDonnell, K. and Ward, S. (2007) 'Assessment of Retinal Recognition Technology as a Biometric Method for Sheep Identification'. Computers and Electronics in Agriculture .

Corkery, G., Gonzales Barron, U., Barry, B., McDonnell, K., Butler, F. and Ward, S. (2006) 'A preliminary investigation on face recognition as a biometric identifier in sheep'. Transactions of the ASABE .

Ms Kevina McGill

Other Journals

Whyte, P., McGill, K., Kelly, L., Acke, E., Collins, J.D., Fanning, S., Lawlor, A., Jones, B., Madden, R., Moran, L., Scates, P., Carroll, C., O'Leary, A., McNamara, E., Moore, J., Cormican, M. (2006) 'A comparative study of thermophilic *Campylobacter* isolates of clinical, food and pet origin'.

Dr Fernando Mendoza

Peer Reviewed Journals

Mendoza, F., Verboven, P., Mebatsion, H.K., Kerckhofs, G., Wevers, M., and Nicolai, B. (2007) 'Three-dimensional pore space quantification of apple tissue using X-ray computed microtomography'. *Planta*, 226 (3):559-570. <http://www.springerlink.com/content/w4u612u5v077/?p=aff56cebb61d499e81aa7cd0e38ae2c3&pi=3>

Viklund, G., Mendoza, F., Sjöholm, and Skog, K. (2007) 'An experimental set-up for studying acrylamide formation in potato crisps'. *Food Science and Technology*, 40 (6):1066-1071. <http://www.sciencedirect.com/science/journal/00236438>

Santis, N., Mendoza, F., Moyano P., Pedreschi, F., and Dejmek, P. (2007) 'Soaking in a NaCl solution produce paler potato chips'. *Food Science and Technology*, 40 (2):307-312. <http://www.sciencedirect.com/science/journal/00236438>

Rocculi P., Gómez, F., Mendoza, F., Wadsö, L., Romani, S., Dalla Rosa, M., and Sjöholm, I. (2007) 'Effects of the application of anti-browning substances on the metabolic activity of fresh-cut potatoes'. *Postharvest Biology and Technology*, 43 (1):151-157. <http://www.sciencedirect.com/science/journal/09255214>

Mendoza, F., Dejmek, P., and Aguilera, J. M. (2006) 'Calibrated colour measurements of agricultural foods using image analysis'. *Postharvest Biology and Technology*, 41 (3):285-295. <http://www.sciencedirect.com/science/journal/09255214>

Dr Frank Monahan

Peer Reviewed Journals

Harrison, S.M., Zazzo, A., Bahar, B., Monahan, F.J., Moloney, A.P., Scrimgeour, C.M. Schmidt, O. (2007) 'Using hooves for high-resolution isotopic reconstruction of bovine dietary history'. *Rapid Communications in Mass Spectrometry*, 21 (4):479-486.

Noci, F., Monahan, F.J., Scollan, N.D. and Moloney, A.P. (2007) 'The fatty acid composition of muscle and adipose tissue of steers offered unwilted or wilted grass silage supplemented with sunflower oil and fish oil'. *British Journal of Nutrition*, 97 :502-513.

Noci, F., French, P., Monahan, F.J. and Moloney, A.P. (2007) 'Fatty acid composition of muscle fat and subcutaneous adipose tissue of grazing heifers supplemented with plant oil-enriched concentrates'. *Journal of Animal Science*, 85 :1062-1073.

Camin, F., Bontempo, L., Heinrich, K., Horacek, M., Kelly, S.D., Schlicht, C., Thomas, F., Monahan, F.J., Hoogewerff, J. and Rossmann, A. (2007) 'Multi-element (H,C,N,S) stable isotope characteristics of lamb meat from different European regions'. *Analytical & Bioanalytical Chemistry*. <http://www.springerlink.com/content/076n278x612726j6>

Dr Carmel Mooney

Peer Reviewed Journals

Shiel, R.E., Acke, E., Puggioni, A., Cassidy, J.P. & Mooney, C.T. (2007) 'Tertiary hypothyroidism in a dog'. *Irish Veterinary Journal*, 60 (2):88-93.

McCarthy, G., O'Donovan, J., Jones, B., McAllister, H., Seed, M. & Mooney, C. (2007) 'Randomised double-blind, positive-controlled trial to assess the efficacy of glucosamine/chondroitin sulfate for the treatment of dogs with osteoarthritis'. *The Veterinary Journal*, 174 :54-61.

Shiel, R.E., Brennan, S.F., O'Rourke, L.G., McCullough, M. & Mooney, C.T. (2007) 'Hematologic values in young pretraining healthy greyhounds'. *Veterinary Clinical Pathology*, 36 :274-277.

Shiel, R.E. & Mooney, C.T. (2007) 'Testing for hyperthyroidism in cats'. *Veterinary Clinics of North America: Small Animal Practice*, 37 :671-691.

Professor Simon John More

Peer Reviewed Journals

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

More, S.J. (2007) 'Progress in Ireland towards the eradication of bovine tuberculosis'. *Uk Vet*, 12 :60-63.

More, S.J., Clegg, T.A., McGrath, G., Collins, J.D., Corner, L.A.L. and Gormley, E. (2007) 'Does reactive badger culling control TB in cattle?'. *Veterinary Record*, 161 :208-209.

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

Other Journals

More S. J. (Ed.) (2006) 'Biennial Report, 2004-05' .

Dr Desmond J Morgan

Peer Reviewed Journals

Jacquier, J.C., Kar, A., Lyng, J.G., Morgan, D.J. and McKenna, B.M. (2006) 'Influence of granule size on the flow behaviour of heated rice starch dispersions in excess water'. *Carbohydrate Polymers*, 66 :425-434.

Conference Publications

Walkling-Ribeiro, M., Noci, F., Cronin, D., Morgan, D., Lyng, J.G. (2006) A combination of ultraviolet irradiation, mild pre-heating and pulsed electric fields for inactivation of *Staphylococcus aureus* in apple juice. 13th World Congress of Food Science & Technology, 445 – 446.

Professor Grace V T Mulcahy

Peer Reviewed Journals

Tierney JB, Matthews E, Carrington SD, Mulcahy G. (2007) 'Interaction of *Eimeria tenella* with intestinal mucin in vitro'. *Journal of Parasitology*.

Flynn, R.J., Mannion, C., Golden, O., Hacariz, O., Mulcahy, G. (2007) 'Experimental *Fasciola hepatica* infection alters responses to tests used for diagnosis of bovine tuberculosis'. *Infection and Immunity*, 75 :1373-1381.

Good, B., Hanrahan, J.P., Crowley, B.A., Mulcahy, G. (2006) 'Texel sheep are more resistant to natural nematode challenge than Suffolk sheep based on faecal egg count and nematode burden'. *Veterinary Parasitology*, 136 :317-327.

Sekiya, M., Mulcahy, G., Irwin, J.A., Stack, C.M., Donnelly, S.M., Xu, W., Collins, P. and Dalton, J.P. (2006) 'Biochemical characterisation of the recombinant peroxiredoxin (FhePrx) of the liver fluke, *Fasciola hepatica*'. *Febs Lett*, :5016-5022.

Dr Finbar John Mulligan

Peer Reviewed Journals

Mulligan, F.J., O'Grady, L., Gath, V.P., Rice, D.A., Doherty, M.L. (2007) 'Nutrition and fertility in dairy cows'. *Irish Veterinary Journal*, 60 (5):311-316.

Burke, F., Murphy, J.J., O'Donovan, M.A., O'Mara, F.P., Kavanagh, S., Mulligan, F.J. (2007) 'Comparative evaluation of alternative forages to grass silage in the diet of early lactation dairy cows'. *Journal of Dairy Science*, 90 (2):908-917.

Mulligan, F.J., O'Grady, L., Rice, D.A., Doherty, M.L. (2006) 'Milk fever and subclinical hypocalcaemia'. *Irish Veterinary Journal*, 59 (12):697-702.

Mulligan, F.G., O'Grady, L., Rice, D.A., Doherty, M.L. (2006) 'Production diseases of the transition cow: body condition score and energy balance'. *Irish Veterinary Journal*, 59 (9):505-510.

Dr Evelyn Murphy

Peer Reviewed Journals

Mix, K., Mukundan, G., Al-Mussawir, H., Abramson, S.B., Brinckerhoff, C.E. and Murphy, E. (2007) 'Transcriptional

regulation of matrix metalloproteinase gene expression by the orphan nuclear receptor NURR1 in cartilage'. *Journal of Biological Chemistry*, 282 (13):9492-9504.

Ralph, J., Zocco, D., Bresnihan, B., FitzGerald, O., McEvoy, A. and Murphy, E. (2007) 'A role for Type 1 alpha CRH receptors in mediating local changes in chronically inflamed tissue'. *American Journal of Pathology*, 170 (30):1121-1133.

Fitzgerald, D.C., Meade, K.G., McEvoy, A.N., Lillis, L., Murphy, E.P., Machugh, D.E., Baird, A.W. (2007) 'Tumour necrosis factor-alpha (TNF-alpha) increases nuclear factor kappaB (NFkappaB) activity in and interleukin-8 (IL-8) release from bovine mammary epithelial cells'. *Veterinary Immunology and Immunopathology*, 116 (1/2):59-68.

Dr Jarlath Nally

Peer Reviewed Journals

Nally, J.E., Whitelegge, J.P., Bassilian, S., Blanco, D.R. and Lovett, M.A. (2007) 'Characterization of the outer membrane proteome of *Leptospira interrogans* expressed during acute lethal infection'. *Infection and Immunity*, 75 (2):774-780.

Other Journals

Nally, J.E., Whitelegge, J.P. and Carroll, J.A. (2007) 'Proteomic strategies to elucidate pathogenic mechanisms of spirochetes'. *Proteomics Clinical Applications*, 1 (9):1185-1197.

Mr Tom Norton

Peer Reviewed Journals

Norton, T., Sun, D-W. (2006) 'Computational Fluid dynamics (CFD) - An Effective and Efficient Design and Analysis Tool for the Food Industry: A Review'. *Trends in Food Science & Technology*, 17 (11):600-620.

Dr Peter O'Brien

Book Chapters

O'Brien, P.J. and Haskins, J.R. (2006) 'In vitro cytotoxicity assessment' In: Taylor, D.L., Haskins, J.R., and Giuliano, K.A (eds). *High Content Screening: A Powerful Approach to Systems Cell Biology and Drug Discovery*. United States: Humana Press.

Peer Reviewed Journals

O'Brien, P.J., et al. (2006) 'High concordance of drug-induced human hepatotoxicity with in vitro cytotoxicity measured in a novel cell-based model using high content screening'. *Archives of Toxicology*, 80 (9):580-604.

Pruimboom-Brees, I. et al. (2006) 'A critical role for PPAR alpha nuclear receptors in the development of cardiomyocyte degeneration and necrosis'. *American Journal of Pathology*, 750 (3):750-760.

Other Journals

O'Brien, P.J. et al. (2006) 'Cardiac troponin I is a sensitive, specific biomarker of cardiac injury in laboratory animals'. *Laboratory Animals*, 40 (2):153-171.

Diaz, D., and O'Brien, P.J. (2006) 'Defining the sequence of events in cerivastatin toxicity using a high-content multi-parametric cytotoxicity assay'. *European Pharmaceutical Review*, 11 (4):38-45.

O'Brien, P.J. (2006) 'Blood cardiac troponin in toxic myocardial injury: archetype of a translational safety biomarker'. *Expert Review of Molecular Diagnostics*, 6 (5):685-702.

Dr John O'Connell

Book Chapters

Harte L. and O'Connell, J. (2007) 'European Dairy co-operative Strategies - horizontal integration versus diversity' In: Karantininis and Nilsson (eds). *Vertical Markets and Cooperative Hierarchies*. Netherlands: Springer.

Conference Publications

Courtney, B., Dunne, W. O'Connell, J.J. (2007) The perceived role of farming in a high amenity region in Ireland. In: Ynze van der Honing (eds.). *Annual Meeting of the European Association of Animal Production 2007*, University College Dublin, 34 – 34.

Courtney, B., Dunne, W., O'Connell, J. J. (2007) The perceptions of non-farming Burren residents on the role and significance of Burren farming . In: Diskin. M.G (eds.). *Agricultural Research Forum 2007*, Tullamore Court Hotel, Tullamore, Co. Offaly, 23 – 23.

Professor John O'Doherty

Peer Reviewed Journals

Leek, A.B.G., Callan, J.J., Reilly, P., Beattie, V.E. and O'Doherty, J.V. (2007) 'Apparent component digestibility and manure ammonia emission in finishing pigs fed diets based on barley, maize or wheat prepared without or with exogenous non-starch polysaccharide enzymes'. *Animal Feed Science and Technology*, 135 (1-2):86-99.
<http://www.sciencedirect.com/science/article/B6T42-4KGPPDB-1/2/b208cd235b1a0eddd5a0cf725ed1b946>

Lynch, M.B., Sweeney, T., Callan, J.J. and O'Doherty, J.V. (2007) 'The effect of dietary crude protein concentration and inulin supplementation on nitrogen excretion and intestinal microflora from finisher pigs'. *Livestock Science*, 109 (1-3):204-207. <http://www.sciencedirect.com/science/article/B7XNX-4N08V7N-F/2/a191e61682c447d8b2b7f588098d3221>

Lynch, M.B., Sweeney, T., Callan, J.J. and O'Doherty, J.V. (2007) 'The effect of dietary barley level on volatile fatty acid concentration and manure ammonia emissions in finishing pigs'. *Livestock Science*, 109 (1-3):236-239.
<http://www.sciencedirect.com/science/article/B7XNX-4N0GJN4-M/2/7b876f3afde16bf2df90f8cc8b5b65c8>

Garry, B.P., Fogarty, M., Curran, T.P. and O'Doherty, J.V. (2007) 'Effect of cereal type and exogenous enzyme supplementation in pig diets on odour and ammonia emissions'. *Livestock Science*, 109 (1-3):212-215.
<http://www.sciencedirect.com/science/article/B7XNX-4N08V7N-9/2/23b4ad707dbdafd69fca97e43df0310>

Lynch, M.B., Callan, J.J. and O'Doherty, J.V. (2007) 'The interaction between enzyme supplementation and lactose level on the performance of weanling pigs fed barley based diets'. *Livestock Science*, 108 (1-3):258-261.

Lynch, M.B., Callan, J.J. and O'Doherty, J.V. (2007) 'The interaction between lactose level and enzyme supplementation and form of barley processing on performance, digestibility and faecal volatile fatty acid concentration of weanling pigs fed barley-based diets'. *Animal Feed Science and Technology* .

http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6T42-4NMCV60-1&_user=103682&_coverDate=05%2F01%2F2007&_alid=587581528&_rdoc=5&_fmt=full&_orig=search&_cdi=4962&_sort=d&_docanchor=&view=c&_ct=23&_acct=C000007921&_version=1&_urlVersion=0&_userid=10

Callan, J.J., Garry, B.P. and O'Doherty, J.V. (2007) 'The effect of expander processing and screen size on nutrient digestibility, growth performance, selected faecal microbial populations and faecal volatile fatty acid concentrations in grower/finisher pigs'. *Animal Feed Science Technology*, 134 (3-4):223-234.

<http://www.sciencedirect.com/science/article/B6T42-4M4KK93-4/2/02e706c8300feaa2cf31917bc4ab31f7>

Saeed, A., O'Doherty, M., O'Doherty, J. and O'Keefe, M. (2007) 'Analysis of the visual and refractive outcome following Laser in-situ keratomileusis (LASIK) retreatment over a four-year follow-up period'. *International Ophthalmology*, 27 :23-29.

Garry, B. P., Fogarty, M., Curran, T.P., O'Connell, M.J. and O'Doherty, J.V. (2007) 'The effect of cereal type and enzyme addition on pig performance, intestinal microflora, and ammonia and odour emissions'. *Animal*, :751-757.

O'Doherty, M., Kirwan, C., O'Keefe, M. and O'Doherty, J.V. (2007) 'Post operative pain following Epi-Lasik, Lasek, and PRK for Myopia'. *Journal of Refractive Surgery*, 23 :133-138.

Pierce, K.M., Callan, J.J., McCarthy, P. and O'Doherty, J.V. (2007) 'The interaction between lactose level and crude protein concentrations on piglet post-weaning performance, nitrogen metabolism, selected faecal microbial populations and faecal volatile fatty acid concentrations'. *Animal Feed Science and Technology*, 132 (1):267-282.

<http://www.sciencedirect.com/science/article/B6T42-4NMCV60-1/2/0e48633e035cb2fc9c0822b9402e7500>

Sweeney, T., Fox, J., Robertson, L., Kelly, G., Lonergan, P., O'Doherty, J., Roche, J.F. and Evans, N.P. (2007) 'Postnatal exposure to octylphenol decreases semen quality in the adult ram'. *Theriogenology*, 67 :1068-1075.

Garry, B.P., Fogarty, M., Curran, T.P. and O'Doherty, J.V. (2007) 'The effect of cereal type and exogenous enzyme supplementation in pig diets on odour and ammonia emissions from finisher pigs'. *Animal*, 1 :751-757.

Lynch, M.B., Sweeney, T., Callan, J.J. and O'Doherty, J.V. (2007) 'Effects of increasing the intake of dietary β-glucans by exchanging wheat for barley on nutrient digestibility, nitrogen excretion, intestinal microflora, volatile fatty acid concentration and manure ammonia emissions in finishing pigs'. *Animal*, 1 (6):812-819.

Lynch, M.B., Sweeney, T., Callan, J.J. and O'Doherty, J.V. (2007) 'The effect of high and low dietary crude protein and inulin supplementation on nutrient digestibility, nitrogen excretion, intestinal microflora and manure ammonia emissions from finisher pigs'. *Animal*, 1 (8):1112-1121.

Leek, A.B.G., Hayes, E., Curran, T.P., Callan, J.J., Dodd, V.A., Beattie, V.E. and O'Doherty, J.V. (2007) 'The influence of manure composition on emissions of odour and ammonia from finishing pigs fed different concentrations of dietary crude protein'. *Bioresource Technology*, 98 (18):3431-3439.

Keane, C.J., Hanlon, A.J., Roche, J.F., Burton, J.L., Mee, J.F., O'Doherty, J.V. and Sweeney, T. (2006) 'A potential anti-apoptotic phenotype in neutrophils of cows milked once daily in early lactation'. *Journal of Dairy Science*, 89 :1024-1027.

Dr Colm O'Donnell

Book Chapters

Fagan, C. C. and O'Donnell C.P. (2007) 'Mid-infrared Spectroscopy for Food Analysis' In: Non-destructive testing of Food Quality. Oxford, UK: Blackwell Publishing.

Peer Reviewed Journals

Everard, C.D., O'Callaghan, D.J., O'Kennedy, B.T., O'Donnell, C.P., Sheehan, E.M., Delahunty, C.M. (2007) 'A three-point bending test for prediction of sensory texture in processed cheese'. *Journal of Texture Studies*, 38 (4):438-456.

Everard, C.D., O'Callaghan, D.J., Fagan, C.C., O'Donnell, C.P., Castillo, M., Payne, F.A. (2007) 'Computer vision and color measurement techniques for inline monitoring of cheese curd syneresis'. *Journal of Dairy Science*, 90 (7):3162-3170.

Fagan, C.C., Everard, C., O'Donnell, C.P., Downey, G., Sheehan, E.M., Delahunty, C.M., O'Callaghan, D.J., Howard, V. (2007) 'Prediction of processed cheese instrumental texture and meltability by mid-infrared spectroscopy coupled with chemometric tools'. *Journal of Food Engineering*, 80 (4):1068-1077.

Fagan, C.C., O'Donnell, C.P., O'Callaghan, D.J., Downey, G., Sheehan, E.M., Delahunty, C.M., Everard, C., Guinee, T.P., Howard, V. (2007) 'Application of mid-infrared spectroscopy to the prediction of maturity and sensory texture attributes of cheddar cheese'. *Journal of Food Science*, 72 (3):E130-E137.

Fagan, C.C., Everard, C., O'Donnell, C.P., Downey, G., Sheehan, E.M., Delahunty, C.M., O'Callaghan, D.J. (2007) 'Evaluating mid-infrared spectroscopy as a new technique for predicting sensory texture attributes of processed cheese'. *Journal of Dairy Science*, 90 (3):1122-1132.

Everard, C.D., O'Donnell, C.P., O'Callaghan, D.J., Sheehan, E.M., Delahunty, C.M., O'Kennedy, B.T., Howard, V. (2007) 'Prediction of sensory textural properties from rheological analysis for process cheeses varying in emulsifying salt, protein and moisture contents'. *Journal of the Science of Food and Agriculture*, 87 (4):641-650.

Fagan, C.C., O'Donnell, C.P., Cullen, P.J., Brennan, C.S. (2006) 'The effect of dietary fibre inclusion on milk coagulation kinetics'. *Journal of Food Engineering*, 77 (2):261-268.

Fagan, C.C., Leedy, M., Castillo, M., Payne, F.A., O'Donnell, C.P., O'Callaghan, D.J. (2006) 'Predicting curd moisture content, whey fat concentration and curd yield from near infrared light backscatter'. *Journal of Animal Science*, 84 :423-423.

Everard, C.D., O'Donnell, C.P., Fagan, C.C., O'Callaghan, D.J., Castillo, M., Payne, F.A. (2006) 'Computer vision analysis to monitor syneresis of cheese curd in a cheese vat'. *Journal of Animal Science*, 84 :424-424.

Mr Jim O'Donovan

Peer Reviewed Journals

McCarthy, G., O'Donovan, J., Jones, B., McAllister, H., Seed, M. & Mooney, C. (2006) 'Randomised double-blind, positive-controlled trial to assess the efficacy of glucosamine/chondroitin sulfate for the treatment of dogs with osteoarthritis'. *The Veterinary Journal*.

Ms Grace Margaret O'Gorman

Peer Reviewed Journals

O'Gorman GM, Park SD, Hill EW, Meade KG, Mitchell LC, Agaba M, Gibson JP, Hanotte O, Naessens J, Kemp SJ, MacHugh DE. (2006) 'Cytokine mRNA profiling of peripheral blood mononuclear cells from trypanotolerant and trypanosusceptible cattle infected with *Trypanosoma congolense*'. *Physiological Genomics*, 28 (1):53-61.

Professor Dolores O'Riordan

Peer Reviewed Journals

Noronha, N., O'Riordan, D. and O'Sullivan, M. (2007) 'Flavouring of imitation cheese with enzyme modified cheeses (EMCs): Sensory impact and measurement of aroma active short chain fatty acids (SCFAs)'. *Food Chemistry*, 106 (3):905-913.

Mounsey, J.S. and O'Riordan, E.D. (2007) 'Modification of imitation cheese structure and rheology using pre-gelatinized starches'. *European Food Research and Technology* .

Mounsey, J.S. and O'Riordan, E.D. (2007) 'Modification of imitation cheese structure and rheology using pre-gelatinized starches'. *European Food Research and Technology* .

Mounsey, J.S. and O'Riordan, E.D. (2007) 'Influence of pre-gelatinised maize starch on the rheology, microstructure and processing of imitation cheese'. *Journal of Food Engineering* .

Mounsey, J.S. and O'Riordan, E.D. (2007) 'Alteration of imitation cheese structure and melting behaviour with wheat starch'. *European Food Research and Technology* .

Noronha, N., O'Riordan, D. and O'Sullivan, M. (2007) 'Replacement of fat with functional fibre in imitation cheese'. *International Dairy Journal*, 17 (9):1073-1082.

Noronha, N., O'Riordan, D. and O'Sullivan, M. (2007) 'Influence of processing parameters on the texture and microstructure of imitation cheese'. *European Food Research and Technology* .

Duggan, E., Noronha, N., O'Riordan, D. and O'Sullivan, M. (2007) 'Effect of resistant starch on the water binding properties of imitation cheese'. *Journal of Food Engineering*, 84 (1):108-115.

Conference Publications

Marete, E.N; Collier, J; Jacquier, J.C and O'Riordan, D. (2007) The influence of freezing and drying on the total phenolic concentration of feverfew (*Tanacetum parthenium*). *International Food Technology Annual Meeting and Food Expo*, Chicago, USA.

Harbourne, N., J. Collier, J.C. Jacquier, and D. O'Riordan (2007) Optimisation of the extraction and processing conditions of chamomile (*Matricaria chamomilla* L.) for incorporation into anti-inflammatory beverages. *International Food Technology Annual Meeting and Food Expo*, Chicago, USA.

O'Connor, M.M., D.B. Brady, R.M. Halpin, A. McMahon, E.D. O'Riordan, M. O'Sullivan (2007) Use of enzyme-treated dairy powders to inhibit the growth of food-associated microorganisms. *Annual meeting and food expo of the Institute of Food Technologists (IFT)*, Chicago, 191.

Arimi, J.M, Duggan, E., O'Riordan, D., O'Sullivan, M and Lyng, J. (2007) Effect of fat: starch ratio on thermal properties, dielectric properties and microwave expansion of high protein dairy matrix. *Annual Meeting of the Institute of Food Technologists*, Chicago, USA.

Halpin, R.M., M.M. O'Connor, A. McMahon, E.D. O'Riordan, M. O'Sullivan, D.B. Brady (2007) Naturally Occurring Foodstuffs Inhibit Adhesion of *Streptococcus mutans* to Hydroxylapatite. Institute of Food Technologists (IFT), Chicago, 96.

Arimi, J.M, Duggan, E., O'Riordan, D., O'Sullivan, M and Lyng, J. (2007) Microwave expansion of a high fibre, high moisture and high protein dairy matrix. Annual Meeting of the Institute of Food Technologists, Chicago, USA.

Noronha, N., Ziegler, G.R., O'Riordan, D. and O'Sullivan M (2007) Examination of the mobility of water in low-fat, high-fibre imitation cheese. Annual Meeting of the Institute of Food Technologists, Chicago, USA.

Noronha, N., Cronin, D., O'Riordan, D. and O'Sullivan, M. (2007) Flavouring of imitation cheese with enzyme modified cheeses. 5th NIZO Dairy Conference, Papendal, The Netherlands.

Halpin, R.M., M.M. O'Connor, A. McMahon, E.D. O'Riordan, M. O'Sullivan, D.B. Brady (2007) Enzyme-modified and Unmodified Buttermilk Powder and Cream Powder Can Inhibit Cariogenic *Streptococci* Adhering to Hydroxylapatite. 160th Meeting of the Society for General Microbiology, University of Manchester, 63.

O'Connor, M.M., D.B. Brady, R.M. Halpin, A. McMahon, E.D. O'Riordan, M. O'Sullivan (2007) Antimicrobial effect of dairy powders on *Streptococcus mutans*. 160th Meeting of the Society for General Microbiology, University of Manchester, 56.

Halpin, R.M., O'Connor, M.M., Boughton, C., O'Riordan, E.D., O'Sullivan, M. Brady, D.B. (2006) Inhibition of adhesion of *Streptococcus mutans* to hydroxyapatite by enzyme-modified whey products. The Society for General Microbiology Conference, April 2006.

Marete, E.N; Collier, J; Jacquier, J.C and O'Riordan, D. (2006) Effects of drying parameters on the parthenolide concentration of feverfew (*Tanacetum parthenium*). 36th Food Research Conference, UCC, Cork.

Mc Darby, S., Duggan, E., O'Riordan, D. and O'Sullivan, M. (2006) Effects of sorbitol on the physical properties of imitation cheese. 36th Research Conference Food Nutrition and Consumer Science. UCC, Cork.

Duggan, E., Noronha, N., O'Riordan, D. and O'Sullivan, M. (2006) Water activity and dielectric properties of high fibre imitation cheese. 36th Research Conference Food Nutrition and Consumer Science. UCC, Cork.

Noronha, N., Ziegler, G.R., O'Riordan, D. and O'Sullivan M. 2006. (2006) Effects of Starch Inclusion on the Mobility of Water in Imitation Cheeses. 36th Research Conference Food Nutrition and Consumer Science. UCC, Cork.

Harbourne, N., J. Collier, J.C. Jacquier, C. Navarro and D. O'Riordan (2006) Determination of the kinetic properties of total phenols and turbidity in aqueous chamomile (*Matricaria chamomilla* L.) extracts. 36th Food Research Conference, UCC, Cork.

Mc Mahon, A.M., Halpin, R.M., O'Connor, M.M., O'Riordan, E.D., O'Sullivan, M., Brady, D.B. (2006) Growth inhibition of food-borne pathogens and food spoilage organisms by an antimicrobial agent derived from whey. 36th Annual Research Conference - Food, Nutritional and Consumer Sciences, UCC, Cork, 10.

O'Connor, M.M., Brady, D.B., Halpin, R.M., McMahon, A., O'Riordan, E.D., O'Sullivan, M. (2006) Antimicrobial properties of dairy powders. 36th Annual Research Conference - Food, Nutritional and Consumer Sciences, UCC, Cork, 20.

Arimi, J.M., Duggan, E., Lyng, J., O'Riordan, D. and O'Sullivan M (2006) Effect of water activity on expansion of a high protein dairy matrix. 36th Research Conference Food Nutrition and Consumer Science. UCC, Cork.

Halpin, R.M., O'Connor, M.M., McMahon, A., O'Riordan, E.D., O'Sullivan, M., Brady, D. (2006) Inhibition of adhesion of Cariogenic *Streptococci* to hydroxyapatite by enzyme-modified whey protein concentrates. Annual Research Conference - Food, Nutritional and Consumer Sciences, UCC, Cork, 10.

Halpin, R.M., O'Connor, M.M., McMahon, A., O'Riordan, E.D., O'Sullivan, M., Brady, D.B. (2006) Inhibition of adhesion of *Streptococcus mutans* and *Streptococcus salivarius* to hydroxyapatite by enzyme-modified dairy products. Society for General Microbiology Symposium, UCD, 38.

Mr Mick O'Sullivan

Peer Reviewed Journals

Noronha, N., O'Riordan, E.D., O'Sullivan, M. (2007) 'Replacement of Fat with Functional Fibre in Imitation Cheese'. *International Dairy Journal*, 17 :1073-1082.

Conference Publications

Halpin, R.M., O'Connor, M.M., McMahon, A., O'Riordan, E.D., O'Sullivan, M., Brady, D.B. (2007) Naturally Occurring Foodstuffs Inhibit Adhesion of *Streptococcus mutans* to Hydroxylapatite. Institute of Food Technologists (IFT), Chicago on 28th July-1st August 2007.

Noronha, N., Ziegler, G.R., O'Riordan, D., O'Sullivan, M. (2007) Effects of Resistant Starch on the Mobility of Water in Imitation Cheeses. annual meeting and food expo of the Institute of Food Technologists (IFT), Chicago on 28th July-1st August 2007.

O'Connor, M.M., Brady, D.B., Halpin, R.M., McMahon, A., O'Riordan, E.D., O'Sullivan, M. (2007) Use of enzyme-treated dairy powders to inhibit the growth of food-associated microorganisms. Annual meeting and food expo of the Institute of Food Technologists (IFT), Chicago on 28th July-1st August 2007.

Halpin, R.M., O'Connor, M.M., McMahon, A., O'Riordan, E.D., O'Sullivan, M., Brady, D.B.. (2007) Enzyme-modified and Unmodified Buttermilk Powder and Cream Powder Can Inhibit Cariogenic *Streptococci* Adhering to Hydroxylapatite. Society for General Microbiology, University of Manchester.

O'Connor, M.M., Brady, D.B., Halpin, R.M., McMahon, A., O'Riordan, E.D., O'Sullivan, M. (2007) Antimicrobial effect of dairy powders on *Streptococcus mutans*. Society for General Microbiology, University of Manchester 26-29 March 2007.

Halpin, R.M., O'Connor, M.M., Boughton, C., O'Riordan, E.D., O'Sullivan, M. Brady, D.B. (2006) Inhibition of adhesion of *Streptococcus mutans* to hydroxyapatite by enzyme-modified whey products, The Society for General Microbiology Conference, April 2006.

Arimi, J.M., Duggan, E., Lyng, J., O'Riordan, D., O'Sullivan, M. (2006) Effect of water activity on expansion of a high protein dairy matrix. 36th Research Conference Food Nutrition and Consumer Science. *UCC, Cork*.

Duggan, E., Noronha, N., O'Riordan, D. and O'Sullivan, M. (2006) Water activity and dielectric properties of high fibre imitation cheese. 36th Research Conference Food Nutrition and Consumer Science. *UCC, Cork*.

Mc Mahon, A.M., Halpin, R.M., O'Connor, M.M., O'Riordan, E.D., O'Sullivan, M. & Brady, D.B (2006) Growth inhibition of food-borne pathogens and food spoilage organisms by an antimicrobial agent derived from whey. 36th Research Conference Food Nutrition and Consumer Science. *UCC, Cork*.

Halpin, R.M., O'Connor, M.M., McMahon, A., O'Riordan, E.D., O'Sullivan, M. & Brady, D.B (2006) Inhibition of adhesion of Cariogenic *Streptococci* to hydroxyapatite by enzyme-modified whey protein concentrates. 36th Annual Research Conference - Food, Nutritional and Consumer Sciences, *UCC*.

Halpin, R.M. O'Connor, M.M. McMahon, A., O'Riordan, E.D. O'Sullivan, M. & Brady, D.B (2006) Inhibition of adhesion of

Streptococcus mutans and Streptococcus salivarius to hydroxyapatite by enzyme-modified dairy products. The Society for General Microbiology Symposium, UCD, September 2006, 38

Mc Darby, S., Duggan, E., O'Riordan, D. and O'Sullivan, M. (2006) Effects of sorbitol on the physical properties of imitation cheese. 36th Research Conference Food Nutrition and Consumer Science. UCC, Cork.

Noronha, N. Ziegler, G.R., O'Riordan, D., O'Sullivan M. (2006). Effects of Starch Inclusion on the Mobility of Water in Imitation Cheeses. 36th Research Conference Food Nutrition and Consumer Science. UCC, Cork.

O'Connor, M.M., Halpin, R.M., McMahon, A., O'Riordan, E.D., O'Sullivan, M. & Brady, D.B (2006) Antimicrobial properties of dairy powders. 36th Annual Research Conference - Food, Nutritional and Consumer Sciences, UCC.

Dr Karina Pierce

Peer Reviewed Journals

Pierce, K.M., Callan, J.J., McCarthy, P. and O'Doherty, J.V. (2007) 'The interaction between lactose level and crude protein concentration on piglet post-weaning performance, nitrogen excretion, selected faecal microbial populations and faecal volatile fatty acid concentrations'. *Animal Feed Science and Technology*, 132 :267-282.

Pierce, K.M., Sweeney, T., Callan, J.J., Byrne, C., McCarthy, P. and O'Doherty, J.V. (2006) 'The effect of inclusion of a high lactose supplement in finishing diets on nutrient digestibility, nitrogen excretion, volatile fatty acid concentrations and ammonia emissions from boars'. *Animal Science*, 125 :45-60.

Pierce, K.M., Sweeney, T., Brophy, P.O., Callan, J.J., Fitzpatrick, E., McCarthy, P. and O'Doherty, J.V. (2006) 'The effect of lactose and inulin on intestinal morphology, selected microbial populations and volatile fatty acid concentrations in the gastro-intestinal tract of the weanling pig'. *Animal Science*, 82 :311-318.

Ms Antonella Puggioni

Peer Reviewed Journals

Puggioni, A., Arnett, R., Clegg, T., Glyde, M., Tobin, E., McAllister, H. (2006) 'Influence of patient positioning on the L5-L6 mid-laminar distance'. *Veterinary Radiology and Ultrasound*, 47 (5):449-452.

Dr Dermot Ruane

Peer Reviewed Journals

McNamara, J., Ruane, D., Whelan, S., Connolly, L. (2007) 'Preliminary Investigation of the Incidence and Impact of Disability on Irish Farms'. *Journal of International Agricultural and Extension Education*, 14 (2):21-35.
<http://www.aiaee.org/archive/vol-14.2.pdf>

Byrne, A., Ruane, D.J., Kelly, T. (2007) 'Financial management Practices on Irish dairy farms'. *Journal of International Farm Management*, 4 (1):1-17. http://ifmaonline.org/pages/jou_articles.php?issues=5#18

O'Brien B., O'Donovan K., Gleeson D., Ruane D.J. Kinsella J (2006) 'Improving labour productivity to facilitate viability on smaller Irish dairy farms'. *Journal of International Farm Management*, 4 (3):1-19.
http://ifmaonline.org/pages/jou_articles.php?issues=4#16

Conference Publications

Ruane D.J., Fallon R.J., Leahy, E.G. O'Riordan (2007) An initial study of the use made by suckler beef farmers of agricultural contractors in the Republic of Ireland. In: Seamus O'Reilly, Michael Keane, Michael Enright eds. 16th International farm management Conference, Cork, Ireland, Cork, Ireland, 578 – 587.

Fallon, R J Ruane D.J., Leahy, H., O'Riordan, E.G. (2007) Intensity of agricultural contractors usage on suckler beef farms in Ireland. In: Seamus O'Reilly, Michael Keane, Michael Enright eds. International Farm Management Conference, Cork, Ireland, 340 – 340.

Whelan, S., Ruane, D.J., McNamara, J., Kinsella, A (2007) Review of quality of life influential factors among Irish farm families reporting disability. In: Seamus O'Reilly, Michael Keane, Michael Enright eds. 16th International farm management conference, Cork, Ireland, 239 – 246.

O'Brien, B, Gleeson, D., Ruane D.J., Kinsella, J., O'Donovan, K (2007) Profile of labour demand, resources and contribution on Irish dairy farms. 16th International farm management conference, Cork, Ireland.

O'Brien, Bernadette, Gleeson, David, Ruane, Dermot J., Kinsella, Jim, O'Donovan, Kevin (2007) New Knowledge of facilities and practices on Irish dairy farms. In: Maria Navarro PhD May 20-24, 2007 eds. Internationalizing with Cultural Leadership. Proceedings of the 23rd Annual Conference, Association for International Agricultural and Extension Education, Polson, Montana, USA, 270 – 279.

O'Brien, B., Gleeson, D., Ruane D.J., Kinsella, J., O'Donovan, K. (2007) A Profile of labour resources and pattern of their labour contribution on Irish dairy farms. In: Maria Navarro, PhD eds. Internationalizing with Cultural Leadership. Proceedings of the 23rd Annual Conference, Association for International Agricultural and Extension Education, Polson, Montana, USA, 420 – 423.

Ruane, Dermot J., Fallon, Richard, Leahy, Hazel, O'Riordan, Edward (2007) Labour-use efficiency on suckler beef farms -some continuing specialist roles for extension. In: Maria Navarro PhD eds. Internationalizing with Cultural Leadership: Proceedings of the 23rd Annual Conference Association for International Agricultural and Extension Education, 312 - 323.

Phelan, J., Ruane, DJ., Finnegan, A (2007) A farm safety model for Irish farms . In: Maria Navarro, PhD (eds.) Internationalizing with Cultural Leadership: Proceedings of the 23rd Annual Conference Association for International Agricultural and Extension Education, Polson, Montana, USA, 292 – 303.

Dr Amalia Scannell

Book Chapters

Scannell, A.G.M. (2006) 'Foodborne illness and detection of pathogenic micro-organisms' In: Da-Wen Sun (eds). Handbook of Frozen Food Processing and Packaging . Florida, USA: CRC Press, (Taylor and Francis group).

Dr Trevor Storey

Conference Publications

Keogh, B., French P., McGrath, T. and T. Storey (2006) Forages for winter grazing, effect of nitrogen and sowing date. British Grassland Society 8th Research Conference.

Professor Da-Wen Sun

Books

Sun, Da-Wen (2007) *Infrared Spectroscopy for Food Quality Analysis and Control*. Netherlands: Elsevier.

Sun, Da-Wen (2007) *Modern Techniques for Food Authentication*. Netherlands: Elsevier. Sun, Da-Wen

(2007) *Computer Vision Technology for Food Quality Evaluation*. Netherlands: Elsevier. Sun, Da-Wen

(2007) *Computational Fluid Dynamics in Food Processing*. USA: CRC Press. Sun, Da-Wen (2006)

Handbook of Frozen Food Processing and Packaging. USA: CRC Press.

Sun, Da-Wen (2006) *Thermal Food Processing: New Technologies and Quality Issues*. USA: CRC Press.

Book Chapters

Norton T. and Sun, Da-Wen (2007) 'An Overview of CFD Applications in the Food Industry' In: *Computational Fluid Dynamics in Food Processing*. USA: CRC Press.

Zheng, L.Y., Sun, Da-Wen and Tan, J. (2007) 'Quality Evaluation of Meat Cuts' In: *Computer Vision Technology for Food Quality Evaluation*. Netherlands: Elsevier.

Zheng, C.X., and Sun, Da-Wen (2007) 'Image Segmentation Techniques' In: *Computer Vision Technology for Food Quality Evaluation*. Netherlands: Elsevier.

Zheng, C.X. and Sun, Da-Wen (2007) 'Object Measurement Methods' In: *Computer Vision Technology for Food Quality Evaluation*. Netherlands: Elsevier.

Du, C.J. and Sun, Da-Wen (2007) 'Object Classification Methods' In: *Computer Vision Technology for Food Quality Evaluation*. Netherlands: Elsevier.

Du, C.J., and Sun, Da-Wen (2007) 'Quality Measurement of Cooked Meats' In: *Computer Vision Technology for Food Quality Evaluation*. Netherlands: Elsevier.

Du, C.J. and Sun, Da-Wen (2007) 'Quality Evaluation of Pizzas' In: *Computer Vision Technology for Food Quality Evaluation*. Netherlands: Elsevier.

Sun, Da-Wen (2006) 'An Overview of Refrigeration Cycles' In: *Handbook of Frozen Food Processing and Packaging*. USA: CRC Press.

Sun, Da-Wen and Zheng, L.Y. (2006) 'Innovations in Freezing Process' In: *Handbook of Frozen Food Processing and Packaging*. USA: CRC Press.

Delgado, A.E., Sun, Da-Wen and Rubiolo, A.C. (2006) 'Thermal Physical Properties of Foods' In: *Thermal Food Processing: New Technologies and Quality Issues*. USA: CRC Press.

Wang, L.J. and Sun, Da-Wen (2006) 'Heat and Mass Transfer in Thermal Food Processing' In: *Thermal Food Processing: New Technologies and Quality Issues*. USA: CRC Press.

Peer Reviewed Journals

Norton, T., Sun, Da-Wen, Grant, J., Fallon, R. and Dodd, V. (2007) 'Applications of Computational Fluid Dynamics (CFD) in the Modelling and Design of Ventilation Systems in the Agricultural Industry: A Review'. *Bioresource*

Technology .

Cheng, Q.F. and Sun, Da-Wen (2007) 'Important Factors Affecting the Water Holding Capacity of Red Meat Products: A Review of Recent Research Advances'. *Critical Reviews in Food Science and Nutrition* .

Jackman, P., Da-Wen Sun and Zheng, L.Y. (2007) 'Effect of Combined Vacuum Cooling and Air Blast Cooling on Processing Time and Cooling Loss of Large Cooked Beef Joints'. *Journal of Food Engineering* .

Delgado A.E. and Sun, Da-Wen (2007) 'Influence of Surface Water Activity on Freezing/Thawing Times and Weight Loss'. *Journal of Food Engineering* .

Jeliski, T., Du, C.J., Sun, Da-Wen and Fornal, J. (2007) 'Inspection of the Distribution and Amount of Ingredients in Pasteurized Cheese by Computer Vision'. *Journal of Food Engineering* .

Cheng, Q.F. and Sun, Da-Wen (2007) 'Effects of Combined Water Cooking-Vacuum Cooling with Water on Processing Time, Mass Loss and Quality of Large Pork Ham'. *Journal of Food Process Engineering* .

Cheng, Q.F. and Sun, Da-Wen (2007) 'Effect of Cooking Bag and Netting Packaging on the Quality of Pork Ham during Water Cooking'. *Meat Science* .

Zheng, C.X., Sun, Da-Wen and Zheng, L.Y. (2007) 'Predicting Shrinkage of Ellipsoid Beef Joints as Affected by Water Immersion Cooking Using Image Analysis and Neural Network'. *Journal of Food Engineering* .

Zhang, Z.H., Sun, D.W. (2006) 'Effects of cooling methods on the cooling efficiency and quality of cooked rice'. *Journal of Food Engineering*, 77 (2):269-274.

Zheng, C.X., Sun, D-W., Zheng, L.Y. (2006) 'Recent applications of image texture for evaluation of food qualities - a review'. *Trends in Food Science & Technology*, 17 (3):113-128.

Zheng, C.X., Sun, Da-Wen and Zheng, L.Y. (2006) 'Segmentation of Beef Joint Images Using Histogram Thresholding'. *Journal of Food Process Engineering* .

Zheng, C.X., Sun, D-W. and Zheng (2006) 'Recent Developments and Applications of Image Features for Food Quality Evaluation and Inspection - A Review'. *Trends in Food Science and Technology*, 17 (12):642-655.

Zheng, C.X., Sun, D-W. and Zheng, L.Y. (2006) 'Classification of Tenderness of Large Cooked Beef Joints Using Wavelet and Gabor Textural Features'. *Transactions of the ASABE*, 49 (5):1447-1454.

Zheng, C.X., Sun, D-W. and Zheng, L.Y. (2006) 'Correlating Colour to Moisture Content of Large Cooked Beef Joints by Computer Vision'. *Journal of Food Engineering*, 77 (4):858-863.

Zheng-Wei, C., Xu, S-Y, Sun, Da-Wen and Chen, W. (2006) 'Dehydration of Concentrated *Ganoderma lucidum* Extraction by Combined Microwave-Vacuum and Conventional Vacuum Drying'. *Drying Technology*, 24 :595-599.

Sun, D-W and Zheng, L.Y. (2006) 'Vacuum Cooling Technology for the Agri-Food Industry: Past, Present and Future'. *Journal of Food Engineering*, 77 (2):203-214.

Zhang, Z.H. and Sun, D-W (2006) 'Effect of Cooling Methods on the Cooling Efficiencies And Qualities of Cooked Broccoli and Carrot Slices'. *Journal of Food Engineering*, 77 (2):320-326.

Du, C.J. and Sun, D-W (2006) 'Learning Techniques Used in Computer Vision for Food Quality Evaluation: A Review'. *Journal of Food Engineering*, 72 (1):39-55.

Zheng, C.X., Sun, D-W and Du, C.J (2006) 'Estimating Shrinkage of Large Cooked Beef Joints during Air-Blast Cooling by Computer Vision'. *Journal of Food Engineering*, 72 (1):56-62.

- Du, C.J. and Sun, D-W (2006) 'Automatic Measurement of Pores and Porosity in Pork Ham and Their Correlations with Processing Time, Water Content and Texture'. *Meat Science*, 72 (2):294-302.
- Zheng, Y-H, Hua, T-C, Sun, D-W, Xiao, J-J, Xu, F. and Wang, F-F. (2006) 'Detection of Dichlorvos Residue by Flow Injection Calorimetric Biosensor Based on Immobilized Chicken Liver Esterase'. *Journal of Food Engineering*, 74 (1):24-29.
- Cheng, Q.F. and Sun, D-W. (2006) 'Improving the Quality of Pork Ham by Pulsed Vacuum Cooling in Water'. *Journal of Food Process Engineering*, 29 :119-133.
- Xie, J., Qu, X.H., Shi, J.Y. and Sun, D-W. (2006) 'Effects of Design Parameters on Flow and Temperature Fields of a Cold Store by CFD Simulation'. *Journal of Food Engineering*, 77 (2):355-363.
- Ma, Y., Xue, L. and Sun, D-W. (2006) 'Characteristics of Trehalose Synthase from Permeabilized *Pseudomonas Putids* Cells and its Application in Converting Maltose into Trehalose'. *Journal of Food Engineering*, 77 (2):342-347.
- Drummond, L.S. and Sun, D-W. (2006) 'Feasibility of Water Immersion Cooking of Beef Joints: Effect on Product Quality and Yield'. *Journal of Food Engineering*, 77 (2):289-294.
- Sun, D-W. and Wang, L.J. (2006) 'Development of a Mathematical Model for Vacuum Cooling of Cooked Meats'. *Journal of Food Engineering*, 77 (3):379-385.
- Du, C.J. and Sun, D-W. (2006) 'Correlating Image Texture Features Extracted by Five Different Methods with the Tenderness of Cooked Pork Ham: A Feasibility Study'. *Transactions of the ASABE*, 49 (2):441-448.
- Cheng, Q.F. and Sun, D-W. (2006) 'Feasibility Assessment of Vacuum Cooling of Cooked Pork Ham with Water Compared to That without Water and with Air Blast Cooling'. *International Journal of Food Science and Technology*, 41 (8):938-945.
- Norton, T. and Sun, D-W. (2006) 'Computational Fluid dynamics (CFD) - An Effective and Efficient Design and Analysis Tool for the Food Industry: A Review'. *Trends in Food Science and Technology*, 17 (11):600-620.
- Zheng, L., Sun, D.W. (2006) 'Innovative applications of power ultrasound during food freezing processes - a review'. *Trends in Food Science & Technology*, 17 (1):16-23.
- Sun, D-W and Zheng, L.Y. (2006) 'Progress in Bioproducts Processing and Food Safety'. *Journal of Food Engineering*, 77 (2):201-378.

Conference Publications

- Du, C.J., Sun, D-W., Jackman, P. and Allen, P. (2006) Correlating the image colour features of beef ribeyes with the quality attributes measured by using traditional methods. 36th Research Conference on Food, Nutrition & Consumer Sciences, Cork, Ireland.
- Norton, T., Grant, J., Fallon, R. and Sun, D-W. (2006) Towards an Optimally Ventilated Calf House (a) Predesign Evaluation. Agricultural Research Forum 2006, Tullamore, Co Offaly, Ireland.
- Norton, T., Grant, J., Fallon, R. and Sun, D-W. (2006) Towards an Optimally Ventilated Calf House (b) Isothermal Optimisation with Computational Fluid Dynamics (CFD). Agricultural Research Forum 2006, Tullamore, Co Offaly, Ireland.
- Sun, D-W. (2006) Computer Vision Technology for Food Quality Evaluation. Proceedings of the International Symposium on Novel Technology in Food Processing and Engineering, National Chung Hsing University, Taichung,

Taiwan.

Du, C.J. and Sun, D-W. (2006) Evaluating the Relationships between Image Texture Features and Tenderness of Cooked Pork Ham. Proceedings of the XVI CIGR World Congress, Bonn, Germany.

Drummond, L.S. and Sun, D-W. (2006) Immersion Vacuum Cooling for Meat Joint Samples - Heat Transfer Modes, Cooling Times and Losses. Proceedings of the XVI CIGR World Congress, Bonn, Germany.

Sun, D-W. and Wang, H.H. (2006) Computer Vision Determination of Melting, Browning and Oiling-Off Characteristics of Cheddar and Mozzarella Cheeses as Affected by Baking Conditions. Proceedings of CHISA 2006 - the 17th International Congress of Chemical and Process Engineering, Prague, Czech Republic.

Sun, D-W. (2006) Applications of Computer Vision for Food Quality Evaluation: A Review on Recent Research Progress. Proceedings of CHISA 2006 - the 17th International Congress of Chemical and Process Engineering, Prague, Czech Republic.

Sun, D-W. (2006) Application of Computer Vision for Food Quality Evaluation. Proceedings of 2006 CIGR International Symposium Warsaw/2nd CIGR Section VI International Symposium on Future of Food Engineering, Warsaw, Poland.

Jelinski, T., Du, C.J., Sun, D-W. and Fornal, J. (2006) Inspecting Ingredients Distribution and Amount of Pasteurised Cheese by Computer Vision. Proceedings of 2006 CIGR International Symposium Warsaw/2nd CIGR Section VI International Symposium on Future of Food Engineering, Warsaw, Poland.

Du, C.J. and Sun, D-W. (2006) Image Texture Analysis Based on Wavelet Transform in Relation to the Tenderness of Cooked Pork Ham. Proceedings of 2006 CIGR International Symposium Warsaw/2nd CIGR Section VI International Symposium on Future of Food Engineering, Warsaw, Poland.

Delgado, A. and Sun, D-W. (2006) Influence of Water Activity on Freezing/Thawing Times and Weight Loss Prediction. Proceedings of 2006 CIGR International Symposium Warsaw/2nd CIGR Section VI International Symposium on Future of Food Engineering, Warsaw, Poland.

Zheng, C.X., Sun, D-W and Zheng, L.Y. (2006) Recent Applications of Image Features in Food Quality Evaluation and Inspection. Proceedings of 2006 CIGR International Symposium Warsaw/2nd CIGR Section VI International Symposium on Future of Food Engineering, Warsaw, Poland.

Drummond, L.S. and Sun, D-W (2006) Cooling Rates and Losses of Vacuum Cooled and Immersion Vacuum Cooled Water-Cooked Beef Joints. Proceedings of 2006 CIGR International Symposium Warsaw/2nd CIGR Section VI International Symposium on Future of Food Engineering, Warsaw, Poland.

Dr Torres Sweeney

Peer Reviewed Journals

Costello, S., O'Doherty, E., Troy, D.J., Kim, K.-S., Ernst, C.W., Sweeney, T., Mullen, A.M. (2007) 'The relationship between polymorphisms in the calpain I, calpain II and growth hormone genes and tenderness in bovine *M. longissimus dorsi*'. *Meat Science*, 75 :551-557.

Sweeney, T., Fox, J., Robertson, L., Kelly, G., Lonergan, P., Roche, J.F. and Evans, N.P. (2007) 'Postnatal exposure to octylphenol decreases semen quality in the adult ram'. *Theriogenology*, 67 :1068-1075.

O'Brien, S.B., Lenahan, M., Sweeney, T. and Sheridan, J.J.. (2007) 'Assessing the hygiene of pig carcasses using whole body carcass swabs compared to the four-site method in EC Decision 471'. *Journal of Food Protection*, 70 (2):432-439.

Lynch, M.B., Sweeney, T., Callan, J.J., Flynn, B. and O'Doherty, J.V. (2007) 'The effect of high and low dietary crude protein and inulin supplementation on nutrient digestibility, nitrogen excretion, intestinal microflora and manure ammonia emissions from finisher pigs'. *Animal*, 1 :1112-1121.

Lynch, M.B., Sweeney, T., Callan, J.J. and O'Doherty, J.V. (2007) 'The effect of dietary crude protein concentration and inulin supplementation on nutrient digestibility, nitrogen excretion, intestinal microflora and manure ammonia emissions from finisher pigs'. *Livestock Science*, 109 :204-207.

Lynch, M.B., Sweeney, T., Callan, J.J. and O'Doherty, J.V. (2007) 'The effect of dietary barley level on nutrient digestibility, nitrogen excretion, intestinal microflora and volatile fatty acid concentration in finishing pigs'. *Livestock Science*, 109 :236-239.

Sweeney, T., O'Doherty, E. and Hanrahan, J.P. (2007) 'Is there a relationship between prion protein genotype and ovulation rate and litter size in sheep?'. *Animal Reproduction Science*, 101 :153-157.

Negredo, C., Monks, E., Sweeney, T. (2007) 'A novel real-time ultrasonic method for prion protein detection using plasminogen as a capture molecule'. *BMC Biotechnology*, 7 .

Conference Publications

Pannier, L., Sweeney, T., Stapleton, P., Hamill, R. and Mullen, A.M (2007) Assessment of single nucleotide polymorphisms (SNPs) in the bovine leptin gene in association with intramuscular fat (IMF) in beef cattle. European Association for Animal Production, Dublin.

Pannier, L., Stapleton, P., Mullen, A.M, Hamill, R and Sweeney, T. (2007) Assessment of single nucleotide polymorphisms (SNPs) in genes on bovine chromosome 14 in association with intramuscular fat (IMF) in beef. European Association for Animal Production, Dublin.

Bahar, B. and Sweeney, T. (2007) Diversity of single nucleotide polymorphisms (SNPs) in the promoter region of the bovine Neuropeptide Y (NPY) gene. European Association for Animal Production.

Aslan, O., Sweeney, T., Mullen, A.M. and Hamill, R. (2007) Genotype frequencies of a non-synonymous polymorphism at exon 9 of the calpain I gene vary among breeds sampled from the Irish herd. European Association for Animal Production.

Boland, T.M., Hayes, L., Murphy, J.J., Sweeney, T. and Crosby, T.F. (2007) Dietary iodine and cobalt supplementation of the pregnant ewe reduces nutrient uptake from the colostrum by the new born lamb. American Society for Animal Science.

McGettrick, S.A., Moloney, A.P., Monahan, F.J., Sweeney, T., Mulligan, F.J. (2007) Delta 9 desaturase gene expression in muscle, adipose tissue and liver of beef heifers following supplementation of grass with a concentrate containing sunflower seed and fish oil. American Association for Animal Science.

Sweeney, T., Aslan, O., Bahar, B., Pannier, L., Mullen, A.M. and Hamill, R.M. (2007) Genetic variation and selection for superior meat quality traits in cattle breeds under sustainable animal production systems. European Association for Animal Production.

Pannier, L., Stapleton, P., Sweeney, T. & Mullen, A.M (2006) Analysis of bovine muscle DNA polymorphisms and their association with meat quality, in particular intramuscular fat, in the Irish cattle population. International Society for Animal Genetics.

Pannier, L., Stapleton, P., Sweeney, T. and Mullen, A.M. (2006) Analysis of bovine muscle DNA polymorphisms and their association with meat quality, in particular intramuscular fat, in the Irish cattle population. 30th International

Conference on Animal Genetics.

Pannier, L., Stapleton, P., Sweeney, T. and Mullen, A.M. (2006) Relationship between a DNA polymorphism in the bovine thyroglobulin gene and intramuscular fat values in the Irish Cattle population. Proceedings, BioNet Annual Conference, The Biotechnology Showcase 2006, Dublin, 13.

Professor Shane Ward

Peer Reviewed Journals

García-Quijano, J.F., Peters, J., Cockx, L., van Wyk, G., Rosanov, A., Deckmyn, G., Ceulemans, R., Ward, S.M., Holden, N.M., Van Orshoven, J. & B. Muys (2007) 'Carbon sequestration and environmental effects of afforestation with *Pinus radiata* D. Don in the Western Cape, South Africa'. *Climate Change*, 83 :323-355.

Devlin, G. J., McDonnell, K., and S. Ward (2007) 'Dynamic Non-DGPS positional performance between professional and recreational GPS receivers'. *Journal of Location Based Services*, 1 (1):77-85.

Corkery, G., Gonzales Barron, U., Butler, F., McDonnell, K., and Ward, (2007) 'A preliminary investigation on face recognition as a biometric identifier of sheep'. *Transactions of the Asae*, 50 (1):313-320.

Barron, P.J., K. McDonnell, S.M. Ward and P.M.O. Owende (2006) 'A method for assessment of degradation of task visibility from operator cabins of field machines'. *Journal of Agricultural Safety and Health*.

Ayalew, G., McCarthy, U., McDonnell, K., Butler, F., McNulty, P.B., & Ward, S.M. (2006) 'Electronic tracking and tracing in food and feed traceability'. *LogForum*, 2 (2):1-17.

Conference Publications

Ayalew, G., Holden, N.M., Grace, P.M., Ward, S.M. (2007) Monte Carlo simulation of microwave detection of glass contaminants in horticultural peat. The IEEE European Microwave Week, EuMW2007.

Barron, U.G., Corkery, G., Barry, B., Butler, F., McDonnell, K. and Ward, S. (2007) Evaluation of retinal recognition technology as a biometric marker for sheep identification. CIGR Section VI - 3rd International Symposium -Food and Agricultural Products: Processing and, Naples, Italy.

Ayalew, G., Holden, N.M., and Ward, S.M. (2006) Comparison of Simple Shape Measures and Fourier Descriptors as applied to the Identification of High-injury-risk Glass Contaminants in Horticultural Peat. ASABE Annual International Meeting, Portland Convention Center, Portland, Oregon, 9 -12 July 2006., 2950 Niles Road, St. Joseph, Michigan, 49085-9659, USA, 24.

Ayalew, G., Holden, N.M., Grace, P.M. and Ward, S.M. (2006) Monte Carlo study of detection of glass contamination in horticultural peat. ASABE Annual International Meeting, Portland Convention Center, Portland, Oregon, 9 - 12 July 2006.

Ayalew, G., McDonnell, K., Butler, F. and Ward, S.M. (2006) A systems approach to the identification of problems in the application of radio-frequency identification (RFID) to meat traceability: a case study. ASABE Annual International Meeting, Portland Convention Center, Portland, Oregon, 9 - 12 July 2006.

Shanahan, C., Ayalew, G., McDonnell, K., Butler, F., Ward, S. M (2006) The use of genetic algorithms for the recovery of damaged barcodes. The Annual Institute of Food Technologists - Non-thermal Processing Division (IFT-NPD) and European Federation of Food Science and Technology (EFFoST) Workshop on Applications of Novel Technologies in Food and Biotechnology, Cork, Ireland.

Barry, B., Corkery, G., Gonzales Barron, U and Ward, S. (2006) The use of muzzle pattern and face recognition as novel biometric methods. Proceedings of the IUFOST 13th World, Nantes, France, 815 – 815.

McCarthy, U., Ayalew, G., Butler, F., McDonnell, K., Ward, S. M. (2006) UHF radio frequency identification (RFID) of modified atmosphere packaged (MAP) meat as a method of item level traceability in the meat supply chain. Proceedings of the Second International Congress on Food Science and Food Biotechnology in Developing Countries (FSFB2-2006), Saltillo, Coahuila, Mexico.

McCarthy, U., Ayalew, G., Butler, F., McDonnell, K., Ward, S. M. (2006) Traceability of modified atmosphere packaged meat using UHF radio frequency identification. The 13th World Congress of Food Science and Technology (Poster presentation), Nantes, France.

Dr Paul Whyte

Peer Reviewed Journals

Murchie, L., Whyte, P., Xia, B., Horrigan, S., Kelly, L., Madden, R. (2007) 'Prevalence of Salmonella spp. in Grade A whole shell eggs in the island of Ireland'. *Journal of Food Protection*, 70 :1238-1240.

Murphy, M., Corcoran, D., Buckley, J.F., O'Mahony, M., Whyte, P., Fanning, S. (2007) 'Development and application of multiple-locus variable number of tandem repeat analysis MLVA to subtype a collection of *Listeria monocytogenes*'. *International Journal of Food Microbiology*, 115 :187-194.

Mullane, N.R., Whyte, P., Wall, P., Quinn, T., Fanning, S. (2006) 'Application of pulsed-field gel electrophoresis to characterise and trace the prevalence of *Enterobacter sakazakii* in an infant formula processing facility'. *International Journal of Food Microbiology*, 116 :73-81.

Minihan, D., O'Mahony, M., Whyte, P., Fanning, S., Fitzsimmons, T. and Collins, J.D. (2006) 'The antimicrobial resistance profiles of *Campylobacter* and *E. coli* O157 isolates from a cohort of clinically normal feedlot cattle'. *Journal of Food, Agriculture and Environment*, 4, :64-69.

Other Journals

Mullane, N.R., Iversen, C., Healy, B., Walsh, C., Whyte, P., Wall, P.G., Quinn, T., Fanning, S. (2007) '*Enterobacter sakazakii*: an emerging bacterial pathogen with implications for infant health'. *Minerva Pediatrica*, 59 :137-148.

Murphy, M., Carroll, A., Whyte, P., O'Mahony, M., McNamara, E., Fanning, S. (2007) 'Development and assessment of a rapid method to detect *Escherichia coli* O26 and O111 and O157 in retail minced beef'. *International Journal of hygiene and environmental health*, 210 :155-161.

Corcoran, D., Clancy, D., O'Mahony, M., Grant, K., Hyland, E., Shanaghy, N., Whyte, P., McLAuchlin, J., Moloney, A., Fanning, S. (2006) 'Comparison of *Listeria monocytogenes* strain types in Irish smoked salmon and other foods'. *International Journal of hygiene and environmental health*, 209 :527-534.

Dr Annetta Zintl

Peer Reviewed Journals

Zintl A., Mulcahy G., De Waal T., De Waele V., Byrne C., Clyne M., Holden N. and Fanning S. (2006) 'An Irish perspective on *Cryptosporidium*'. *Irish Veterinary Journal*, 59 (in 2 parts):442/495-447/500.