

# Report of the President 2007/2008

Sep 2007 - Aug 2008

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

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## Dr Gashaw Ayalew Gobezie

### Peer Reviewed Journals

Ayalew, G. Holden, N. Grace, P. and Ward, S. (2008) 'Evaluation of the detection of glass contamination in horticultural peat and compost using microwave reflection by Monte Carlo simulation'. *Biosystems Engineering*, 99:9-21.

## Professor Alan Baird

### Peer Reviewed Journals

Bolan, T. M., Hayes, L., Sweeney, T., Callan, J. J., Baird, A. W., Keely, S., Crosby, T. F., (2008) 'The effects of cobalt and iodine supplementation of the pregnant ewe diet on immunoglobulin G, vitamin E, T-3 and T-4 levels in the progeny'. *Animal*, 2 (2): 197-206.

Cox, A. B., Rawlinson, L. A., Baird, A. W., Bzik, V., Brayden, D. J., (2008) 'In vitro interactions between the oral absorption promoter, sodium caprate (C-10) and S-Typhimurium in rat intestinal ileal mucosae'. *Pharmaceutical Research*, 25 (1):114-122.

Morrissey, N. K., Bellenger, C. R., Baird, A. W., (2008) 'Bradykinin stimulates prostaglandin E-2 production and cyclooxygenase activity in equine nonglandular and glandular gastric mucosa in vitro'. *Equine Veterinary Journal*, 40 (4):332-336.

Nemeth, F., Hopkins, A. M., Baird, A. W., (2008) 'Neuroimmunology of the liver - Methodology in intact organs'. *Journal of Neuroimmunology*, 197 (2): 171-171.

Campion DP, O'Brien LM, Fitzpatrick E, Baird AW, (2008) 'Eosinophil-nerve interactions and neuronal plasticity in rat gut associated lymphoid tissue (GALT) in response to enteric parasitism'. *Journal of neuroimmunology*, 197 (1):1-9.

O'Brien, L. M., Fitzpatrick, E., Baird, A. W., Campion, D. P., (2008) 'Eosinophil-nerve interactions and neuronal plasticity in rat gut associated lymphoid tissue (GALT) in response to enteric parasitism'. *Immunology*, 197 (1): 1-9.

Campion DP, O'Brien LM, Fitzpatrick E, Baird AW, (2008) 'Eosinophil-nerve interactions and neuronal plasticity in rat gut associated lymphoid tissue (GALT) in response to enteric parasitism'. *Journal of neuroimmunology*, .

Feighery, L. M., Cochrane, S.W., Quinn, T., Baird, A. W., O'Toole, D., Owens, S-E., O'Donoghue, D., Mrsny, R. J. & Brayden, D. J. (2008) 'Myosin light chain kinase inhibition: attempts to correct increased intestinal epithelial permeability in vitro'. *Pharmaceutical Research*.

[http://www.ncbi.nlm.nih.gov/pubmed/18163202?ordinalpos=2&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed\\_ResultsPanel.Pubmed\\_RVDocSum](http://www.ncbi.nlm.nih.gov/pubmed/18163202?ordinalpos=2&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVDocSum)

Feighery, L., Smyth, A, Keely, S., Baird, A. W., O'Connor, W. T., Callanan, J. J., & Brayden, D. J. (2008) 'Increased intestinal permeability in rats subjected to traumatic frontal lobe percussion brain injury'. *Journal of Trauma, Injury, Infection and Critical Care*, 64 (1): 131-137.

[http://www.ncbi.nlm.nih.gov/pubmed/18188111?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed\\_ResultsPanel.Pubmed\\_RVDocSum](http://www.ncbi.nlm.nih.gov/pubmed/18188111?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVDocSum)

## Conference Publications

Gallagher, T.K., Baird, A.W. and Winter, D.C. (2007) Altered human small bowel contractility in obesity *American College of Surgeons*,

## Dr Fabrice Bernard

### Peer Reviewed Journals

Bernard F, Furneaux R, Texiera Da Silva C, Bardet J-F (2008) 'Treatment with rhBMP-2 of extreme radial bone atrophy secondary to fracture management in an Italian greyhound'. *VETERINARY COMPARATIVE ORTHOPAEDICS AND TRAUMA TOLOGY*, 21 (1):64-68.

## Dr Tommy Boland

### Peer Reviewed Journals

Owens, D., Mcgee, M., Boland, T., (2008) 'Intake, rumen fermentation, degradability and digestion kinetics in beef cattle offered autumn grass herbage differing in regrowth interval'. *Grass and Forage Science*, 63 (3):369-379.

Walsh, K., O'Kiely, P., Moloney, A. P., Boland, T. M., (2008) 'Intake, performance and carcass characteristics of beef cattle offered diets based on whole-crop wheat or forage maize relative to grass silage or ad libitum concentrates'. *Livestock Science*, 116 (1 -3):223-236.

McEvoy, M., Kennedy, E., Murphy, J. P., Boland, T. M., Delaby, L., O'Donovan, M., (2008) 'The effect of herbage allowance and concentrate supplementation on milk production performance and dry matter intake of spring-calving dairy cows in early lactation'. *Journal of Dairy Science*, 91 (3):1258-1269.

Walsh, K., O'Kiely, P., Moloney, A. P., Boland, T. M., (2008) 'Intake, digestibility, rumen fermentation and performance of beef cattle fed diets based on whole-crop wheat or barley harvested at two cutting heights relative to maize silage or ad libitum concentrates'. *Animal Feed Science and Technology*, 144 (3-4):257-278.

T.M. Boland, L. Hayes, T. Sweeney, J.J. Callan, P.J. Quinn and T.F. Crosby (2008) 'The effects of cobalt and iodine supplementation of the pregnant ewe diet on immunoglobulin G, vitamin E, T3 and T4 levels in the progeny'. *Animal*, 2:197-206.

McEvoy, M., O'Donovan, M., Murphy, J.P., Boland, T.M., Delaby, L. and Kennedy, E. (2008) 'An investigation into the effect of concentrate supplementation and herbage allowance on milk production performance and dry matter intake of spring-calving dairy cows in early lactation'. *Journal of Dairy Science*, 91:1258-1269.

## Professor David Brayden

### Books

Brayden, D.J. and Martinez, M.N. (2007) *Advanced Drug delivery Reviews Theme Issue (Prediction of therapeutic and drug delivery outcomes using animal models)*. New York: Elsevier.

[http://www.sciencedirect.com/science?\\_ob=PublicationURL&\\_tockey=%23TOC%234953%232007%23999409988%23671731%23FLA%23&\\_cdi=4953&\\_pubType=J&\\_auth=y&\\_acct=C000007921&\\_version=1&\\_urlVersion=0&\\_userid=103682&md5=1bc97cb0f09f4d3f68d8c9411e453b03](http://www.sciencedirect.com/science?_ob=PublicationURL&_tockey=%23TOC%234953%232007%23999409988%23671731%23FLA%23&_cdi=4953&_pubType=J&_auth=y&_acct=C000007921&_version=1&_urlVersion=0&_userid=103682&md5=1bc97cb0f09f4d3f68d8c9411e453b03)

## Peer Reviewed Journals

Keely, S., Brayden, D. J., Rawlinson, L. A. B., Haddleton, D. M., (2008) 'A tertiary amino-containing polymethacrylate polymer protects mucus-covered intestinal epithelial monolayers against pathogenic challenge'. *Pharmaceutical Research*, 25 (5): 1193-1201.

Brayden, D. J., Griffin, J., (2008) 'Avermectin transepithelial transport in MDR1- and MRP-transfected canine kidney monolayers'. *Veterinary Research Communications*, 32 (1):93-106.

Feighery, L. M., Cochrane, S. W., Quinn, T., Baird, A. W., O'Toole, D., Owens, S. E., O'Donoghue, D., Mrsny, R. J., Brayden, D. J., (2008) 'Myosin light chain kinase inhibition: Correction of increased intestinal epithelial permeability in vitro'. *Pharmaceutical Research*, 25 (6): 1377-1386.

Cox, A. B., Rawlinson, L. A., Baird, A. W., Bzik, V., Brayden, D. J., (2008) 'In vitro interactions between the oral absorption promoter, sodium caprate (C-10) and S-Typhimurium in rat intestinal ileal mucosae'. *Pharmaceutical Research*, 25 (1):114-122.

Fletcher, N. F., Bexiga, M., Brayden, D. J., Brankin, B., Willett, B. J., Hosie, M. J., Jacque, J. M., Callanan, J. J., (2008) 'Cell migration through the blood brain barrier (BBB) in feline immunodeficiency virus infection is significantly influenced by the pre-existence of virus and tnf-alpha within the CNS: studies using an in vitro feline BBB model'. *Journal of Neuroimmunology*, 197 (2):161-161.

Maher, S., Brayden, D. J., Feighery, L. M. & McClean, S. (2008) 'Cracking the Junction: Update on the Progress of Gastrointestinal Absorption Enhancement in the Delivery of Poorly Absorbed Drugs'. *Critical Reviews in Therapeutic Drug Carrier Systems*, 25 (2): 117-168.

[http://www.begellhouse.com/journals/3667c4ae6e8fd1\\_36,56f8b0441\\_7929fcd.html](http://www.begellhouse.com/journals/3667c4ae6e8fd1_36,56f8b0441_7929fcd.html)

Ryan SM, Mantovani G, Wang X, Haddleton DM, Brayden DJ. (2008) 'Advances in PEGylation of important biotech molecules: delivery aspects'. *Expert Opinion in Drug Delivery*, 5 (4):371-383.

[http://www.ncbi.nlm.nih.gov/pubmed/18426380?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed\\_ResultsPanel.Pubmed\\_RVDocSum](http://www.ncbi.nlm.nih.gov/pubmed/18426380?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVDocSum)

Feighery, L. M., Smith, P., O'Mahony, L., Fallan, P. G., Brayden, D. J. (2008) 'Effects of Lactobacillus Salivarius 433118 on intestinal inflammation, immunity status and in vitro colon function in two mouse models of inflammatory bowel disease'. *Digestive Diseases and Sciences*, 53 (9):2495-2506.

[http://www.ncbi.nlm.nih.gov/pubmed/18157694?ordinalpos=3&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed\\_ResultsPanel.Pubmed\\_RVDocSum](http://www.ncbi.nlm.nih.gov/pubmed/18157694?ordinalpos=3&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVDocSum)

Brayden, D.J. and Griffin, J. (2008) 'Avermectin transepithelial transport in MDR1- and MRP-transfected canine kidney monolayers'. *Veterinary Research Communications*, 32 (1):93-106.

[http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=ShowDetailView&TermToSearch=17578674&ordinalpos=3&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed\\_ResultsPanel.Pubmed\\_RVDocSum](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=ShowDetailView&TermToSearch=17578674&ordinalpos=3&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVDocSum)

Feighery, L., Smyth, A, Keely, S., Baird, A. W., O'Connor, W. T., Callanan, J. J., & Brayden, D. J. (2008) 'Increased intestinal permeability in rats subjected to traumatic frontal lobe percussion brain injury'. *Journal of Trauma, Injury, Infection and Critical Care*, 64 (1): 131-137.

[http://www.ncbi.nlm.nih.gov/pubmed/18188111?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed\\_ResultsPanel.Pubmed\\_RVDocSum](http://www.ncbi.nlm.nih.gov/pubmed/18188111?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVDocSum)

Fletcher, NF, Brayden, DJ, Brankin, B, & Callanan, JJ (2008) 'Feline Immunodeficiency virus infection: a valuable model to study HIV-1 associated encephalitis'. *VETERINARY IMMUNOLOGY AND IMMUNOPATHOLOGY*. [http://www.ncbi.nlm.nih.gov/pubmed/18289700?ordinalpos=2&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed\\_ResultsPanel.Pubmed\\_RVDocSum](http://www.ncbi.nlm.nih.gov/pubmed/18289700?ordinalpos=2&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVDocSum)

## Conference Publications

Bzik, V & Brayden DJ (2008) Comparison of three in vitro intestinal diffusion systems *Transactions of the 35th Int. Soc. Controlled Release Society, New York*,

Maher, S., Wang, X, Bzik, V, McClean, S. & Brayden, D. J. (2008) Increased intestinal permeability induced by the anti-microbial peptide, melittin: in vivo and ex vivo studies *Transactions of the 35th Int. Soc. Controlled Release Society, Abstract 912*,

Wang, X. & Brayden, DJ (2008) Improved absorption of salmon calcitonin from rat intestine in vivo with sodium caprate and a mucolytic, n-acetyl cysteine *Transactions of the 35th Int. Soc. Controlled Release Society*,

Wang, X, Tambuwala, M., & Brayden, D. J. (2008) Investigation of the absorption-enhancing effects of ethanol in rats *Transactions of the 35th Int. Soc. Controlled Release Society*,

Fletcher, N.F., Bexiga, M., Brayden, D. J., Brankin, B., Willett, B. J., Hosie, M. J., Jacque, J. M. & Callanan, J. J. (2008) Cell migration through the blood-brain barrier in FIV virus infection is significantly influenced by the pre-existence of virus and TN F-a within the CNS: studies using an in vitro feline BBB model *J. Immunology, 197: p. 161, Abstract 3*,

Ryan, S., Wang, X., Mantovani, G, Haddleton, D. M. & Brayden, D.J. (2008) Enhanced intestinal delivery and stability both in vivo and in vitro of site-specific PEGylation of salmon calcitonin to different molecular sizes of POLYPEG® *Transactions of the 35th Int. Soc. Controlled Release Society, Abstract 918*,

Rawlinson, LB & Brayden DJ (2008) A methacrylate polymer is bactericidal to Gram-positive and Gram-negative bacteria *Society for General Microbiology*,

Haddleton, D. M., Mantovani, G. & Brayden, D. J. (2007) Synthetic glycopolymers and protein bioconjugates from living radical polymerization *235th American Chemical Society meeting*,

## Mr Rory Breathnach

### Peer Reviewed Journals

Breathnach, R.M., Fanning, S., Mulcahy, G., Bassett, H.F., Jones, B.R. (2007) 'Canine pododermatitis and idiopathic disease'. *Veterinary Journal*.

Breathnach, R.M., Fanning, S., Mulcahy, G., Bassett, H.F., Jones, B.R. (2007) 'A study of dendritic cell and MHC class II expression in dogs with immunomodulatory-responsive lymphocytic-plasmacytic pododermatitis'. *Veterinary Journal*.

## Dr Lorraine Brennan

### Peer Reviewed Journals

McClenaghan NH, Scullion SM, Mion B, Hewage C, Malthouse JP, Flatt PR, Newsholme P, Brennan L, (2008) 'Prolonged L-alanine exposure induces changes in metabolism, Ca<sup>2+</sup> handling and desensitization of insulin secretion in clonal pancreatic beta-cells'. *Clinical Science*.

Jin Y, Brennan L, (2008) 'Effects of homocysteine on metabolic pathways in cultured astrocytes'. *Neurochemistry International, 52 (8): 1410-1415*.

Gibney MJ, Walsh MC, Brennan L, Pujos-Guillot E, Sébédio JL, Scalbert A, Fagan A, Higgins DG, (2007) 'Influence of acute phytochemical intake on human urinary metabolomic profiles'. *Am J Clin Nutr, 6:1687-1693*.

## Conference Publications

Kandil, S., Brennan, L., McBean, G., (2008) Journal of Neuroimmunology *Differential effects of two gliotoxins on glutathione content in rat C6 glioma cells*, 169 - 169

## Professor Francis Butler

### Peer Reviewed Journals

Gonzales Barron, U. and Butler, F. neering, 84(3): 480-488. (2008) 'Prediction of panellists' perception of bread crumb appearance using fractal and visual textural features'. *Journal of Food Engineering*, 84 (3):480-488.

Gonzales-Barron, U., Butler, F., (2008) 'Prediction of panellists' perception of bread crumb appearance using fractal and visual textural features'. *European Food Research and Technology*, 226 (4):779-785.

## Professor Sean Callanan

### Peer Reviewed Journals

Gallagher WM, Mulrane L, Rexhepaj E, Smart V, Callanan JJ, Orhan D, Eldem T, Mally A, Schroeder S, Meyer K, Wendt M, O'Shea D, (2008) 'Creation of a digital slide and tissue microarray resource from a multi-institutional predictive toxicology study in the rat: an initial report from the PredTox group'. *Experimental and toxicologic pathology: official journal of the Gesellschaft fur Toxikologische Pathologie*, 60 (4-5):235-245.

Callanan JJ, Fletcher NF, Brayden DJ, Brankin B, (2008) 'Feline immunodeficiency virus infection: a valuable model to study HIV-1 associated encephalitis'. *Veterinary Immunology and Immunopathology*, 123 (1-2):134-137.

Shiel, R., Callanan, S., (2008) 'Non-suppurative meningoencephalitis of greyhounds'. *Veterinary Record*, 162 (11):356-356.

Taylor CT, Cummins EP, Seeballuck F, Keely SJ, Mangan NE, Callanan JJ, Fallon PG, (2008) 'The hydroxylase inhibitor dimethyloxalylglycine is protective in a murine model of colitis'. *Gastroenterology*, 134 (1): 156-165.

Brayden DJ, Feighery L, Smyth A, Keely S, Baird AW, O'Connor WT, Callanan JJ, (2008) 'Increased intestinal permeability in rats subjected to traumatic frontal lobe percussion brain injury'. *The Journal of trauma*, 64 (1): 131-11.

O'Sullivan, F.M., Murphy, S.K., Simel, L.R., McCann, A., Callanan, J.J. and Nolan, C.M. (2007) 'Imprinted expression of the canine IGF2R, in the absence of an anti-sense transcript or promoter methylation'. *Evolution & Development*, 9 (6):579-589.

## Conference Publications

Fletcher, N.F., Brayden, D., Brankin, B., Willett, B., Hosie, M. and Callanan, J.J. (2007) Migration of feline immunodeficiency virus infected lymphocytes across an invitro feline blood brain barrier model is promoted by the basolateral presence of FIV and TNF *25th Annual meeting of European Society of Veterinary Pathology*,

Fletcher, N.F., Brayden, D.J., Brankin, B., Willett, B.J., Hosie, M.J. and Callanan, J.J. (2007) Cell migration through the blood brain barrier in feline immunodeficiency virus infection is significantly influenced by the pre-existence of virus and TNF alpha within the CNS: studies using an in vitro felin BBB model *7th Annual UCD Conway Festival of Research*,

## Dr Deirdre Campion

### Peer Reviewed Journals

Campion DP, O'Brien LM, Fitzpatrick E, Baird AW, (2008) 'Eosinophil-nerve interactions and neuronal plasticity in rat gut associated lymphoid tissue (GALT) in response to enteric parasitism'. *Journal of neuroimmunology*.

## Professor Stephen Carrington

### Peer Reviewed Journals

Maischberger, E., Irwin, J. A., Carrington, S. D., Duggan, V. E., (2008) 'Equine post-breeding endometritis: A review'. *Irish Veterinary Journal*, 61 (3): 163-168.

Cummins, C., Carrington, S., Fitzpatrick, E., Duggan, V., (2008) 'Ascending placentitis in the mare: A review'. *Irish Veterinary Journal*, 61 (5):307-313.

Carrington SD, Royle L, Matthews E, Corfield A, Berry M, Rudd PM, Dwek RA, (2008) 'Glycan structures of ocular surface mucins in man, rabbit and dog display species differences'. *Glycoconjugate journal*.

### Conference Publications

Maischberger E., Irwin J.A., Cummins C.A., Duggan V.E., Carrington S.D., Corfield A.P. and Reid C.J. (2008) Mucin gene expression in the equine reproductive tract *16th International Congress on Animal Reproduction ICAR, Budapest, Hungary*,

Cummins C., Duggan V., FitzPatrick E., Reid C. and Carrington S. (2008) Histological characterisation of mucus secreting cells in the lower equine reproductive tract *16th International Congress on Animal Reproduction ICAR, Budapest, Hungary*,

Susan McNally, Dr. Marguerite Clyne, Professor Stephen Carrington, and Dr. Colm Reid. (2008) A Novel Model System to Investigate the Role of the Intestinal Mucin MUC2 in Mediating Enteric Pathogen Interactions with Mucosal Surfaces *American Society of Microbiology General Meeting, Boston*,

MAISCHBERGER, E., IRWIN, J.A., CUMMINS, C.A, DUGGAN, V.E., CARRINGTON, S.D., CORFIELD, A.P., REID, C.J. (2008) Mucin gene expression in the equine reproductive tract. [Oral Presentation] *42nd meeting of the Association of Veterinary Teaching and Research Workers (Irish Region) at the Backweston Campus Cellbridge*,

Maischberger, E., Irwin, J., Reid, C.J., Duggan, V., Corfield, A.P. and Carrington, S.D. (2007) Mucin Gene Expression in the Equine Endometrium *Mucins in Health and Disease (9th International Workshop on Carcinoma-associated Mucins) Robinson College Cambridge July 2007*,

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., Carrington, S. D. (2007) New insights into supramucosal gel turnover: The role of mucin glycosylation *8th Jenner Glycobiology and Medicine Symposium Organised by the Clinical Immunology and allergy section, Royal Society of Medicine, UK and Oxford-Dublin Glycobiology Laboratory, University College Dublin, O'Reilly Hall, Ireland*.

## Dr Joe Cassidy

### Peer Reviewed Journals

Bendrey, R., Taylor, G. M., Bouwman, A. S., Cassidy, J. P., (2008) 'Suspected bacterial disease in two archaeological horse skeletons from southern England: palaeopathological and biomolecular studies'. *Journal of Archaeological Science*, 35 (6):1581-1590.

Agger, E. M., Cassidy, J. P., Brady, J., Korsholm, K. S., Vingsbo-Lundberg, C., Andersen, P., (2008) 'Adjuvant modulation of the cytokine balance in Mycobacterium tuberculosis subunit vaccines; immunity, pathology and protection'. *Immunology*, 124 (2): 175-185.

Kelly J, Cassidy JP, Caulfield C, Jones BR, Worrall S, Conlon L, Palmer AC, (2007) 'Leukoencephalomyelopathy in specific pathogen-free cats'. *VETERINARY PATHOLOGY*, 44 (6):912-916.

## Professor Mark Crowe

### Peer Reviewed Journals

Crowe MA, Lane EA, Austin EJ, (2008) 'Oestrous synchronisation in cattle-Current options following the EU regulations restricting use of oestrogenic compounds in food-producing animals: A review'. *Animal Reproduction Science*.

Pang WY, Earley B, Prendiville DJ, Murray M, Gath VP, Crowe MA (2008) 'Effect of banding or burdizzo castration on plasma testosterone, acute-phase proteins, scrotal circumference, growth and health of bulls'. *Livestock Science*, 117 (1):79-87.

[http://www.sciencedirect.com/science?\\_ob=ArticleURL&\\_udi=B7XNX-4RDBFFV-1 &\\_user=1\\_03682&\\_rdoc=1 &\\_fmt=&\\_or\\_ig=search&\\_sort=d&\\_view=c&\\_acct=C000007921 &\\_version=1 &\\_urlVersion=0&\\_userid=1\\_03682&\\_md5=d05e3caf7fc7ef6df96efcd93347d260](http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B7XNX-4RDBFFV-1 &_user=1_03682&_rdoc=1 &_fmt=&_or_ig=search&_sort=d&_view=c&_acct=C000007921 &_version=1 &_urlVersion=0&_userid=1_03682&_md5=d05e3caf7fc7ef6df96efcd93347d260)

Gupta, S., Earley, B., Nolan, M., Formentin, E., Crowe, M. A., (2008) 'Effect of repeated regrouping and relocation on behaviour of steers'. *Applied Animal Behaviour Science*, 110 (3-4):229-243.

Carter, F., Forde, N., Duffy, P., Wade, M., Fair, T., Crowe, M. A., Evans, A. C. O., Kenny, D. A., Roche, J. F., Lonergan, P., (2008) 'Effect of increasing progesterone concentration from Day 3 of pregnancy on subsequent embryo survival and development in beef heifers'. *Reproduction Fertility and Development*, 20 (3):368-375.

Crowe MA, Buckham Sporer KR, Weber PS, Burton JL, Earley B, (2008) 'Transportation of young beef bulls alters circulating physiological parameters that may be effective biomarkers of stress'. *Journal of Animal Science*, 86 (6): 1325-1334.

Crowe MA, Lane EA, Sweeney T, Ryan M, Roche JF, (2008) 'Relationship between serum gonadotropins and pituitary immunoreactive gonadotropins and steroid receptors during the first FSH increase of the estrous cycle and following steroid treatment in heifers'. *Animal Reproduction Science*.

Sporer, K. R. B., Xiaoc, L., Tempelmanc, R. J., Burtonc, J. L., Earley, B., Crowe, M. A., (2008) 'Transportation stress alters the circulating steroid environment and neutrophil gene expression in beef bulls'. *Veterinary Immunology and Immunopathology*, 121 (3-4):300-320.

Crowe MA, Sporer KR, Xiao L, Tempelman RJ, Burton JL, Earley B, (2008) 'Transportation stress alters the circulating steroid environment and neutrophil gene expression in beef bulls'. *Veterinary Immunology and Immunopathology*, 121 (3-4):300-320.

## Dr Enda Cummins

### Books Edited

Cummins E. and Thiel, D (Ed.). (2008) *5th International Conference on simulation and modelling in the food and bio industry*. Ghent, Belgium: Reproduct NV.

Cummins, E (Ed.). (2008) *International Journal of Risk Assessment and Management*. UK: Inderscience Enterprises Ltd.

### Peer Reviewed Journals

Cummins, E., Nally, P., Butler, F., Duffy, G., O'Brien, S., (2008) 'Development and validation of a probabilistic second-order exposure assessment model for Escherichia coli O157: H7 contamination of beef trimmings from Irish meat plants'. *Meat Science*, 79 (1): 139-154.

O'Brien, N., Cummins, E., (2008) 'Recent developments in nanotechnology and risk assessment strategies for addressing public and environmental health concerns'. *Human and Ecological Risk Assessment*, 14 (3):568-592.

Cummins, E., F. Butler, R. Gormley and N. Brunton (2008) 'A methodology for evaluating the formation and human exposure to acrylamide through fried potato crisps'. *Food Science and Technology*, 41 (5):854-867.  
<http://www.sciencedirect.com>

Coffey, R., E. Cummins and S. Ward (2008) 'Feed to food risk assessment with particular reference to mycotoxins in bovine feed'. *International Journal of Risk Assessment and Management*, 8 (3):266-286.

Cummins, E. (2008) 'The role of quantitative risk assessment in the management of foodborne biological hazards'. *International Journal of Risk Assessment and Management*, 8 (3):31 8-330.

Brunton, NP, Gormley, R, Butler, F, Cummins, E, Danaher, M, Minihana, M, O'Keeffe, M, (2007) 'A survey of acrylamide precursors in Irish ware potatoes and acrylamide levels in French fries'. *LWT-FOOD SCI TECHNOL*, 40 (9):1601-1609.

Coffey, R., Cummins, E., Cormican, M., Flaherty, V. O., Kelly, S., (2007) 'Microbial exposure assessment of waterborne pathogens'. *Human and Ecological Risk Assessment*, 13 (6):1313-1351.

Cummins, E., Adkin, A., (2007) 'Exposure assessment of TSEs from the landspreading of meat and bone meal'. *Risk Analysis*, 27 (5): 1179-1202.

### Conference Publications

Tiwari, U. and Cummins, E. (2008) A methodology for predicting barley beta glucan levels during pre-harvest stages *5th International Conference on Simulation and Modelling in the Food and Bio Industry*, 125 - 129

Chitlapilly, S., Abu-Ghannam, N. and Cummins, E. (2008) Predictive modelling of Listeria monocytogens in Irish smoked salmon *5th International Conference on Simulation and Modelling in the Food and Bio Industry*, Dublin, Ireland, 98 - 98

Coffey R., Cummins E., Cormican, M. and O'Flaherty, V. (2008) Prediction of microbial contamination of water sources using ArcSWAT *Agricultural and Biosystems Engineering for a sustainable world (AgEng08)*, Knossos Royal Village, Hersonissos - Crete, Greece, 62 - 63

Coffey, R. and Cummins, E. (2008) An exposure assessment of Mycotoxins from feed to food in dairy milk *5th International Conference on Simulation and Modelling in the Food and Bio Industry*, Dublin, Ireland, 113 - 119

O'Brien N. and Cummins E. (2008) Development of a three-level risk assessment strategy for nanomaterials *NATO Advanced Research Workshop: Risk, Uncertainty and Decision Analysis for Nanomaterials: Environmental Risks and Benefits and Emerging Consumer Products*, Portugal, 7

O'Brien, N. and Cummins, E. (2008) A primary 3-level risk assessment tool for nanomaterials following environmental applications *NanoEco*, Centre Stefano Franscini Monte Verita Ascona, Switzerland, 45

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## **Dr Tom Curran**

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## **Mr Florent David**

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## **Dr Theo De Waal**

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## **Dr Adriana Edith Delgado**

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## **Professor Michael Liam Doherty**

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## **Dr Elaine Duggan**

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## **Professor Alexander Evans**

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## **Mr Alan Fahey**

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## **Dr Trudee Fair**

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### **Professor Séamus Fanning**

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## **Dr Niamh Forde**

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## **Ms Thurid Freitag**

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## **Dr Eileen Gibney**

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## **Professor Mike Gibney**

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## Dr David MacHugh

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## **Professor Simon John More**

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## **Dr Anne Nugent**

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## **Dr Grace Margaret O'Gorman**

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### **Mr Mick O'Sullivan**

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## **Ms Simone Schuller**

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## **Mr Ian Anthony Self**

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F. Mendoza, N. A. Valous, A. Delgado and Da-Wen Sun (2008) Multifractal Characterizations of Apple Pore and Ham Fat Connective Tissue Size Distributions Using Image Analysis *Proceedings of the 10th International Congress on Engineering and Food (ICEF 10)*, Viña del Mar, Chile,

P. Jackman, Da-Wen Sun and P. Allen (2008) Prediction of Important Beef Eating Qualities from a Variety of Wavelet Texture Features *Proceedings of the 10th International Congress on Engineering and Food (ICEF 10)*, Viña del Mar, Chile,

Da-Wen Sun (2008) CFD: An Innovative and Effective Design Tool for the Food Industry *of the 10th International Congress on Engineering and Food (ICEF 10) (Invited speech)*, Viña del Mar, Chile,

A. E. Delgado, L. Y. Zheng and Da-Wen Sun (2008) Effect of Acoustic Intensity on Freezing Rate and Nucleation Temperature of Immersion-Frozen Melons *Proceedings of the 10th International Congress on Engineering and Food (ICEF 10)*, Viña del Mar, Chile,

Da-Wen Sun (2007) Computer Vision Technology for Food Quality Evaluation *Proceedings of International Conference on Traditional Dairy Foods (ICTDF 2007) (Invited speech)*, Karnal, India,

Da-Wen Sun (2007) Computational Fluid Dynamics for the Food Industry (Keynote Speech) *Proceedings of 2007 CIGR International Symposium/3rd CIGR Section VI International Symposium on Food and Agricultural Products: Processing and Innovations*, Naples, Italy,

C. J. Du and Da-Wen Sun (2007) Effectiveness of Image Colour, Marbling, and Texture Features for Evaluating the Quality of Beef Steak *Proceedings of 2007 CIGR International Symposium/3rd CIGR Section VI International Symposium on Food and Agricultural Products: Processing and Innovations*, Naples, Italy,

C. X. Zheng, Da-Wen Sun, P. Barreiro and L. Y. Zheng (2007) A Two-Dimensional Histogram Thresholding Algorithm for Image Segmentation *Proceedings of 2007 CIGR International Symposium/3rd CIGR Section VI International Symposium on Food and Agricultural Products: Processing and Innovations*, Naples, Italy,

P. Jackman, Da-Wen Sun, C. J. Du and P. Allen (2007) Prediction of Beef Eating Qualities from Colour and Marbling Features *Proceedings of 2007 CIGR International Symposium/3rd CIGR Section VI International Symposium on Food and Agricultural Products: Processing and Innovations*, Naples, Italy,

F. Mendoza<sup>1</sup>, N. A. Valous and Da-Wen Sun (2007) Analysis and Classification of Commercial Ham Slice Images using Directional Fractal Dimension Features *Proceedings of 2007 CIGR International Symposium/3rd CIGR Section VI International Symposium on Food and Agricultural Products: Processing and Innovations*, Naples, Italy,

A. E. Delgado, L. Y. Zheng and Da-Wen Sun (2007) Influence of Ultrasound on Freezing Rate of Immersion-frozen Apples *Proceedings of 2007 CIGR International Symposium/3rd CIGR Section VI International Symposium on Food and Agricultural Products: Processing and Innovations*, Naples, Italy,

## Professor Torres Sweeney

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## Dr Marianne Walsh

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