

List of publications arising from research funded by the Agency for the financial year 2012/13

Hygiene and Microbiology Programme

FS101036: Knight, A., Li, D., Uyttendaele, M., Jaykus, L-A, A critical review of methods for detecting human noroviruses and predicting their infectivity, (2012) *Critical Reviews in Microbiology*, [e-pub ahead of print]

FS231043: Nawaz, S., Allen, D.J., Aladin, F., Gallimore, C. & Iturriza-Gómara. M. (2012) Human bocaviruses are not significantly associated with gastroenteritis: results of retesting archive DNA from a case control study in the UK. *PLoS ONE* 7(7): e41346
doi: 10.1371/journal.pone.0041346

FS231046: Wilson, R., Hart, P., Piccardo, P., Hunter, N., Casalone, C., Baron, T. & Barron, R., (2012) Bovine PrP expression levels in transgenic mice influence transmission characteristics of atypical BSE. *Journal of General Virology* 93(5), 1132-40

FS231046: Wilson, R., Plinston, C., Hunter, N., Casalone, C., Corona, C., Tagliavini, F., Suardi, S., Ruggerone, M., Moda, F., Graziano, S., Sbriccoli, M., Cardone, F., Pocchiari, M., Ingrosso, L., Baron, T., Richt, J., Andreoletti, O., Simmons, M., Lockey R, Manson J. & Barron, R. (2012) Chronic wasting disease and atypical forms of BSE and scrapie are not transmissible to mice expressing wild-type levels of human PrP. *Journal of General Virology* 93(7),1624-9

FS231053: Bannach, O., Birkmann, E., Reinartz, E., Jaeger, K-E., Langeveld, J.P., Rohwer, J.P., Gregori, L., Terry, L.A., Willbold. D. & Riesner, D. (2012) Detection of prion protein particles in blood plasma of scrapie infected sheep. *PLoS One* 2012 7(5): e36620

FS235003: Lowther, J.A., Gustar, N.E., Powell, A.L., Hartnell, R.E. & Lees, D.N. (2012) A two-year systematic study to assess norovirus contamination in oysters from commercial harvesting areas in the United Kingdom. *Appl. Environ. Microbiol.* 78(16):5812-7
doi: 10.1128/AEM.01046

S14006/S14004: Roux, F., Sproston, E., Rotariu, O., Macrae, M., Sheppard, S. K., Bessell, P., Smith-Palmer, A., Cowden, J., M. Maiden, C. J., Forbes, K. J. and Strachan. N. J. C. (2013). Elucidating the Aetiology of Human *Campylobacter coli* Infections. *PLoS ONE* 8:e64504.

S14006/S14004: Strachan, N. J. C., Rotariu, O, Smith-Palmer, A., J. Cowden, J., Sheppard, S. K., O'Brien, S. J., Maiden, M. C. J., M. Macrae, M. Bessell, P. R., Matthews, L., Reid, S. W. J., Innocent, G. T., Ogden, I. D., and Forbes. K. J. (2013).

Identifying the seasonal origins of human campylobacteriosis. *Epidemiology and Infection* 141:1267-1275.

S14006: Read D.S., Woodcock D.J., Strachan N.J., Forbes K.J., Colles F.M., Maiden M.C., Clifton-Hadley F., Ridley A., Vidal A., Rodgers J., Whiteley A.S., Sheppard S.K. (2013). Evidence for phenotypic plasticity amongst multi-host *Campylobacter jejuni* and *C. coli* lineages using ribosomal MLST and Raman spectroscopy. *Appl. Environ. Microbiol.* 79(3): 965-73
doi: 10.1128/AEM.02521-12

S14006: Strachan N.J., MacRae M., Thomson A., Rotariu O., Ogden I.D., Forbes K.J. (2012). Source attribution, prevalence and enumeration of *Campylobacter* spp. from retail liver. *Int.J.Food Microbiol.* 153:234-236.

Chemical Safety Programme

FS131010: Melintescu, A., Galeriu, D., Tucker, S., Kennedy, P., Siclet, F., Yamamoto, K. & Uchida, S. (2013) Carbon-14 transfer into potato plants following a short exposure to an atmospheric ¹⁴CO₂ emission: observations and model predictions. *Journal of Environmental Radioactivity* 115, 183e191

FS231013: Wall, R.J., He, G., Denison, M.S., Congiu, C., Onnis, V., Fernandes, A., Bell, D.R., Rose, M., Rowlands, J.C., Balboni, G., Mellor, I.R. (2012a) Novel 2-amino-isoflavones exhibit aryl hydrocarbon receptor agonist or antagonist activity in a species/cell-specific context. *Toxicology* 297, 26-33.
doi.org/10.1016/j.tox.2012.03.011

FS231013: Wall, RJ, Fernandes, A., Rose, M., Rowlands, J.C., Bell, D.R. and Mellor, I.R. (2012b) Fused mesoionic heterocyclic compounds are a new class of aryl hydrocarbon receptor agonist of exceptional potency. *Toxicology*, 302 (2-3): 140-145.
doi.org/10.1016/j.tox.2012.09.003

FS241003: Norton, G., Deacon, C., Mestrot, A., Feldmann, J., Jenkins, P., Baskaran, C. & Meharg, A.A. (2013) Arsenic speciation and localization in horticultural produce grown in a historically impacted mining region, *Environmental Science and Technology*, 6164–6172
doi: 10.1021/es400720r

FS231023: Ermler, S., Scholtze, M., Kortenkamp, A. (2013) Seven benzimidazole pesticides combined at sub-threshold levels induce micronuclei in vitro. *Mutagenesis*. Epub ahead of print: 1 April 2013. doi: 10.1093/mutage/get019

C01048: Bradley, E.L., Burden, R.A., Leon, I., Mortimer, D.N., Speck, D.R. & Castle, L. (2013) Determination of phthalate diesters in foods. *Food Additives & Contaminants: Part A*

doi: 10.1080/19440049.2013.781683

C01048: Bradley, E.L., Burden, R.A., Bentayeb, K., Driffield, M., Harmer, N., Mortimer, D.N., Speck, D.R., Ticha, J. & Castle, L. (2013) Exposure to phthalic acid, phthalate diesters and phthalate monoesters from foodstuffs: UK total diet study results. *Food Additives & Contaminants: Part A*

doi: 10.1080/19440049.2013.781684

T07046: McBride, D., Keil, T., Grabenhenrich, L. et al. (2012). The EuroPrevall birth cohort study on food allergy: baseline characteristics of 12,000 newborns and their families from nine European countries. *Pediatric allergy and immunology*. 23(3) 230-239,

doi: 10.1111/j.1399-3038.2011.01254.x

T07046: Grimshaw, K.E.C., Oliver, E.M., Kemp, T., Mills, E.N.C., Beyer, K., Foote, K. and Roberts, G. (2012) Maternal Dietary Intake and Subsequent Allergy Development. *The Journal of Allergy and Clinical Immunology*. 129(2) S, AB173,

doi:10.1016/j.jaci.2011.12.210

T07058: Barnett, J., Botting, N., Gowland, H., Lucas, J. (2012).The strategies that peanut and nut-allergic consumers employ to remain safe when travelling abroad. *Clinical and Translational Allergy*, 2 (12).

doi: 10.1186/2045-7022-2-12

T07058: Barnett, J., Vasileiou, K., Gowland, H.; et al. (2013). Beyond Labelling: What Strategies Do Nut Allergic Individuals Employ to Make Food Choices? A Qualitative Study. *PLoS ONE*, 8 (1).

doi: 10.1371/journal.pone.0055293

T07060: Keller, M., O'Carroll, M., Murray, D.; et al. (2012). Establishing normal values for newborn transepidermal water loss using the Cork BASELINE birth cohort study. *Allergy*, 67, SI Supplement: 96, (140-140)

doi: 10.1111/pde.12106

T07060: Keller, M., Galvin, A. D., Murray, D.; et al. (2013). Early Life Transepidermal Water Loss (TEWL) Values Can Predate Atopic Dermatitis At Six and Twelve Months in Asymptomatic Infants: Results From the Baseline Study. *Journal of Allergy and Clinical Immunology*, 131 (2): AB102-AB102

doi:10.1016/j.jaci.2012.12.1035

T07060: Kelleher, M., O'Carroll. M., Gallagher. A., Murray. D,M., Dunn Galvin. A., Irvine. A. D., Hourihane. J. O. (2013). Newborn Transepidermal Water Loss Values: A Reference Dataset. *Pediatric dermatology*, [e-pub ahead of print]

doi: 10.1111/pde.12106

Effective Risk-Based Enforcement and Compliance

FS245009: Hill, A., Brouwer, A., Donaldson, N., Lambton, S., Buncic, S. & Griffiths I. (2013) A risk and benefit assessment for visual-only meat inspection of indoor and outdoor pigs in the United Kingdom, *Food Control* 30, (1) 255-264.
doi: 10.1016/j.foodcont.2012.04.031

Dietary Health and Nutrition (Scotland)

FS424017: Leslie, W.S., Comrie, F., Lean, M.E.J. & Hankey, C. R. (2012) Designing the eatwell week: the application of eatwell plate advice to weekly food intake, *Public Health Nutrition*, 16(5):795-802.
doi: 10.1017/S1368980012004193

FS424019: Wills, W.J., Macdiarmid, J.I., Masson, L. F., Bromley, C., Craig, L. & McNeill, G. (2013) Children's food and drink purchasing behaviour 'beyond the school gate': The development of a survey module. *ISRN Nutrition*, Vol 2013, Article 501450
doi: 10.5402/2013/501450

FS424018: Wrieden, W.L., Armstrong, J., Sherriff, A., Anderson, A.S. and Barton, K.L. (2013) Slow pace of dietary change in Scotland: 2001-9. *British Journal of Nutrition*, 109, 1892-1902

Cross-Cutting (Social Sciences)

NUT002/3: Gunter, B., Dickinson, R., Matthews, J., Cole, J. (2013) Formula manufacturers' web sites: are they really non-compliant advertisements? *Health Education*, 113: Iss: 1, 18-27
doi: 10.1108/09654281311293619

NUT002/3: Dickinson, R., Gunter, B., Matthews, J., Cole, J The impact of amended controls on the advertising of infant formula in the UK: findings from a before and after study, *International Journal of Health Promotion and Education*, 51: 1, 11-22,
doi: 10.1080/14635240.2012.735385