

List of publications arising from research funded by the Agency for the financial year 2010/11

A01 – Food additives (research)

A01067: Scotter, M.J., Roberts, D.P.T. & Rees, G.O. (2011) Development and single-laboratory validation of an HPLC method for the determination of coumarin in foodstuffs using internal standardization and solid-phase extraction cleanup. *Analytical Methods* 3, 414-419.

A01074: Scotter, M.J. (2011) Methods for the determination of European Union-permitted added natural colours in foods: a review. *Food Additives and Contaminants Part A*, 1-70.

B18 – Microbiological surveillance

ZB1807: Turner, A.D. Hatfield R.G., Rapkova M, Higman W., Algoet M., Suarez-Isla B.A., Cordova M., Caceres C., van de Riet J., Gibbs R., Thomas K., Quilliam M., Lees D.N. (2011) Comparison of AOAC 2005.06 LC Official method with other methodologies for the quantitation of paralytic shellfish poisoning toxins in UK shellfish species. *Journal of Analytical and Bioanalytical Chemistry* 399(3),1257-1270

ZB1807: Turner, A.D. Hatfield R.G., Rapkova-Dhanji M., Norton D.M., Algoet M., Lees D.N. (2010) Single laboratory validation of a refined AOAC HPLC method (2005.06) for oysters, cockles and clams in UK shellfish. *Journal of AOAC International*, 93(5),1482-1493

C02 – Chemical contaminants from food production (research)

C02062: Fernandes, A., Mortimer, D., Rose, M. & Gem, M. (2010) Dioxins (PCDD/Fs) and PCBs in offal: occurrence and dietary exposure. *Chemosphere*, 81(4), 536-540.

E01 – Data quality and improved methods of analysis

E01068: Clarke, D.B. (2010) Glucosinolates, structures and analysis in food. *Analytical Methods*, 2, 310-325.

E01077: Analytical Method Committee, The Royal Society of Chemistry (2010) The role of proficiency testing in method validation. *Accreditation and Quality Assurance* 15, 73-79.

G03 – Safety assessment of novel and GM foods

G03026: Cullen, D., Harwood, W. A., Smedley, M. A., Davies, H., & Taylor, M. (2011) Comparison of DNA walking methods for isolation of transgene-flanking

regions in GM potato. *Molecular Biotechnology*, published online doi:
[10.1007/s12033-010-9371-5](https://doi.org/10.1007/s12033-010-9371-5)

G03029: Tryfona, T., Liang, H.-C., Kotake, T., Kaneko, S., Marsh, J., Ichinose, H., Lovegrove, A., Tsumuraya, Y., Shewry, P.R., Stephens, E. & Dupree, P. (2011) Carbohydrate structural analysis of wheat flour arabinogalactan protein. *Carbohydrate Research* 345, 2648-2656, published online doi:[10.1016/j.carres.2010.09.018](https://doi.org/10.1016/j.carres.2010.09.018)

G03030: La Mura, M., Allnutt, T.R., Greenland, A., Mackay, I. & Lee, D. (2010) Application of quiz for GM quantification in food. *Food Chemistry*, published online doi: [10.1016/j.foodchem.2010.10.002](https://doi.org/10.1016/j.foodchem.2010.10.002)

L01 – Consumer choice and standards

L01X01: Dangour, A. D., Lock, K., Hayter, A., Aikenhead, A., Allen, E. & Uauy, R. (2010) Nutrition-related health effects of organic foods: a systematic review. *Am J Clinical Nutrition* 92, 203-210, published online [doi:10.3945/ajcn.2010.29269](https://doi.org/10.3945/ajcn.2010.29269)

M03 –Transmissible Spongiform Encephalopathies (TSEs)

M03039: Hilton, G.R., Thalassinou, K., Grabenauer, M., Sanghera, N., Slade, S.E., Wyttenbach, T., Robinson, P.J., Pinheiro, T.J.T., Bowers, M.T. & Scrivens, J.H.(2010) Structural analysis of prion proteins using drift cell and travelling wave ion mobility mass spectrometry. *Journal of the American Society for Mass Spectrometry* 21, 845-854

M03043: Padilla, D., Béringue, V., Espinosa, J.C., Andréoletti, O., Jaumain, E., Reine, F., Herzog, L., Gutierrez-Adan, A., Pintado B., Laude H. & Torres J.M. (2011) Sheep and goat BSE propagate more efficiently than cattle BSE in human PrP transgenic mice. Published online *PLoS Pathogens* 7: [e1001319](https://doi.org/10.1371/journal.ppat.1001319)

M03058: Andréoletti, O., Orge, L., Benestad, S.L., Beringue, V., Litaïe, C., Simon, S., Le Dur, A., Laude, H., Simmons, H., Luga, S., Corbière, F., Costes, P., Morel, N., Schelcher, F. & Lacroux, C. (2011) Atypical/Nor98 scrapie infectivity in sheep peripheral tissues. Published online *PLoS Pathogens* 7: [e1001285](https://doi.org/10.1371/journal.ppat.1001285)

M03063: Panza, G., Luers, L., Stohr, J., Weiss, J., Riesner, D., Willbold, D. & Birkmann E. (2010) Molecular interactions between prions as seeds and recombinant prion proteins as substrates resemble the biological interspecies barrier in vitro. Published online *PLoS One* 5: [e14283](https://doi.org/10.1371/journal.pone.014283)

Q01 – Food authenticity (research)

Q01104: Sentandreu, M.A., Fraser, P.D., Halket, J., Patel, R. & Bramley, P.M. (2010) A proteomic-based approach for detection of chicken in meat mixes. *Journal of Proteome Research*, published online doi: 10.1021/pr9008942

T01 – Risk assessment

T01045: Evans, R.M., Rahte, S. & Kortenkamp, A. (2010) Inability to confirm estrogenicity of the heterocyclic amine PhIP in two in vitro assays. *Toxicol. in vitro*, 24(6),1757-1763.

T05 – Phytoestrogens in the diet

T05029: Sathyapalan, T., Manuchehri, A.M., Thatcher, N.J., Rigby, A.S., Kilpatrick, E.S., Chapman, T. & Atkin, S.L. (2010) The effect of soy phytoestrogen supplementation on thyroid status and cardiovascular risk markers in patients with subclinical hypothyroidism: a randomized double blind crossover study. *The Journal of Clinical Endocrinology & Metabolism*, published online doi: 10.1210/jc.2010-2255

T07 – Food intolerance

T07058: Barnett, J., Leftwich, J., Muncer, K., Grimshaw, K., Shepherd, R., Raats, M. M., Gowland, M. H. & Lucas, J. S. (2011) How do peanut and nut-allergic consumers use information on the packaging to avoid allergens? *Allergy*, 66, published online doi: 10.1111/j.1398-9995.2011.02563.x

T07058: Leftwich, J., Barnett, J., Muncer, K., Shepherd, R., Raats, M. M., Gowland, M. H. & Lucas, J. S. (2011) The challenges for nut-allergic consumers of eating out. *Clinical & Experimental Allergy*, 41, 243–249, published online (2010) doi: 10.1111/j.1365-2222.2010.03649.x

T10 – Risk assessment of mixtures of pesticides and similar substances

T10008: Sams, C. & Jones, K. (2011) Human volunteer studies investigating the potential for toxicokinetic interactions between the pesticides deltamethrin; pirimicarb and chlorpyrifos-methyl following oral exposure at the acceptable daily intake. *Toxicology Letters* 200, 41-45