

## Annexe D – Research projects funded by the Agency in 2008/09

### Chemical Contaminants

A03 – Chemical Contaminants from Food Contact Materials & Articles (Research)					
Programme Contact – Mr Terry Donohoe, Tel: 020 7276 8709					
Email: terry.donohoe@foodstandards.gsi.gov.uk					
Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
A03057	Nonylphenol in food contact plastics and migration into foods	Food and Environment Research Agency (FERA)	01/09/2006	31/03/2009	32,843.00
A03060	Development and validation of an LC-MS-MS method for the determination of primary aromatic amines, and use of this for the assessment of migration models for foods with high packaging: food mass ratios	Leatherhead Food International	01/05/2006	01/05/2008	25,623.80
A03062	Identify the chemicals that are specific to active and intelligent packaging on the market and the extent to which they migrate into food, through laboratory based research	TNO	01/08/2006	31/03/2009	34,949.75
A03064	Review of the existing use of simulants for migration testing and recommendations for future work/ possible modifications	Food and Environment Research Agency (FERA)	09/05/2007	31/03/2009	9,791.00
A03066	Investigation into the effect of additives on migration of substances originating from colourants used in food contact plastics	PIRA International	01/10/2007	30/10/2009	24,528.00
A03067	Measurement of packaged food intake of selected groups of adults by kilogram body weight to include type of packaging and foodstuff	University of Newcastle	01/11/2007	30/11/2009	106,972.00
A03068	Literature review, analytical screening and chemical migration studies on irradiated food packaging	Food and Environment Research Agency (FERA)	17/09/2007	17/07/2009	64,308.00
A03069	Development of screening tests for visible and non visible set off of inks and varnishes to the food contact side of printed packaging	PIRA International	01/11/2008	30/04/2011	40,660.00
A03070	Biobased materials used in food contact applications: an assessment of the migration potential	Food and Environment Research Agency (FERA)	01/11/2008	30/04/2010	24,380.00
A03071	Flavouring, additives and food contact material exposure task	Food and Environment Research Agency (FERA)	01/09/2008	31/08/2012	9,115.00
					Total: £373,170.55

**A04 – Chemical Contaminants from Food Contact Materials & Articles (Surveys)****Programme Contact – Mr Terry Donohoe, Tel: 020 7276 8709**Email: [terry.donohoe@foodstandards.gsi.gov.uk](mailto:terry.donohoe@foodstandards.gsi.gov.uk)

Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
A04016	A 4 year rolling programme of surveys on migrants from food contact materials and articles	Food and Environment Research Agency (FERA)	16/01/2008	31/12/2012	89,971.00
Total: £89,971.00					

**C01 – Chemical Contaminants from Food Production (Research)****Programme Contact – Mr Terry Donohoe, Tel: 020 7276 8709**Email: [terry.donohoe@foodstandards.gsi.gov.uk](mailto:terry.donohoe@foodstandards.gsi.gov.uk)

Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
C01039	Investigation of the occurrence of polychlorinated naphthalenes and polychlorinated short, medium and long chain paraffins in food	Food and Environment Research Agency (FERA)	01/02/2007	31/07/2008	19,592.00
C01041	Environmental contaminants in fish and shellfish from unmanaged inland UK waterways	Food and Environment Research Agency (FERA)	01/01/2006	28/02/2010	78,446.00
C01044	Investigation of the long-term effects of river flooding on levels of organic environmental contaminants in food from livestock reared on flood-prone pastures	Food and Environment Research Agency (FERA)	01/05/2007	31/03/2011	150,256.32
C01048	Determination of phthalates in foods and establishing methodology to distinguish their source	Food and Environment Research Agency (FERA)	01/02/2008	01/08/2009	93,750.00
C01049	Levels of arsenic in rice: the effects of cooking	University of Aberdeen	01/02/2008	31/08/2008	7,402.00
C01050	Investigation into the presence of mixed brominated and chlorinated dioxins in food	Food and Environment Research Agency (FERA)	15/07/2008	31/03/2010	102,499.00
Total: £451,945.32					

### C02 – Chemical Contaminants from Food Production (Surveys)

Programme Contact – Mr Terry Donohoe, Tel: 020 7276 8709

Email: terry.donohoe@foodstandards.gsi.gov.uk

Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
C02082	Development of a national retail sampling plan and carry out the purchase of 250 samples of raw and processed vegetables, preserves, eggs, fish and offal for the analysis of PFOS, PFOA and related compounds	Ventress Technical Limited	01/05/2007	28/02/2008	1,620.00
C02086	Arsenic in rice milk	Food and Environment Research Agency (FERA)	16/07/2008	15/08/2008	7,995.00
C02087	Collection of samples of rice milk drinks on retail sale in the UK for the analysis of organic arsenic and inorganic arsenic	Ventress Technical Limited	30/06/2008	31/07/2008	4,620.00
C02088	Analysis of arsenic in meat and offal	University of Aberdeen	01/03/2009	29/05/2009	27,500.00
					Total: £41,735.00

### C03 – Mycotoxins and Process Contaminants (including nitrate) (Research)

Programme Contact – Mr Terry Donohoe, Tel: 020 7276 8709

Email: terry.donohoe@foodstandards.gsi.gov.uk

Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
C03041	Fusarium mycotoxins in the cereal food chain	RHM Technology	01/02/2005	31/10/2008	48,074.00
C03042	Genetic and Agronomic approaches to reducing acrylamide formation in food derived from potato and cereals	BBSRC Rothamsted Research	10/10/2004	30/09/2007	4,979.00
C03044	Analysis of DON biomarkers on stored urine samples	University of Leeds	15/03/2005	31/08/2008	27,954.00
C03059	Investigate the impact of agronomic practices on mycotoxin levels in oats and analysis of the implications of modifying agronomic practices	University College Harper Adams	01/09/2008	31/05/2012	10,000.00
C03060	Determination of masked Fusarium mycotoxins in cereals and cereal-based food	Food and Environment Research Agency (FERA)	01/07/2008	30/09/2009	32,010.60
C03061	Investigation of the loss of parent Fumonisin mycotoxins during food processing	RHM Technology	01/10/2008	03/04/2010	6,240.00
C03066	Collection of food samples for a four-year mycotoxin surveillance programme	Ventress Technical Limited	01/01/2009	31/01/2013	4,658.00
					Total: £133,915.60

#### C04 – Mycotoxins and Process Contaminants (including nitrate) (Surveys)

Programme Contact – Mr Terry Donohoe, Tel: 020 7276 8709

Email: terry.donohoe@foodstandards.gsi.gov.uk

Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
C04059	Survey of acrylamide, 3-monochloropropane-1,2-diol (3-MCPD), ethyl carbamate and furan in UK retail samples	RHM Technology	01/02/2007	31/01/2010	70,000.00
C04060	Development of a sampling plan and collection of samples for the survey of acrylamide, 3-monochloropropane-1,2-diol (3-MCPD), ethyl carbamate and furan in UK retail samples	Ventress Technical Limited	01/02/2007	01/02/2010	14,258.20
					Total: £84,258.20

## Chemical Risk Assessment

#### T01 – Risk Assessment

Programme Contact – Dr Natalie Thatcher, Tel: 020 7276 8528

Email: natalie.thatcher@foodstandards.gsi.gov.uk

Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
T01034	Risk assessment of dietary dioxins	University of Nottingham	01/09/2003	31/03/2008	6,663.00
T01042	Quality of life-integrated benefit and risk analysis: Web-based tool for assessing food safety and health benefits	Food and Environment Research Agency (FERA)	01/08/2006	30/09/2009	79,352.00
T01045	The assessment of joint endocrine effects of multi-component mixtures of food contaminants and additives	University of London – School of Pharmacy	01/03/2007	28/02/2010	130,024.07
T01048	Effect of cruciferous vegetable dietary intervention in humans on urinary metabonomic profile	Imperial College, London	15/03/2007	31/12/2008	8,000.00
					Total: £224,039.07

### T05 – Phytoestrogens in the Diet

Programme Contact – Dr David Gott, Tel: 020 7276 8535

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Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
T05028	Dietary and biomarker prospective study of phytoestrogens in breast and prostate cancer	Medical Research Council – Dunn Nutrition	01/10/2004	01/07/2008	76,546.40
T05029	A double blind placebo controlled crossover trial of soy phytoestrogens in patients with compensated hypothyroidism	University of Hull	03/01/2005	31/07/2010	169,091.00
Total: £245,637.40					

### T10 – Risk Assessment of Mixtures of Pesticides and Similar Substances

Programme Contact – Dr Diane Benford, Tel: 020 7276 8510

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Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
T10008	Dose-response and mixture response of pesticides in <i>in vitro</i> and <i>in vivo</i>	Health and Safety Laboratory – Sheffield	01/01/2005	31/10/2008	13,170.00
T10011	Interindividuality in cytochrome P450 and paraoxonase mediated metabolism of mixtures of pesticides	CXR Biosciences	01/03/2005	28/02/2008	108,497.00
T10014	A study to identify small metabolite biomarkers of effect following exposure to single or mixtures of pesticides	Centre for Ecology and Hydrology	01/11/2006	31/10/2009	119,667.72
T10015	Functional impact of polymorphisms of transport proteins upon pesticide delivery to the CNS	University of Newcastle	01/04/2006	31/03/2008	40,171.00
T10016	Characterisation of the nature of combined actions of chemical mixtures and estimation of dose response relationships for pesticide mixtures	Food and Environment Research Agency (FERA)	01/07/2006	02/02/2009	42,305.10
T10019	The effects of storage time, preparation and cooking method on residual pesticide levels in apples and potatoes treated with a suite of commonly used permitted pesticides.	Department of Agriculture and Rural Development (DARDNI)	01/07/2006	31/12/2009	62,400.00
T10020	Application of protein profiles to identify common mechanism groups of pyrethrins and pyrethroids	Imperial College, London	14/08/2006	13/08/2009	79,845.35
T10021	Immunoassay detection of urinary biomarkers of pesticide exposure	ADAS Consulting	01/07/2006	30/06/2009	80,319.00
Total: £546,375.17					

## Food Intolerance

### T07 – Food Intolerance

Programme Contact – Dr Joelle Buck, Tel: 020 7276 8516

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Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
T07042	Longitudinal study of T cell responses in development and resolution of food allergy	University of Cambridge	01/07/2004	31/01/2010	26,436.00
T07046	The prevalence of food allergy and weaning practices in a birth cohort of UK infants	University of Southampton	01/08/2005	31/10/2009	158,326.92
T07049	Characterisation of the immune mechanisms involved in the induction of oral tolerance to peanuts in children	University of London – KCL	01/07/2007	31/07/2012	165,713.92
T07051	Randomized controlled trial of early introduction of allergenic foods to induce tolerance in infants	University of London – KCL	15/01/2008	30/09/2014	259,053.55
T07052	Systematic review of the literature on early life patterns of exposure to, or avoidance of food allergens and later development of sensitisation and clinical allergy, with particular reference to peanut allergy	British Nutrition Foundation	08/10/2007	31/05/2008	10,935.41
T07053	Literature review to determine the state of current scientific knowledge on the nutritional adequacy of a typical gluten-free diet with particular reference to iron, calcium, folate and B vitamins.	Coeliac UK	17/03/2008	12/09/2008	32,050.02
T07054	Analysis of egg & milk consumption data from food frequency questionnaires collected under T07044, to support the work of an FSA funded PhD	University of Southampton – Southampton General Hospital	16/04/2008	15/07/2008	5,802.00
T07055	Non-systematic literature review of published studies which have utilised animal models to investigate the effect of exposure to /avoidance of peanut allergen during pregnancy/lactation/early life on development of later signs or symptoms of sensitisation	University of Manchester	14/04/2008	09/05/2008	1,800.00
T07057	Evaluation of the effectiveness of the best practice guidance on allergen management and consumer information	COI Communications	15/08/2008	31/12/2008	57,776.88
T07058	Understanding the dietary patterns and food choice reasoning of food allergic consumers	University of Surrey	01/01/2009	31/01/2010	24,270.00
T07059	Consumer understanding of new labelling terms for foods marketed for people with gluten intolerance	COI Communications	18/02/2009	30/04/2009	36,855.00
					Total: £779,019.70

## Microbiological Safety

### B11 – Verocytotoxin-producing E.coli O157 (VTEC)

Programme Contact – Mr David Alexander, Tel: 020 7276 8949

Email: david.alexander@foodstandards.gsi.gov.uk

Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
B11013	Development and validation of methods for the detection and identification of sorbitol-fermenting verocytotoxin-Producing <i>Escherichia coli</i> O157:H-	SAC Commercial Ltd	01/10/2007	28/02/2010	85,494.00
					Total: £85,494.00

### B12 – Microbiological Risk Assessment

Programme Contact – Dr Paul Cook, Tel: 020 7276 8950

Email: paul.cook@foodstandards.gsi.gov.uk

Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
B12008	The survival of <i>M. bovis</i> and <i>E. coli</i> O157 in UK-produced cheeses made from raw cows' milk	CCFRA	01/09/2007	01/09/2009	120,016.00
					Total: £120,016.00

**B13 – Microbiological Risk Management****Programme Contact – Dr Paul Cook, Tel: 020 7276 8950**

Email: paul.cook@foodstandards.gsi.gov.uk

Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
B13008	An investigation into the attitudes and behaviours of consumers and caregivers in the preparation, handling, storage and feeding of powdered infant formula inside and outside the home	University of Wales Institute Cardiff	01/05/2007	31/12/2009	28,113.60
B13010	Bacteriocidal preparation of powdered infant milk formulae	Nottingham Trent University	01/04/2007	30/09/2008	77,859.00
					Total: £105,972.60

**B14 – Foodborne Disease****Programme Contact – Ms Gael O’Neill, Tel: 020 7276 8475**

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Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
B14004	Generate an archive of extracted nucleic acid for IID archived faecal specimens	Health Protection Agency	01/01/2003	31/03/2010	6,213.00
B18021	The second study of infectious intestinal disease in the community – determining disease burden and calibrating national surveillance data in the United Kingdom	University of Manchester	01/04/2006	31/07/2010	746,303.59
					Total: £752,516.59

## B15 – Eggs and Poultry

Programme Contact – Dr Kathryn Callaghan, Tel: 020 7276 8943

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Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
B15012	The influences and therapeutic use of bacteriophage against campylobacters entering the human food chain	BBSRC	01/03/2005	31/10/2008	1,907.50
B15013	The influences and therapeutic use of bacteriophage against campylobacters entering the human food chain	BBSRC	01/03/2005	31/10/2008	0.00
B15014	Review of current practices and recommendations for <i>Campylobacter</i> reduction in extensively reared flocks	University of Bristol	01/04/2006	31/03/2009	48,759.30
B15015	Host acute stress responses and the regulation of <i>C. jejuni</i> virulence in the avian gut	BBSRC	01/11/2006	31/10/2009	11,768.16
B15016	Host acute stress responses and the regulation of <i>C. jejuni</i> virulence in the avian gut	BBSRC	08/01/2007	31/01/2010	9,472.23
B15017	Host acute stress responses and the regulation of <i>C. jejuni</i> virulence in the avian gut	BBSRC	01/11/2006	31/10/2009	11,170.80
B15018	National flock prevalence survey of <i>Campylobacter</i>	Veterinary Laboratories Agency	01/10/2006	31/05/2010	67,000.00
B15021	A nitric oxide responsive network in <i>C. jejuni</i> its role in intracellular survival and resistance to nitrosative stresses	BBSRC	01/06/2007	31/05/2010	18,438.00
B15022	A nitric oxide responsive network in <i>C. jejuni</i> its role in intracellular survival and resistance to nitrosative stresses	BBSRC	01/03/2007	28/02/2010	17,000.13
B15024	An investigation of water treatment as an intervention to reduce <i>Campylobacter</i> on the poultry farm	SAC Commerical Ltd	01/03/2008	28/02/2009	103,589.05
B15025	A critical review of interventions and strategies (both biosecurity and non-biosecurity) to reduce <i>Campylobacter</i> on the poultry farm	Veterinary Laboratories Agency	17/03/2008	15/11/2008	47,279.80
B15026	Feasibility study to inform the development of a risk assessment model to measure the effectiveness of food chain interventions on the levels of <i>Campylobacter</i> in chicken on retail sale in the UK	Veterinary Laboratories Agency	01/05/2008	31/10/2008	46,752.98
B15027	Molecular mechanisms underlying the interaction of <i>Salmonella</i> Enteritidis with the hen oviduct and survival in eggs	BBSRC	01/09/2008	31/08/2011	16,552.06
B15028	Molecular mechanisms underlying the interaction of <i>Salmonella</i> Enteritidis with the hen oviduct and survival in eggs	BBSRC	13/03/2008	28/02/2011	33,401.00
					Total: £433,091.01

## B16 – Shellfish Hygiene

Programme Contact – Dr Kevin Hargin, Tel: 020 7276 8953

Email: kevin.hargin@foodstandards.gsi.gov.uk

Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
B16009	Alternative bioassays for use in fractionation studies to investigate the cause of the atypical MBA reaction	Integrin Advanced Biosystems	01/10/2005	31/08/2009	53,000.00
					Total: £53,000.00

## B17 – Organic Wastes

Programme Contact – Mr David Alexander, Tel: 020 7276 8949

Email: david.alexander@foodstandards.gsi.gov.uk

Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
B17007	A review of the published literature describing foodborne illness outbreaks associated with ready to eat fresh produce and an overview of current UK fresh produce farming practices	Hutchison Scientific Ltd	01/07/2007	30/06/2008	24,653.40
					Total: £24,653.40

## B18 – Microbiological Surveillance

Programme Contact – Mr Adam Hardgrave, Tel: 020 7276 8957

Email: adam.hardgrave@foodstandards.gsi.gov.uk

Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
B18023	Development of generic methods for recovering bacteria from fatty foods and overcoming the inhibitory action of spices	University of Reading	01/05/2007	30/04/2008	25,230.00
B18024	A microbiological survey of retail cold slices meats and pates with particular reference to the presence of <i>Listeria monocytogenes</i>	ALcontrol Laboratories	01/03/2007	30/04/2008	92,710.00
B18025	A UK-wide microbiological survey of <i>Campylobacter</i> and <i>Salmonella</i> contamination in raw chicken at retail sale	Food and Environment Research Agency (FERA)	01/05/2007	15/09/2008	176,003.70
B18026	Maintain an archive of samples from past and future FSA microbiological surveys and carry out reference typing of a range of key micro organisms	Health Protection Agency	31/01/2008	30/01/2009	88,100.00
B18027	Integrated Monitoring and Control of Foodborne Viruses in European Food Supply Chains (VITAL)	Food and Environment Research Agency (FERA)	01/04/2008	31/03/2011	8,500.00
					Total: £390,543.70

### P01 – Marine Microbiology and Biotoxins

Programme Contact – Dr Kevin Hargin, Tel: 020 7276 8953

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Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
P01001	Modification and derivatisation of lipophilic shellfish toxins to enable extract clean-up and LC-MS quantitation	LGC	01/11/2007	31/08/2009	39,150.00
P01005	Validation of a LC-MS method for the determination of lipophilic toxins in UK commercial shellfish	CEFAS – Weymouth	21/01/2008	31/12/2010	162,151.00
P01008	Development & certification of tissue & calibration solution CRMs for PSP toxins	National Research Council Canada	20/02/2008	31/07/2009	40,584.02
Total:					£241,885.02

## Meat Hygiene Including TSEs

### M01 – Meat Hygiene – Microbiological Safety (non-TSE research)

Programme Contact – Mrs Mary Howell, Tel: 020 7276 8373

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Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
M01039	Reducing <i>Campylobacter</i> cross-contamination during poultry processing	University of Bristol	01/07/2005	31/03/2009	49,939.00
M01042	Survey for <i>Trichinella</i> in wildlife	Food and Environment Research Agency (FERA)	01/11/2005	31/03/2009	143,553.55
M01043	Evaluation of surveillance data and risk management strategies for <i>Trichinella</i> in Great Britain	Massey University	01/01/2006	31/03/2009	15,078.00
M01045	Evaluation of data generated by meat plants for current HACCP verification purposes and future slaughterhouse hygiene purposes	P W Hutchison Ltd	01/11/2005	31/03/2009	70,201.00
M01047	Quantitative microbiological risk assessment on <i>Salmonella</i> in slaughter and breeder pigs	Veterinary Laboratories Agency	01/01/2008	31/09/2009	25,000.00
M01048	A detailed study of the prevalence of veterinary medicine residues (e.g. parasiticides) in 'skin-on' sheep feet	Food and Environment Research Agency (FERA)	01/02/2008	31/08/2009	67,377.60
M01049	The microbiological status of wild and farmed venison	University of Nottingham	01/02/2008	31/07/2010	116,899.56
M01050	Development of harmonised schemes for monitoring and reporting of <i>Echinococcus</i> , <i>Trichinella</i> , <i>Cysticercus</i> and <i>Sarcocystis</i> in animals and foodstuffs in the European Union	Food and Environment Research Agency (FERA)	01/01/2008	31/03/2009	20,000.00
M01051	EU baseline survey for <i>Campylobacter</i> and <i>Salmonella</i> in broiler carcasses	Veterinary Laboratories Agency	01/04/2008	31/03/2009	151,300.00
Total:					£659,348.71

## M03 – Transmissible Spongiform Encephalopathies (TSEs)

Programme Contact – Dr Irene Hill, Tel: 020 7276 8324

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Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
M03024	Susceptibility of UK red deer ( <i>Cervus elaphus elaphus</i> ) to oral BSE transmission	Veterinary Laboratories Agency	01/09/2003	31/03/2009	208,017.32
M03038	Development of rapid high-throughput pre-clinical diagnostic tests for TSEs	University of Cambridge	01/10/2005	30/09/2008	63,105.00
M03039	Toward an antemortem test for bovine spongiform encephalopathy: an ion mobility/mass spectrometry approach	University of Warwick	01/02/2007	30/09/2009	106,152.00
M03040	Development of <i>ex vivo</i> model systems to measure BSE titre	Veterinary Laboratories Agency	01/04/2007	31/03/2009	56,348.36
M03043	Exploring permeability of human species barrier to circulating TSE agent	ENVT	01/03/2007	28/02/2012	135,497.16
M03054	Risk of transmission of atypical forms of animal TSE in humans	University of Edinburgh	01/04/2007	31/03/2011	123,919.37
M03055	Assessing the risk to humans of transmission of novel TSE isolates by cell free conversion assays	University of Edinburgh	01/04/2007	31/03/2010	68,865.60
M03056	The tissue distribution of disease-related PrP and infectivity for atypical scrapie in sheep following experimental oral challenge	University of Edinburgh	01/05/2007	30/04/2011	125,108.00
M03057	Investigation of infectivity of ARR/ARR atypical scrapie in slaughter age sheep by oral dosing of young lambs of the homologous genotype	Veterinary Laboratories Agency	15/01/2007	31/03/2012	73,733.56
M03058	Infectivity and abnormal PrP in tissues from sheep exposed to atypical scrapie	ENVT	01/07/2007	30/06/2011	43,082.35
M03059	Distribution of infectivity and PrP <sup>Sc</sup> in edible tissues of scrapie-infected sheep	Moredun Research Institute	01/04/2007	31/03/2010	95,343.00
M03060	Quantification of PrP <sup>D</sup> and correlation with infectivity in scrapie infected sheep tissues destined for human consumption	Veterinary Laboratories Agency	01/04/2007	31/03/2010	81,402.60
M03061	Assessing ERAF as a potential marker for BSE	University of Edinburgh	01/02/2007	31/08/2008	81,092.00
M03062	Development of a multi-marker live animal diagnostic specific to TSE disease in blood plasma which is not reliant on the presence of PrP <sup>Sc</sup>	University of Edinburgh	01/08/2007	31/07/2010	125,157.00
M03063	Use of fluorescence correlation spectroscopy to detect single prion particles (surface-FIDA)	Heinriche-Heine-University of Duesseldorf	01/11/2007	31/10/2010	117,314.72
M03064	Assessment of the supervision of SRM controls in OTM abattoirs and cutting plants	DNV UK (Det Norske Veritas)	01/01/2008	30/04/2008	20,100.00
M03066	To determine the occurrence and to quantify the level of CNS contamination on bovine head meat after slaughter	University of Bristol	10/11/2008	31/12/2009	38,629.20
					Total: £1,562,867.24

## Radioactivity in Food

### A05 – Food Irradiation: Research in Support of Detection Tests and the Provision of Scientific Advice

Programme Contact – Mr Terry Donohoe, Tel: 020 7276 8709

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Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
A05010	Optimisation of the photostimulated luminescence (PSL) detection tests to detect irradiated dietary supplements	SUERC	01/03/2008	27/02/2009	33,966.00
					Total: £33,966.00

### R04 – Radioactivity In Food

Programme Contact – Mr Terry Donohoe, Tel: 020 7276 8709

Email: terry.donohoe@foodstandards.gsi.gov.uk

Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
N08021	Total Diet Study	BMRB	01/01/2008	31/12/2009	27,740.00
N08022	Total Diet Study	BBSRC – Institute of Food Research	01/01/2008	31/12/2009	51,565.54
N08025	Storage of Total Diet Study samples	LGC	01/04/2008	31/03/2010	6,890.00
R04003	Investigation of the transfer of radioactivity from seaweed to terrestrial foods – radiological assessment and implications for future monitoring.	Health Protection Agency	01/09/2006	01/09/2009	16,500.00
R04005	Further Development of ADMSSTAR, an ADMS-based Short term Accidental Response Model for the Food Standards Agency	CERC	12/03/2007	30/06/2008	5,000.00
R04006	Investigation of the effects of chemical speciation of sulphur-35 released into the atmosphere on uptake by crops and animals	Nicholson Environmental	01/02/2008	01/08/2008	8,775.00
					Total: £116,470.54

## FSA Scotland

### S04 & S14 FSA Scotland – Research, Surveillance & Monitoring

Programme Contact – Dr Anna Whyte, Tel: 01224 285 119

Email: [anna.whyte@foodstandards.gsi.gov.uk](mailto:anna.whyte@foodstandards.gsi.gov.uk)

Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
S04005	Accessing healthy food in Scotland: A sentinel mapping study of food retailing	University of Edinburgh	01/02/2005	30/09/2008	17,120.00
S14004	Factors associated with geographic and temporal variation in campylobacteriosis infections in humans in Scotland	University of Glasgow	01/08/2006	30/06/2009	96,043.48
S14006	The molecular epidemiology of Scottish <i>Campylobacter</i> isolates from human cases of infection using Multilocus Sequence Typing (MLST)	University of Aberdeen	01/06/2005	30/06/2009	55,237.00
S14008	A survey of Anisakis and Pseudoterranova in Scottish fisheries and the efficacy of current detection methods	University of Stirling	01/07/2005	28/10/2009	7,897.90
S14009	Integrated pest and disease management for high quality protected raspberry production	Department of Environment, Food and Rural Affairs	01/06/2005	01/06/2010	0.00
S14034	Deriving and interpreting dietary patterns in the Scottish diet: further analysis of the Scottish Health Survey 2003 and Expenditure and Food Survey 2001-2004	Glasgow Caledonian University	16/04/2007	25/08/2008	37,924.00
S14035	Secondary analysis of the Expenditure and Food Survey – comparison of household food and eating out data with the Scottish Dietary Targets and by area of residence	University of Dundee – Ninewells	01/03/2007	30/09/2009	35,172.00
S14036	Risk assessment of the FSAS inshore shellfish monitoring programme based on historical toxin data from 2004-2006	Rowett Research Institute	01/05/2007	03/10/2008	13,110.00
S14037	Determine the distribution of PSP toxins in whole king scallops, and investigate the effectiveness of shucking in the removal of these toxins from the edible tissues	Scottish Association for Marine Sciences (SAMS)	01/07/2007	01/07/2008	12,768.72
S14038	LC-MS profiling of lipophilic toxins in shellfish samples from the 2007/2008 Scottish shellfish monitoring programme	Centre for Environment, Fisheries and Aquaculture Science – Weymouth	28/08/2007	30/04/2008	18,797.57
S14040	Investigation into the levels of environmental contaminants in Scottish marine and freshwater fin fish and shellfish	Food and Environment Research Agency (FERA)	01/01/2008	13/03/2009	129,488.00
S14041	Investigation into the levels of environmental contaminants in Scottish marine and freshwater fin fish and shellfish	Fisheries Research Services – The Marine Laboratory	01/01/2008	30/05/2009	10,418.00

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Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
S14042	Selenium content of Scottish products	Food and Environment Research Agency (FERA)	04/02/2008	27/03/2009	87,745.62
S14043	Distribution of DSP toxins in king scallops ( <i>Pecten maximus</i> ) and the effects of shucking practices on toxin levels	Integrin Advanced Biosystems	01/02/2008	01/10/2008	40,225.00
S14044	Analysis of Alexandrium samples collected as part of the phytoplankton monitoring programme by whole cell fluorescent in situ hybridisation (FISH)	Scottish Association for Marine Sciences (SAMS)	15/08/2008	30/09/2009	14,146.00
S14046	Analysis of red and processed meat purchases in Scotland using representative supermarket panel data	SAC Commercial Ltd	01/10/2008	31/01/2009	25,744.00
S14047	Scottish urinary sodium survey 2009	Scottish Centre for Social Research	01/12/2008	31/03/2010	70,000.00
					Total: £671,837.29

## Food Acceptability and Choice

### N09 – Food Acceptability and Choice

Programme Contact – Mr Jamie Blackshaw, Tel: 020 7276 8935

Email: jamie.blackshaw@foodstandards.gsi.gov.uk

Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
N09018	Using village shops to promote healthier food choices in rural Norfolk	BBSRC – Institute of Food Research	01/10/2003	30/11/2007	1,000.00
N09025	Food choice and changes in body weight and shape after smoking cessation	University of Glasgow	01/09/2007	28/02/2010	141,540.00
N09026	Salt reduction in premium bread: Understanding the influence of physical and chemical properties on stickiness, collapse and open texture	University of Nottingham	30/09/2007	31/10/2008	22,470.00
					Total: £165,010.00

## N14 – Food Choice Inequalities

Programme Contact – Mr Jamie Blackshaw, Tel: 020 7276 8935

Email: jamie.blackshaw@foodstandards.gsi.gov.uk

Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
N14005	A 'smart' lunchbox template intervention	University of Leeds	01/01/2006	31/08/2008	152,782.44
N14008	Middlesbrough on the move: The effectiveness of a community challenge to promote healthy diets and levels of physical activity	University of Durham	08/12/2006	30/09/2009	58,545.50
N14009	Engaging children, young people and their families in a challenge to improve their health	National Children's Bureau	16/02/2007	31/03/2009	151,318.00
N14010	Implementing healthier menus in residential care homes for older people: evaluation of barriers, facilitators and the impact on dietary intake	University of Newcastle	07/01/2008	06/01/2011	185,608.00
					Total: £548,253.94

## Diet and Health

## N02 – Diet and Cardiovascular Health

Programme Contact – Ms Rachel Elsom, Tel: 020 7276 8082

Email: rachel.elsom@foodstandards.gsi.gov.uk

Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
N02035	Comparison of effects of increased whole grain foods on markers of cardiovascular risk	University of Aberdeen	01/01/2005	30/06/2009	40,500.00
N02036	Randomised controlled trial to test the impact of increased consumption of whole grain foods on cardiovascular disease risk (the WHOLEheart study)	University of Newcastle	01/01/2005	31/12/2007	96,308.00
N02038	Effect of tomato-rich diet on markers of cardiovascular risk	University of Aberdeen	01/02/2007	31/01/2011	112,876.67
N02039	Impact of increasing doses of flavonoid-rich and flavonoid-poor fruit and vegetables on cardiovascular risk factors in an 'at risk' group (URFAVS)	University of Reading	01/03/2007	30/09/2010	131,693.00
N02041	Comparative effects of EPA and DHA on vascular function and risk factors for cardiovascular disease	University of London – KCL	14/01/2008	31/12/2010	344,184.00
N02042	The dose response effect of fruit and vegetables on insulin resistance in healthy participants who are overweight and at high-risk of cardiovascular disease (CVD): a randomised controlled trial	University of Ulster	01/03/2008	31/08/2011	313,986.00
					Total: £1,039,547.67

## N05 – Nutritional Status and Function Research

Programme Contact – Dr Elaine Stone, Tel: 020 7276 8996

Email: elaine.stone@foodstandards.gsi.gov.uk

Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
N05057	Effects of a mixed diet intervention versus folic acid supplement on folate status and cardiovascular disease (CVD) risk factors in healthy adults	BBSRC – Institute of Food Research	01/01/2005	31/07/2008	135,806.00
N05061	An investigation of the functional significance of marginal riboflavin status in young women	University of Sheffield	01/01/2006	31/12/2008	130,040.00
N05062	2 year longitudinal study of dietary and sunlight influences on vitamin D status in a well-characterised population of postmenopausal women at 57°N	University of Aberdeen	01/11/2005	31/03/2009	216,590.00
N05063	Dietary requirements for vitamin D: An investigation of the relative significance of dietary intake and sunlight on vitamin D status in adolescents and adults	University College, Cork	01/01/2006	31/12/2008	188,428.00
N05064	Interaction between diet and sunlight exposure, effect on vitamin D status, functional markers of calcium metabolism and skeletal integrity: a comparative study between two diverse climatic zones	University of Surrey	01/11/2005	30/06/2009	139,134.00
N05065	Assessing the impact of escalating fish oil consumption in different cell types: Implications for UK fatty acid status and dietary recommendations	Medical Research Council – HNR	01/01/2006	30/09/2009	26,408.00
N05066	Dose response relationship between n-3 PUFA supply and n-3 PUFA content of transport, storage and functional pools in humans	University of Southampton	01/01/2006	31/08/2009	36,068.00
N05067	Effect of fruit and vegetable consumption on immune function in the elderly: a randomised controlled trial	Queens University Belfast	01/10/2005	31/08/2009	111,989.00
N05068	Effect of a dietary intervention on functional immune status in the elderly	University of Sheffield – Northern General Hospital	01/01/2006	31/07/2009	67,689.00
N05071	Maternal, infant and childhood diet: influence on respiratory health and asthma in childhood	University of Southampton	01/01/2007	30/06/2010	67,805.00
N05072	Vitamin B12, cognitive health and neurological function in older people	University of London – LSHTM	01/03/2007	28/02/2011	90,566.00
N05073	Development of metabolomics as novel approach to biological indicators which characterise and quantify dietary exposure	University of Wales Aberystwyth	01/01/2007	31/03/2010	171,411.00
N05074	Validating <i>in vivo</i> biomarkers of colonic carbohydrate and protein fermentation	University of Glasgow	01/07/2007	30/09/2009	167,364.00

Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
N05075	Biomarkers of whole-grain intake; contribution of alkylresorcinols and mammalian lignans to the metabolome	University of Newcastle	01/01/2007	31/12/2009	99,236.00
N05077	Urinary MMA revisited: a biomarker of B12 status applicable to large surveys	University of Sheffield	01/01/2008	31/03/2011	96,264.00
N05078	Investigation of holoTC, the active component of circulating vitamin B12, as a sensitive marker of dietary intake	Trinity College, Dublin	01/10/2007	31/01/2009	78,731.56
N05079	Effect of 1 year vitamin D intervention on risk of cardiovascular disease: a randomised controlled trial at 57°N	University of Aberdeen	01/03/2008	31/08/2011	217,640.00
N05081	Vitamin D status and associated health outcomes: Towards an evidence basis for defining vitamin D status sufficient to reduce risk of chronic disease	University College, Cork	01/03/2008	31/10/2009	89,125.00
					Total: £2,130,294.56

## N12 – Diet and Colonic Health

**Programme Contact – Dr Elaine Stone, Tel: 020 7276 8996**

**Email: [elaine.stone@foodstandards.gsi.gov.uk](mailto:elaine.stone@foodstandards.gsi.gov.uk)**

Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
N12012	Gastro-intestinal health with special emphasis on reduction of risk of colon cancer and inflammatory bowel disease (FishGastro)	BBSRC – Institute of Food Research	01/01/2004	31/12/2008	48,960.00
N12013	Further development of a non-invasive biomarker to monitor gastro-intestinal health with special emphasis on reduction of risk of colon cancer (BIOMICS)	University of Friedrich-Schiller	01/09/2004	31/12/2009	29,980.67
N12014	Faecal methylation, gene expression and disease outcome in people consuming fish	BBSRC – Institute of Food Research	01/10/2004	30/09/2008	48,917.00
N12015	Validation of novel diet-related biomarkers of early colorectal neoplasia – use of proteomic technology and identification of mitochondrial DNA mutations	University of Newcastle	01/01/2005	31/03/2009	128,347.00
N12017	Protein acetylation as a diet-modifiable biomarker of colorectal cancer risk	University of Sheffield – Northern General Hospital	01/07/2006	31/12/2009	37,632.00
					Total: £293,836.67

## Dietary Surveys and Food Composition

### N08 – Dietary Surveys and Food Composition (Research)

Programme Contact – Mrs Gillian Swan Tel: 020 7276 8912

Email: gillian.swan@foodstandards.gsi.gov.uk

Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
N08027	Portion size assessment tools for use with children – Further development and validation	University of Newcastle	01/07/2007	30/04/2009	202,428.78
N08028	Informed systematic review and critical comparison of analytical methods for the quantification of blood folate status in the population	Rowett Research Institute	29/10/2007	07/07/2008	36,092.83
					Total: £238,521.61

### N10 – Dietary Surveys and Nutrients in Food (Surveillance)

Programme Contact – Mrs Gillian Swan, Tel: 020 7276 8912

Email: gillian.swan@foodstandards.gsi.gov.uk

Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
N10036	National Diet and Nutrition Survey rolling programme	National Centre for Sensor Research	01/08/2006	31/03/2013	2,824,084.00
N10039	Nutrient analysis survey of biscuits, buns, cakes and pastries	BBSRC – Institute of Food Research	01/06/2008	31/03/2009	121,889.40
					Total: £2,945,973.40

## Food Additives

### A01 – Food Additives

Programme Contact – Dr James Ridsdale, Tel: 020 7276 8559

Email: james.ridsdale@foodstandards.gsi.gov.uk

Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
A01060	Development and validation of a method for the analysis of antioxidants in foods	Leatherhead Food International	01/08/2006	31/08/2009	56,703.00
A01066	Survey to determine the levels of benzoates and sorbates in soft drinks marketed in the UK	RSSL	01/12/2007	07/07/2008	15,389.11
A01067	Development of methods to quantitatively extract biologically active principles from foods, flavourings and herbs and spices	Food and Environment Research Agency (FERA)	01/01/2008	31/08/2009	26,018.20
A01068	Review of the estimated intake of nitrates and nitrites from consumption of cured meats in the UK	Durham County Council	01/01/2008	31/08/2009	16,506.98
A01073	Survey on the consumption of cinnamon-containing foods and drinks by the UK population	University of Leeds	16/02/2009	16/02/2010	31,923.25
					Total: £146,540.54

## Novel and GM Foods

### G03 – Safety Assessment of Novel and GM Foods

Programme Contact – Dr David Jefferies, Tel: 020 7276 8573

Email: david.jefferies@foodstandards.gsi.gov.uk

Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
G03012	Development of unified data models and data pre-processing strategies and the generation of meaningful, standardised statistical analyses of metabolome variability in crop plants	University of Wales Aberystwyth	01/12/2005	31/12/2008	154,637.50
G03019	An investigation of the use of MudPIT as a tool for the separation and quantification of proteins for GM crop safety assessments	University of London – Royal Holloway	01/01/2006	30/06/2009	109,999.52
G03022	Refinement of GMO screening methods by combining existing multiplex PCR approaches with lab-on-a-chip capillary electrophoresis endpoint detection	CCFRA	11/09/2006	03/11/2008	38,400.00
G03026	Development of a standard, validated procedure for the isolation of transgene flanking regions in GM crops and detailed analysis of transgene insertion	BBSRC – John Innes Centre	22/01/2007	31/01/2009	100,000.00
G03029	Determination of inauthentic protein glycosylation in transgenic plants	BBSRC Rothamsted Research	01/03/2007	27/02/2009	100,903.40
G03030	Quantitation Using Informative Zeros (QUIZ): Part 2 – Application for testing GMOs	National Institute of Agricultural Botany	02/01/2008	31/10/2008	129,199.60
G03031	Factors influencing transgene survival and transfer in the rumen	Rowett Institute of Nutrition and Health	01/03/2008	03/01/2011	67,952.00
					Total: £701,092.02

## Food Authenticity

### Q01 – Food Authenticity (Research)

Programme Contact – Dr Sophie Rollinson, Tel: 020 7276 8045

Email: [sophie.rollinson@foodstandards.gsi.gov.uk](mailto:sophie.rollinson@foodstandards.gsi.gov.uk)

Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
Q01098	TRACE – Tracing the origin of food	BBSRC – Institute of Food Research	02/01/2005	30/04/2008	18,090.98
Q01102	Metabolomic approach to identification of robust markers for the detection of MRM/MSM in meat products	University of London – Royal Holloway	24/10/2005	31/07/2008	73,311.75
Q01104	A proteomic approach to the determination of meat species within a mixed meat product	University of London – Royal Holloway	01/04/2005	31/07/2008	50,311.11
Q01105	Proteomic detection and quantification of offal	University of Nottingham Trent	01/09/2006	31/08/2010	73,200.00
Q01110	An evaluation of lectin chip array technology to identify the species of origin of milk used in the production of mozzarella cheese	Leatherhead Food International	01/07/2006	30/12/2009	32,092.00
Q01111	Evaluation of DNA based methods for fruit juice authenticity using lab-on-a-chip capillary electrophoresis endpoint detection	CCFRA – Campden and Chorleywood Food Research Association	01/12/2006	30/05/2008	3,705.86
Q01114	Evaluation of DNA based methods for fruit juice authenticity using lab-on-a-chip capillary electrophoresis endpoint detection	Leatherhead Food International	01/11/2006	30/11/2008	36,081.02
Q01117	Measurement of animal based ingredients in composite imported foods to determine whether health checks are necessary	CCFRA – Campden and Chorleywood Food Research Association	01/01/2007	30/11/2008	12,818.98
Q01120	Measurement of animal based ingredients (milk, egg and crustaceans) in composite imported foods	Leatherhead Food International	01/02/2007	31/05/2008	15,205.51
Q01121	TRACE –Tracing Food Commodities in Europe	Food and Environment Research Agency (FERA)	01/04/2007	31/12/2009	54,938.40
Q01122	Improve the existing method to determine cocoa solids in chocolate by optimising the measurement of theobromine, and determining the theobromine content in a suitable range of commercial cocoa nibs used in chocolate marketed in the UK. Write SOPs for the improved determination of cocoa solids in chocolate	Durham County Council	01/04/2008	31/10/2009	44,268.00
Q01123	Confirming the origin of British beef using multi-isotope and multi-element analysis	BBSRC – Institute of Food Research	03/12/2007	31/01/2010	86,446.78

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Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
Q01124	Assessing the origin of wine using existing compositional information	Food and Environment Research Agency (FERA)	01/12/2007	31/05/2009	39,302.00
Q01126	TRACE –Tracing Food Commodities in Europe	BBSRC – Institute of Food Research	01/04/2007	02/02/2010	20,993.40
Q01127	Identification of an internal isotopic reference for palm to allow detection of palm sugar adulteration with cane sugar	BBSRC – Institute of Food Research	13/10/2008	31/03/2009	12,664.00
Q01128	Development of markers for potato genotyping for use in the agilent bioanalyser	National Institute of Agricultural Botany (NIAB)	01/01/2009	31/07/2009	18,000.00
Q01129	The development and validation of DNA marker methods for the verification of meat from wild boar	Food and Environment Research Agency (FERA)	01/01/2009	30/09/2009	10,500.00
Q01130	Verification of meat from traditional cattle and pig breeds using SNP DNA markers	Gen-Probe Life Sciences Limited	01/10/2008	30/11/2010	29,000.00
					Total: £630,929.79

## Improved Methods of Analysis

### E01 – Improved Methods of Analysis

Programme Contact – Dr Roger Wood, Tel: 01603 624 555

Email: roger.wood@foodstandards.gsi.gov.uk

Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
E01078	Determination of dietary carbohydrate as the sum of chemically identified components	Englyst Carbohydrates Research and Services Ltd	01/10/2005	31/03/2009	37,964.40
E01082	Assessment and comparison of available methods of analysis for the determination of gluten	CCFRA	01/12/2006	31/03/2009	37,346.20
E01084	Specifying performance parameters in single-laboratory validatione	LGC	01/10/2007	01/10/2008	17,195.00
E01085	The uncertainty of microbiological counts on foods due to sample heterogeneity	University of Bristol	01/10/2007	31/03/2009	56,149.20
E01086	Development and single-laboratory validation of method for glucosinolate analysis in food	Food and Environment Research Agency (FERA)	01/10/2007	31/03/2009	64,931.00
E01087	To investigate the statistical distribution of real-time PCR data within a single laboratory	LGC	01/07/2007	31/03/2009	24,458.51
E01088	Assessment of the contribution of sampling to total measurement uncertainty estimations	LGC	01/01/2009	31/12/2010	20,601.00
E01089	An evaluation of the methodological approaches for the determination of different carbohydrate fractions in foods	LGC	02/01/2009	31/12/2010	19,493.00
					Total: £278,138.31

## Food Law Enforcement

### E03 – Food Law Enforcement

Programme Contact – Dr Alan Curran, Tel: 020 7276 8361

Email: alan.curran@foodstandards.gsi.gov.uk

Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
E03010	Evaluation of effectiveness and cost benefit of two different enforcement regimes in meat plants	ADAS Consulting	01/08/2006	31/10/2009	14,040.00
E03012	Food law enforcement – UK survey of food premises 2007	ADAS UK Ltd	01/08/2007	30/04/2008	10,640.10
E03013	Local Authority review	PA Consulting Group	23/02/2009	31/03/2009	24,925.00
					Total: £49,605.10

## Social Science

### Social Science

Head of Profession for Social Science – Dr Jane Barrett, Tel: 020 7276 8263

Email: jane.barrett@foodstandards.gsi.gov.uk

Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
X03001	Quarterly Public Attitudes Tracker	TNS Global	01/06/2008	30/04/2009	36,675.00
X03002	An evidence review of public attitudes to emerging food technologies	Brook Lyndhurst	01/09/2008	28/02/2009	24,220.00
X03003	Public Attitudes to Food Issues survey	GfK NOP	01/07/2008	28/02/2009	90,000.00
X04001	Consumption of peel by children under 6, snapshot survey using omnibus provider	Consortium (unspecified)	01/02/2009	30/04/2009	4,450.00
X05001	Consumer response to nutritional information available in catering outlets scoping research	Navigator	01/11/2008	28/02/2009	80,930.00
X05002	Tracking survey for saturated fat campaign, pre and post wave questions using omnibus	TNS Global	01/01/2009	30/04/2009	18,290.00
A01073	Survey on the consumption of cinnamon – containing foods and drinks by the UK population	University of Leeds	16/02/2009	16/02/2010	31,923.25
B13008	An investigation into the attitudes and behaviours of consumers and caregivers in the preparation, handling, storage and feeding of powdered infant formula inside and outside the home	University of Wales Institute Cardiff	01/05/2007	30/04/2009	28,113.60
N08027	Portion Size Assessment Tools for use with Children – Further development and validation	University of Newcastle	01/07/2007	31/03/2009	202,428.78

Project	Project Title	Organisation	Start Date	End Date	Actual Expenditure in FY 2008/2009 (£)
N09018	Using village shops to promote healthier food choices in rural Norfolk	BBSRC – Institute of Food Research	01/10/2003	30/11/2007	1,000.00
N09025	Food choice and changes in body weight and shape after smoking cessation	University of Glasgow	01/09/2007	28/02/2010	141,540.00
NI4005	A 'smart' lunchbox template intervention	University of Leeds	01/01/2006	31/08/2008	152,782.44
NI4008	Middlesbrough on the Move: The effectiveness of a community challenge to promote healthy diets and levels of physical activity	University of Durham	08/12/2006	30/09/2009	58,545.50
NI4009	Engaging children, young people and their families in a challenge to improve their health	National Children's Bureau	16/02/2007	31/03/2009	151,318.00
NI4010	Implementing healthier menus in residential care homes for older people: evaluation of barriers, facilitators and the impact on dietary intake	University of Newcastle	07/01/2008	06/01/2011	185,608.00
S04005	Accessing healthy food in Scotland: A sentinel mapping study of food retailing	University of Edinburgh	01/02/2005	30/09/2008	17,120.00
S14034	Deriving and interpreting dietary patterns in the Scottish diet: further analysis of the Scottish Health Survey 2003 and Expenditure and Food Survey 2001-2004	University of Glasgow Caledonian	16/04/2007	25/08/2008	37,924.00
S14035	Secondary analysis of the Expenditure and Food Survey – comparison of household food and eating out data with the Scottish Dietary Targets and by area of residence	University of Dundee – Ninewells	01/03/2007	30/09/2009	35,172.00
T07057	Evaluation of the effectiveness of the best practice guidance on allergen management and consumer information	COI Communications	15/08/2008	31/12/2008	57,776.88
T07059	Consumer understanding of new labelling terms for foods marketed for people with gluten intolerance	COI Communications	18/02/2009	30/04/2009	36,855.00
					Total: £1,392,672.45

## Annexe E – Tables of co-funded projects

**Table 1**  
**Projects co-funded by the Agency under BBSRC Government Partnerships Award Scheme\***

Code	Project Title	Start Date	End Date
B15012 B15013	The influence and therapeutic use of bacteriophage against <i>Campylobacters</i> entering the human food chain	01/02/2005	31/10/2008
B15015 B15016 B15017	Host acute stress responses and the regulation of <i>C. jejuni</i> virulence in the avian gut	01/11/2006	31/01/2010
B15021 B15022	A nitric oxide responsive network in <i>Campylobacter jejuni</i> its role in intracellular survival and resistance to nitrosative stresses	01/03/2006	31/05/2010
B15027 B15028	Molecular mechanisms underlying the interaction of <i>Salmonella enteritidis</i> with the hen oviduct and survival in eggs	13/03/2008	31/08/2011
C03042	Genetic and agronomic approaches to reducing acrylamide formation in food derived from potato and cereals	10/10/2004	30/09/2007
M03038	Development of rapid high-throughput pre-clinical diagnostic tests for TSEs	01/10/2005	30/09/2008

**Table 2**  
**Co-funded projects in the EU framework programmes 5, 6 and 7**

Code	Title	Full Title	Start Date	End Date
C03009	CONTROLMYCOTOXFOOD	The application of HACCP techniques to the management of fusarium toxins in cereals	01/07/2000	31/03/2003
E01048	FOOD-PCR	Validation and standardisation of diagnostic polymerase chain reaction for detection of foodborne pathogens	01/04/2000	31/03/2003
M03017	REMCORD	EU demonstration project REMCORD	01/04/2001	30/09/2002
M03022	SAFESTUN	Review of current stunning methods for cattle and sheep that avoid the risk of dissemination of brain particles into the blood and carcass and maintain good welfare and operator safety standards	01/12/2002	31/03/2003
M03023	SRMTEST	The development of immuno tests for SRM	18/07/2003	31/12/2005
M03035	FIATEST	Optimisation and validation of the ICE test: the first non-invasive, live animal, pre-clinical test for TSEs	01/04/2003	31/03/2006
N05025	OSTEODIET	Optimal nutrition towards osteoporosis prevention: Impact of diet and gene-nutrient interactions on calcium and bone metabolism	01/02/2000	31/01/2003
Q01031	COFAWS	Development and validation of methodology for the confirmation of the origin of wild and farmed salmon and other fish	01/09/2001	31/08/2004
Q01048	–	Determination of authenticity of provenance of high quality tea products through the use of DNA fingerprint profiles	01/04/2001	31/03/2004

Code	Title	Full Title	Start Date	End Date
Q01059	MEDEO	Development and assessment of methods for the detection of adulteration of olive oil with hazelnut oil	01/07/2001	30/06/2004
Q01062	GC IRMS	Gas chromatography coupled to stable isotope ratio mass spectrometry (GC-IRMS) to check food and beverage authenticity – suitable reference materials to ensure measurement inter-comparability	01/07/2001	30/06/2003
Q01063	WINE DB	Establishing a data bank for analytical parameters for wines from Third countries	01/01/2002	31/12/2004
Q01091	OLIV-TRACK	Olive oil origin and traceability	01/08/2003	31/07/2006
T01011	EUROSLICES	New developments of cultured precision-cut tissue slices for studies of organ pharmaco-toxicology	01/08/1998	31/03/2002
C03043	HEATOX	Heat generated food toxicants: identification, characterisation and risk minimisation	01/11/2004	31/10/2006
NI2012	SEAFOODPLUS	Gastro-intestinal health with special emphasis on reduction of risk of colon cancer and inflammatory bowel disease	01/04/2004	31/12/2008
Q01097/098/121/126	TRACE	TRACE – Tracing food commodities in Europe	01/01/2005	02/02/2010
T01042	QALIBRA	Quality of life – integrated benefit and risk analysis: Web-based tool for assessing food safety and health benefits	01/08/2006	30/09/2009
T07046	EUOPREVALL	The prevalence of food allergy and weaning practices in a birth cohort of UK infants	01/08/2005	31/10/2009
B18027	VITAL	Integrated monitoring and control of foodborne viruses in European food supply chains	01/04/2008	31/03/2011
A03071	FACET	Flavouring, additives and food contact material exposure task	01/09/2008	31/08/2012

**Key:**

Projects co-funded in EU Framework Programme 5
Projects co-funded in EU Framework Programme 6
Projects co-funded in EU Framework Programme 7

Table 3

## Other co-funded projects

Code	Co-funder(s)	Full Title	Start Date	End Date
B14016	BfR (Germany), Ministry of Agriculture (NL), Friedrich Loeffler Institute	The role of commensural microflora of animals in the transmission of Extended Spectrum Beta-lactamases (ESBLs)	01/04/2009	31/03/2011
B15018	Defra	National flock prevalence survey for <i>Campylobacter</i>	01/10/2006	31/05/2010
B15025	Defra	A critical review of interventions and strategies (both biosecurity and non-biosecurity) to reduce <i>Campylobacter</i> on the poultry farm	17/03/2008	15/11/2008
B18021	DH, NHS	The second study of infectious intestinal disease in the community – determining disease burden and calibrating national surveillance data in the United Kingdom	01/04/2006	03/03/2010
C01031	Defra, DH, HSE	Pilot studies to explore alternative methods for recruitment, collection, storage and management of an archive of breast milk samples	09/01/2000	31/03/2002
C01034/ S02003	EA, Defra, NAW, EHS, SNIFFER	UK soil and herbage pollutant survey	18/12/2000	31/08/2003
C03041	Defra	Fusarium mycotoxins in the cereal food chain	01/02/2005	30/06/2005
C04022	HGCA, AICC, Aventis, BASF, Bayer, Xeneca	Investigation of levels of Fusarium mycotoxins in UK wheat production	01/10/2001	30/06/2006
C04033	HGCA	Mycotoxins in barley and oats – sample collection	01/05/2002	31/05/2006
C05032	Defra, EA, DOE(NI), SEPA, NRPB	Recovery handbook	01/01/2003	31/03/2005
E01061	DTI (VAM)	Recommended methods for the extraction and ICP-MS determination of tin in foods	01/11/2003	31/03/2004
E03002	Advantage W Midlands	The identification, analysis and potential remedy of the problems experienced by SMEs in complying with food law requirements	01/10/2002	31/03/2003
ER1006	EA, HSE	Radiological assessments by 'habits' survey	01/04/2007	31/03/2012
M01024	Defra	Survey for <i>Trichinella</i> in wild foxes and boar	01/10/2002	01/04/2004
M01047	EFSA, Defra	Quantitative microbiological risk assessment on <i>Salmonella</i> in slaughter and breeder pigs	01/01/2008	30/06/2009
M01050	EFSA	Development of harmonised schemes for monitoring and reporting of <i>Echinococcus</i> , <i>Trichinella</i> , <i>Cysticercus</i> and <i>Sarcocystis</i> in animals and foodstuffs in the European Union	01/01/2008	31/12/2008
M03019	Medical Research Council	Identification of blood protein markers for TSE diseases	01/04/2002	31/03/2005
M03026	Norwegian Research Centre	Empirical determination of CNS and its reduction using alternative procedures	01/01/2003	01/02/2006
NI0008/9	DH	National Diet and Nutrition Survey: Adults aged 19-64 years, mainstage survey	01/04/2000	31/12/2003
NI01036/7	DH, Safefood, DHSSPS	NDNS rolling programme	24/04/2006	31/03/2013
N02013	Unilever, Safeways	Evaluate the effects of dietary exchange of individual saturated fatty acids on homeostasis & vascular function	01/09/1999	31/08/2002

Code	Co-funder(s)	Full Title	Start Date	End Date
N02034	St Georges MS, CASH	Effects of modest salt reduction on blood pressure and target organ damage in patients with untreated essential hypertension	01/01/2004	20/06/2007
N05022	NZ Health Research Council	Regulation of iron absorption and effects of habitual diet on iron stores in heterozygote men with HFE mutations	01/04/2000	31/03/2003
N05023	WCRF	Influence of genetic mutations on iron status linked to dietary intake: from the UK Women's Cohort Study	01/04/2000	31/03/2003
DfES school meals	DfES	School meals research project	01/05/2003	30/04/2004
P01008	National Research Council, Canada	Development and certification of tissue and calibration solution CRMs for PSP toxins	20/02/2008	24/03/2009
R01041	EA	Compilation of data relevant to the impact of radioactive waste discharges to inland waters	01/04/2000	31/03/2003
R01051	IPSN (France)	RADFLUX	01/09/2000	01/09/2003
R04003	SEPA, Health Protection Agency (In kind)	Sea-to-land transfer of radionuclides, via seaweed, in the Western Isles	01/09/2006	31/12/2008
S01023	Scottish Executive	Scottish <i>Campylobacter</i> PWS study	01/03/2004	31/03/2006
S02018	Seafish Authority	Scallop Portion Size Study	01/08/2003	30/12/2003
S14031	Scottish Executive, SEPA	SARF 013 – Risk factors in shellfish harvesting areas	01/12/2005	31/12/2007
S14034	Scottish Government	Secondary analysis of Scottish dietary data from SHS	16/04/2007	31/08/2008
S14035	Scottish Government	Secondary analysis of Scottish dietary data from EFS	01/03/2007	31/10/2009
S14047	Scottish Government	Scottish urinary sodium survey 2009	01/12/2008	31/03/2010
SPINI23	Scottish Government	Research development workshops	01/03/2008	31/10/2008
T05028	Medical Research Council, WCRF, EPIC, Singapore Govt	Dietary and biomarker prospective study of phytoestrogens in breast and prostate cancer	01/10/2004	30/09/2007
T07051	Medical Research Council	Randomised controlled trial of early introduction of allergenic foods to induce tolerance in infants	15/01/2008	30/09/2014
RCU005	ERANET	Foodborne zoonoses – <i>Campylobacter</i> and <i>E. coli</i> – a network project	01/05/2007	30/04/2008
**	NPRI (round 1)	Early origins of obesity: developing strategies for intervention	2006	2008
**	NPRI (round 1)	Healthforce – development and feasibility of a peer-led bodyweight and lifestyle management programme	2006	2007
**	NPRI (round 1)	Early emergence of ethnic differences in chronic disease risk: the contribution of diet and physical activity	2006	2009
**	DH	Effectiveness of controls on infant formula and follow-on formula	01/10/2008	01/07/2009

\* Where there is more than one project code, each code represents a different workstream

\*\* Not applicable – managed by other partners

## Glossary of co-funders

AICC	Association of Independent Crop Consultants
BFR	Federal Institute for risk Assessment – Germany
CASH	Consensus Action on Salt Health
Defra	Department for Environment, Food and Rural Affairs
DfES	Department for Education and Skills
DH	Department of Health
DH SSPH	Department of Health, Social Services and Public Safety, Northern Ireland
DoE (NI)	Department of Environment, Northern Ireland
DTI (VAM), now BIS	Department of Trade and Industry (Valid Analytical Measurement Programme), now Department for Business, Innovation and Skills
EA	Environment Agency
EFSA	European Food Safety Authority
EHS	Environment & Heritage Services, Northern Ireland
EPIC	European Prospective Investigation into Cancer and Nutrition
ERANET	Networking of national research programmes in the European Research Area
HGCA	Home Grown Cereal Authority
HPA	Health Protection Agency
HSE	Health and Safety Executive
IPSN	Institute of Protection and Nuclear Safety
MRC	Medical Research Council
NAW	National Assembly Wales
NHS	National Health Service
NPRI	Medical Research Council – National Prevention Research Initiative
NRPB	National Radiological Protection Board
NZHRC	New Zealand Health Research Council
SEPA	Scottish Environment Protection Agency
SNIFFER	Scotland and Northern Ireland Forum for Environmental Research
St George's MS	St George's Hospital Medical School, now St George's, University of London
WCRF	World Cancer Research Fund

## Annexe F – Projects funded under the Postgraduate Scholarship Scheme

Code	Project title	Duration	Institution	Main supervisor	Scholar
PG1001	Fruit and vegetable intake in relation to postmenopausal bone health	01/10/2004 to 30/09/2007	University of Aberdeen	Dr Helen Macdonald	Miss Antonia Hardcastle
PG1002	Tracking of and changes in food choice and BMI: evidence, influences and attributions	01/10/2004 to 30/09/2007	University of Newcastle	Dr Ashley Adamson	Miss Alison Hossack
PG1003	Diet enrichment with vitamin E containing food; effect on lipid profile and vascular function	01/10/2004 to 30/09/2007	Aston University	Dr Helen Griffiths	Miss Khujesta Choudhury
PG1005	Compilation, validation and implementation of an anti-inflammatory diet	01/10/2004 to 30/09/2007	Rowett Research Inst	Dr Garry Duthie	Mr Adrian Wood
PG1006	Explaining the urban and rural differences of <i>Escherichia coli</i> O157 human infection in Grampian	01/10/2004 to 30/09/2007	University of Aberdeen	Dr Norval Strachan	Miss Olivia Solecki
PG1007	Potential of <i>Escherichia coli</i> serotype O26 strains from humans and cattle to cause human infections	01/01/2005 to 31/12/2007	Scottish Agricultural College	Dr John Christopher Low	Miss Tracy Rosser
PG1008	Immune responses by pregnant and non-pregnant women and neonates to hens' egg and cows' milk allergens	01/10/2005 to 30/09/2008	University of Southampton	Dr Jane Lucas	Miss Claire Powell
PG1009	Glycosylation of <i>Campylobacter</i> iron transport systems and the role of host stress hormones	01/10/2005 to 30/10/2008	University of Leicester	Professor Julian Ketley	Mrs Susan L Hardy
PG1010	Bioinformatics for the molecular epidemiology and surveillance of <i>Listeria monocytogenes</i> infections	01/12/2005 to 30/11/2008	Health Protection Agency	Dr Jonathan Green	Mr William P Bellamy
PG1012	Enhanced nutrition communications – making the best of food labels	01/12/2006 to 30/11/2009	University of Dundee	Professor Annie Anderson	Ms Dionne Mackison
PG1013	Young adults and healthy lifestyles: food, alcohol and exercise – a total lifestyle approach	01/10/2006 to 30/09/2009	University of Newcastle	Professor Christopher Ritson	Ms Emma Giles
PG1014	Analysis of co-regulatory approaches to food safety and quality	01/02/2007 to 31/01/2010	University of Kent	Dr Andrew Fearnle	Mr Mohamud Hussein
PG1015	A study of consumer behaviour and associated change drivers in the consumption of fruit and vegetables in children	01/01/2007 to 31/12/2009	University of Reading	Professor W Bruce Traill	Ms Eileen Berrisford
PG1016	Automated mining and model interpretation using metabolomics data representing food composition	01/10/2007 to 30/09/2010	University of Wales, Aberystwyth	Professor John Draper	Mr Stuart Snowden
PG1017	Evaluation of quinoa ( <i>Chenopodium quinoa Willd.</i> ) in coeliac disease	01/10/2007 to 30/09/2010	Kings College, London	Professor Paul Ciclitira	Mr Victor Zevallos
PG1018	Effective diagnosis of allergic reactions to food, based on mast cell and basophil activation	19/11/2007 to 18/11/2010	University of Southampton	Dr Andrew Walls	Miss Hilary Whitworth

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Code	Project title	Duration	Institution	Main supervisor	Scholar
PG1019	The control of MDR <i>Salmonella</i> Typhimurium in the pig by dietary modification	01/12/2008 to 30/11/2011	Veterinary Laboratories Agency	Dr Roberto La Ragione	Ms Monika Tchorzewska
PG1020	The development of novel molecular techniques to assess the risk produced by norovirus in shellfish	01/01/2009 to 31/12/2011	University of Southampton	Professor Ian N. Clarke	Mrs Simone Hadley
PG1021	Pre- and post-harvest bacteriophage control of <i>Salmonella</i> in pigs	01/01/2009 to 31/12/2011	University of Nottingham	Professor Ian Connerton	Mr Steven Hooton

Projects PG1004 and PG1011 were not funded.

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Feedback

This year a limited number of hard copies were published with most people receiving a CD with enhanced functionality. In order to determine if the approach was successful it would be appreciated if you could complete the questions below:

What is your background (please tick more than one if appropriate)?

Food consumer	<input type="checkbox"/>	Librarian	<input type="checkbox"/>
Food scientist	<input type="checkbox"/>	Natural Scientist	<input type="checkbox"/>
Research contractor	<input type="checkbox"/>	Social Scientist	<input type="checkbox"/>
Academic	<input type="checkbox"/>	Non-UK organisation	<input type="checkbox"/>
Government organisation	<input type="checkbox"/>	Other (please specify)	<input type="checkbox"/>

Which section(s) of the report did you read?

	In full	Selected extract
Trends and the science behind food risks	<input type="checkbox"/>	<input type="checkbox"/>
Science and decision making	<input type="checkbox"/>	<input type="checkbox"/>
Science strategy	<input type="checkbox"/>	<input type="checkbox"/>
What does the future hold?	<input type="checkbox"/>	<input type="checkbox"/>

Were you happy with the level of detail?

There was insufficient detail	<input type="checkbox"/>
The level of detail was adequate	<input type="checkbox"/>
There was too much detail	<input type="checkbox"/>

Finally, if there are any improvements that you would like to see, or any changes that you feel would significantly improve the report please tell us here.