

### Details of grant awards under DAFM's 2011 Call for Research Proposals

No.	Project Title	Principal Investigator	Institutions Funded	Award Amount €
1	Formulation and Design for Food Structure and Stability	Prof Yrjo H. Roos	UCC, Teagasc	649,600
2	Translating fundamental research on Listeria monocytogenes for the benefit of multi-sectoral ready-to-eat food industry	Dr Kieran Jordan	Teagasc, UCC, UL, NUIG, UCD, CIT	1,279,761
3	Smart packaging systems containing novel optochemical O <sub>2</sub> and CO <sub>2</sub> sensors for the food industry	Prof Dimitri Papkovsky	UCC, QUB	444,493
4	Irish meat & eggs: their fundamental role in promoting vitamin D nutrition and contribution to health & wellbeing	Prof Kevin Cashman	UCC, UCD	484,562
5	Novel prebiotics from plant-derived sugars using bifidobacterial enzymes	Dr Douwe van Sinderen	UCC, Teagasc	234,250
6	Development of consumer accepted low salt & low fat Irish traditional processed meats	Dr Joe P Kerry	UCC, Teagasc	499,721
7	Delivering processed meat products with health benefits	Prof Frank Monahan	UCD, Teagasc, UCC	598,950
8	Decoupling pH & Ionic Effect in Protein Super-Concentrates	Dr Andre Brodkorb	Teagasc, NUIM, TCD	401,700
9	Manufacture, application & assessment of smart packaging concepts consisting of novel nanoparticle technologies (metal & non-metal based) in conventional food packaging systems	Dr Joe P Kerry	UCC, UCD	499,978
10	Translation of pharmaceutical drug delivery to nutraceutical delivery using invitro & in vivo techniques	Dr Jesus Frias	DIT, UCD	477,815
11	Exploration of Irish meat processing streams for recovery of high value protein based ingredients for food & non food uses	Dr Anne Maria Mullen	Teagasc, UCC, UCD, NUIG, ITT	1,433,532
12	Enhancement of texture, flavour & nutritional value of meat products for older people	Dr Ruth Hamill	Teagasc, & UCC	491,306

13	Improving the eating quality of Irish Pork	Dr Paul Allen	Teagasc, UCC	444,908
14	Technologies for the enrichment & recovery of novel bioactive ingredients from plant food processing wastes	Dr Dilip Rai	Teagasc, UCD, DIT	781,483
15	An investigation of Verocytotoxigenic E. Coli super-shedding in beef & dairy cattle & the factors underpinning human virulence potential & strain emergence as a result of vt phage transduction	Dr Geraldine Duffy	Teagasc, UCD, Cork Co Council	943,566
16	Innovative solutions for quality & safety improvement in dairy ingredient manufacture for infant formula	Dr Donal O'Callaghan	Teagasc, UCD	488,376
17	Novel Food Ingredients for the elderly	Dr Paul O'Toole	UCC, Teagasc	500,098
18	Accurate prediction of saleable yield	Dr Paul Allen	Teagasc, ICBF	308,116
19	Novel Pre-treatment regime to enhance the value and quality of vacuum packed retail cuts of beef	Dr Paul Allen	Teagasc, DIT	162,500
20	Antioxidant and anti-inflammatory ingredients for health enhancement in the older population	Prof R.J.(Dick) Fitzgerald	UL, UCC	495,472
21	Enhancing consumer safety by development of a rapid flow cystometric assay for early detection of coagulase positive Staphylococcus aureus in chilled ready meals.	Dr Martin Wilkinson	UL	92,673
22	Marine Compounds to enhance Productivity & health in pigs	Prof John O'Doherty	UCD	99,387
23	Expanding the potential for whey protein based encapsulation	Dr Andre Brodkorb	Teagasc	99,780
24	Smartphone delivered anti-tamper food traceability system based on direct food Data Matrix (DM) printing and change integrity sensors	Prof Shane Ward	UCD	98,749
25	Seaweed extracts to reduce Campylobacter in chickens	Prof Torres Sweeney	UCD	95,195
26	Molecular Biomarkers of Fertility-New Tools for the Cattle Industry	Dr Kieran Meade	Teagasc, TCD, UCD, UL	1,197,447

27	Defining optimal pasture composition and its relationship with management factors in order to maximise dairy and beef productivity, whilst minimising nitrous oxide emissions (urine N output), methane emissions and product taints.	Dr Richard Dewhurst	Teagasc, AFBI, QUB, UCD	610,165
28	Development of ante and post mortem meat inspection of pigs as a welfare diagnostic tool.	Dr Laura Boyle	Teagasc, QUB, UCD, CAFRE	376,672
29	Identifying the Distribution and Extent of Agricultural Land of High Nature Value - (Ideal-HNV)	Dr John Finn	Teagasc, IT Sligo	371,576
30	Classical and Genotypic methods of increasing grassland productivity through breeding	Dr Michael O'Donovan	Teagasc, AFBI	703,472
31	Multi-breed genomic selection in dairy and beef cattle	Dr Donagh Berry	Teagasc, ICBF	376,735
32	Monitoring Pathogen Evolution for sustainable Cropping	Dr Ewen Mullins	Teagasc, UCD, AFBI	759,828
33	Maximising the Genetic Potential of Young Elite Bulls - A Multidisciplinary Approach	Dr Sean Fair	UL, Teagasc, UCD	672,597
34	Crop Quest: New Crop Choices for Irish Growers	Dr Dermot Forristal	Teagasc, UCD	195,782
35	Cereal Improvement through Variety choice understanding Yield Limitations	Dr John Spink	Teagasc, AFBI, UCD	1,342,205
36	Feed evaluation for accurate nutrition	Dr Tommy Boland	UCD, Teagasc,	959,837
37	Modelling for increased grazing management precision on Irish grassland farms	Dr Pat Dillon	Teagasc, CIT, NUIM	363,868
38	Sustainable nitrogen fertiliser use and Disaggregated Emissions of Nitrogen	Dr Karl Richards	Teagasc, AFBI, UCD	640,177
39	Multidisciplinary programme to deliver improved diagnosis, on-farm strategies, and economic drivers for the control of <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> on Irish farms	Prof Stephen Gordon	UCD, Teagasc, CIT, AFBI, QUB	1,496,739

40	Increased environmental efficiency of ruminant production systems through the incorporation of a Life Cycle Assessment into a quality assurance scheme.	Dr Laurence Shalloo	Teagasc, UCD, ICBF	784,554
41	Profitable dry stock enterprise development: Pathways to growth	Dr David Meredith	Teagasc, UCD	188,035
42	Smart Grassland Systems- Innovative Management and Technology Development to Maximise Resource Use Efficiency	Dr Helen Sheridan	UCD, Teagasc, AFBI	633,046
43	Improving the productivity of heavy wet grassland for delivery of Food Harvest 2020	Dr James Humphreys	Teagasc, UCD, TCD,	534,925
44	Strategies for controlling cadmium contamination in Irish Food Production	Dr David Wall	Teagasc, UCD, UCC	803,007
45	Genetic selection for improved milk and meat product quality in dairy, beef and sheep.	Dr Donagh Berry	Teagasc, UCD, ICBF	1,155,396
46	Exploitation of the nutritive properties of safe Irish-grown milled oat and barley varieties as functional ingredients in new healthy food formulations	Dr Eimear Gallagher	Teagasc, UCC, UCD	732,354
47	Profitable production of bull beef to market specification while ensuring optimum quality for the consumer	Dr Aidan Moloney	Teagasc, UCD, UCC, ICBF	1,328,701
48	Mining and Modelling: Animal Rotavirus Epidemiology - (MMARE)	Dr Helen O'Shea	CIT, DCU, UCC	99,868
49	Campylobacter Control on Irish Broiler Farms - (Campy- Control)	Dr Paul Whyte	UCD, Teagasc	367,800
50	Targeted Low Cost solutions for control of salmonella in pig production -	Dr Peadar Lawlor	Teagasc, UCD, WIT	599,845
51	Forestry Management for the freshwater pearl mussel	Dr Norman Allott	TCD	78,558
52	Valuing the Ecosystem Services of Forests in Ireland	Dr Aine Ni Dhubhain	UCD, UCC, Teagasc, UL	201,755
53	Additions and refinements to the Irish forest carbon accounting and reporting tool.	Prof Maarten Nieuwenhuis	UCD, UCC, UL, Teagasc	1,485.708
54	Innovation in Irish Timber Usage	Dr Annette Harte	NUIG, QUB	484,663

55	Critical Biomass Removal on Irish Forest Soils	Dr Thomas Cummins	UCD, UL, Teagasc, NUIG	818,001
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