Nuffield Foundation

Nuffield Foundation Science Bursaries for Schools and Colleges
Appendix to the Annual report for the 2011 Programme

An analysis of projects supported by the
Biotechnology and Biological Sciences Research Council

Projects in BBSRC Research Institutes

From an analysis of the database returns from the Nuffield Regional Coordinators for the 2011 programme, it is possible to identify 18 students who carried out projects in BBSRC sponsored Research Institutes as follows:

Babraham Institute		3 student
John Innes Centre, Norwich		9 students
Rothamsted Research		4 students
The Genome Analysis Centre		1 student
Moredun Research Institute		1 student
	TOTAL	**18 students**

Listed below is a breakdown of the bursary placements offered at each of these institutes:

Babraham Institute

'Investigation into how chromosomes are rearranged during meisosis'
Project supervisor: Dr Jon Houseley

John Innes Centre, Norwich

'Exploiting "heritage" varieties of wheat'
Project supervisor: Chris Ridout (and colleagues)

'Natural variation in seed and organ size in Arabidopsis thaliana'
Project supervisor: Jack Dumenil and Mike Bevan

'What determines when plants flower?'
Project supervisor: Judith Irwin

'Carbohydrates in a click'
Project supervisor: Sergey Nepogodiev and Rob Field

'How plants survive the night'
Project supervisor: Sam Mugford and Alison Smith

'Improving genetic modification techniques for wheat and barley'
Project supervisor: Wendy Harwood (and colleagues)

'New leads in the search for anti-tuberculosis drugs'
Project supervisor: Karl Syson and Stephen Bornemann

‘Effective remedies for slug control: a slimy problem’
Project supervisor: Ian Bedford

‘Understanding how late blight suppresses plant immune systems’
Project supervisor: Stuart King and Mark Banfield

Rothamsted Research

‘Do cereal aphids prefer old or new varieties of wheat’
Project supervisor: Leslie Smart

‘Controllling brassica pests with a trap crop’
Project supervisor: Leslie Smart

‘Disease dynamics data analysis’
Project supervisor: Femke Van den berg

The Genome Analysis Centre

‘Short read sequence service and re-sequencing on Next Generation sequencing platforms’
Project supervisor: Kirsten McLay

Moredun Research Institute

‘Evaluation of the Antibody Response in Sheep to Infection with the Bacterial Pathogen Chlamydia abortus’
Project supervisor: David Longbottom

Projects in Universities
In addition to the above placements in Research Institutes, 55 students also worked alongside researchers funded through BBSRC in universities.

Regional Coordinator	Project Provider	Project title	Supervisor
Birmingham & West Midlands	University of Warwick	Investigating the effects of the application of different volumes of herbicide on the growth of chlamydomonas.	Dr Paul Neve
Birmingham & West Midlands	Universirty of Warwick	The role of Arabidopsis NF-Y transcription factors in abiotic and biotic response of Arabidopsis thaliana	Dr Katherine Denby
Birmingham & West Midlands	University of Birmingham	Structure and interaction of the human phosphatase enzyme	Michael Overduin
Cambridgeshire, Essex, Suffolk	University of Cambridge - Sainsbury Laboratory	Mechanisms by which plants regulate the degree of branching in their shoot systems.	Dr Sally Ward
Cambridgeshire, Essex, Suffolk	University of Cambridge - Department of Biochemistry	Studying structures using either NMR spectroscopy or X-ray diffraction,	Dr Aleksandra Watson
Cambridgeshire, Essex, Suffolk	University of Essex- Department of Biological Sciences	Determination of the ascorbic acid radical kinetic during autoxidation at a high pH in oxygenated and deoxygenated solutions.	Dr Dimitri Svistunenko
Hertfordshire	Open University	Investigation into the CG6744 Gene	Robert Saunders
Merseyside	University of Liverpool	The Effect of Different Concentrations of Bovine Serum Albumin on Thrombin Activity.	Dr Raphael Levy
Merseyside	University of Liverpool	Replication of the Open Reading Frame Gene Deleted Murine Gammaherpesvirus 68	Professor James Stewart
Merseyside	University of Liverpool	Investigating how the Incubation Time of BSA Affects Rate of Fluorescence Unquenching from the Self Assembled Monolayer on Gold Nanoparticle	Dr Raphael Levy
Merseyside	University of Liverpool	Genetic Screen for Kinases Affecting Border Cell Migration in Fruit Flies as a Model for the Spread of Ovarian Cancer	Dr Neville Cobbe
Merseyside	University of Liverpool	Examining the Effect of Phosphates Misexpression on Border Cell Migration in Fruit Flies	Dr Neville Cobbe
Newcastle & Teesside	Durham University	Synthetic Organic Chemistry	Jonathan Sellars
Newcastle & Teesside	Durham University	Synthetic Organic Chemistry	Dr Patrick Steel
Newcastle & Teesside	Durham University	Synthetic Organic Chemistry	Jonathan Sellars
Newcastle & Teesside	Northumbria University	Physical science education	Dave Wealleans
Newcastle & Teesside	Northumbria University	Bioscience education	Dave Wealleans
Newcastle & Teesside	Northumbria University	Bioscience education	Dave Wealleans
Norfolk	Norwich Medical Scool	The impact of genetic make-up on	Prof AM

		response to dietary change	Minihane
Norfolk	Norwich Medical Scool	Dietary flavonoids and heart health	Prof Aedin Cassidy
North West	University of Manchester	Microbial Evolution	Dr Daniel Rozen
North West	University of Lancaster	Plant Stress Physiology	Catherine Pennington
North West	University of Manchester	Circadian Rhythms in physiology and behaviour of animals	Dr. Maria Canal
North West	University of Manchester	Polyaromatics	Dr J Gardiner
North West	University of Manchester	Assay for NQO2 activity and its Inhibitors	Professor I Stratford
North West	University of Manchester	Potency of known Inhibitors of theoxido-reductase NQ02	Professor I Stratford
North West	University of Manchester	Infrared Spectroscopic Signatures of Cancer in Renal Tissue	Dr Peter Gardner
North West	University of Lancaster	The Structure of Carbohydrates and their roles in disease	Dr R Lauder
North West	University of Manchester	Research into Alzheimer's Syndrome using chemical databases and stereoslective Chemistry	Professor J Clayden
North West	University of Manchester	Damage Caused by Anaerobic Bacteria to Rocks & Minerals surrounding Undergbround Radioactive Waste Storage Facilities	Professor R Pattrick
North West	University of Manchester	Developmental Genetics	Professor M Dixon
North West	University of Manchester	Analysis of Palate Development	Professor M Dixon
Oldham	Manchester University Faculty of Life SciencesW	Analysis of REV ERBa Action in Human Immunity	Prof. David Ray
Scotland	University of Strathclyde	The Effect of Salts in Biocatalytic Self-Assembly of Aromatic Peptide Amphiphiles	Rein Ulijn
Scotland	University of Glasgow	Analysis of DQB1 Alleles in Scottish Blackface Sheep	Mike Stear
Scotland	University of Edinburgh	Signalling Molecules in Mammalian Brain Development	Prof David Price
South West	University of Bristol	Folding and stability studies of a G-protein coupled receptor	Natalie D'Bartolo
Surrey	Imperial College London	A Study into the heterospecific and conspecific factors affecting the faecal deposition of Harlequin ladybirds, Harmonia axyridis	Dr Simon Leather
Surrey	King's Colllege - MRC Centre for Developmental Neurobiology	RET signalling	Dr Robert Knight
Sussex	University of Brighton	Characterisation of sensor stability for biological monitoring	Bhavik Patel
Wales	Glyndwr University	Characterisation and performance testing of grass-derived biosurfactants and polymers	Dr Ian Ratcliffe
Wales	Cardiff University	Optical Traps	Professor W Langbein
Wales	Centre for Water Soluble Polymers	Characterisation and performance testing of grass-derived biosurfactants and polymers	Dr I Ratcliffe

Wales	Cardiff University	Gene expression in embryonic stem cells under the influence of small molecule inhibitors of differentiation	Dr Susan Hunter
Wales	Cardiff University	Lung Toxicology	Dr Kelly Berube/Dr Tim Jones
Wales	Cardiff University	Drosphila as a model organism for genetics	Dr Helen White-Cooper
Wales	Cardiff University	Gene expression in embryonic stem cells under the influence of small molecule inhibitors of differentiation	Dr Susan Hunter
Wales	Cardiff University	Neurodegeneration	Professor Adrian Harwood
Wales	Cardiff University	Involvement of cartilage in osteoarthritis	Professor Bruce Caterson/Dr Clare Hughes
Wales	Cardiff University	Genetics of intestinal cancer	Dr K Reed
Wales	Cardiff University	Genetics of intestinal cancer	Dr Karen Reed
Wales	Cardiff University	Involvement of cartilage in osteoarthritis	Dr Clare Hughes/ Professor Bruce Caterson
Wales	Cardiff University	Lung Toxicology	Dr Kelly Berube/Dr Tim Jones
Wales	Cardiff University	River Ecology	Professor S Ormerod
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