



## United States Partnering Awards

### **BBSRC's support for facilitating international collaboration with the United States**

BBSRC's International Relations Unit (IRU) seeks to enhance BBSRC's influence and involvement at the forefront of international science, through taking advantage of international funding opportunities and capitalising on international links, both at policy and scientific levels.

The United States Partnering Awards have been established by BBSRC to specifically support UK-United States collaborative activity. The United States Partnering Awards provide resources to leading BBSRC-funded researchers and groups, so that they have the resources to establish long-term relationships with USA scientists in areas of research that are of direct relevance to BBSRC's current scientific strategy.

The first annual call for the United States Partnering Awards scheme was announced by BBSRC in 2007. Awards of up to £50,000, covering a four-year period, have typically been awarded. Since 2010, BBSRC has funded 54 United States Partnering Awards, providing a financial contribution of approximately £2.2M.

Funding from United States Partnering Awards can be used to support exchanges of personnel and to access facilities and workshops, although no prescribed mechanisms have been set concerning how the award should be used. However, priority is given to proposals that aim to provide exchange opportunities to early career researchers and access facilities and expertise not currently available in the UK.

The expectation is that United States Partnering Awards will enable researchers to establish collaborations that will lead to the submission of joint research proposals, either through UKRI or other funding organisations in the future.

A list of proposals that have been awarded by BBSRC since 2007 is shown below.

### **Contacts**

Any queries regarding the United States Partnering Awards scheme should be addressed to:

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**PREVIOUS AWARDS 2007 - 2018****2018 Call****Investigating the microstructure of human visual fields and generating low-vision applications**  
£6,860

UK lead partner	Dr Jasna Martinovic, Department of Psychology, University of Aberdeen
USA partner	Dr Daniel Coates, College of Optometry, University of Houston

**US Partnering Award: Skeletal muscle nitrate metabolism in older age**

£49,965

UK lead partner	Professor Andrew Jones, Department of Sport and Health Sciences, University of Exeter
USA partner	Dr Alan Schechter, Department of Diabetes, Digestive & Kidney Diseases, National Institutes of Health (NIH)

**Revealing the Full Picture: An integrated view of the shoot and root phenomes**

£50,000

UK lead partner	Professor David Salt, School of Biosciences, University of Nottingham
USA partner	Professor Mitch Tuinstra, Department of Biochemistry, Purdue University

**US Partnering Award: An integrative approach to understanding the GnRH pulse generator: combining in-vitro, in-vivo and in-silico methodologies.**

£49,600

UK lead partner	Professor Kevin O'Byrne, Department of Women's Health, King's College London
USA partner	Professor Martin Kelly, Department of Physiology and Pharmacology, Oregon Health and Science University

**2017 Call****US Partnering Award: Cellular heterogeneity, signalling and decision-making in human pluripotent stem cells**

£47,200

UK lead partner	Dr Peter Rugg-Gunn, Department of Epigenetics, Babraham Institute
USA partner	Professor Sean Bendall, Department of Pathology, Stanford University

**Systems approaches for understanding individuality: A UK-US nexus**

£49,950

UK lead partner	Professor Lisa Collins, Institute of Integrative & Comparative Biology, University of Leeds
USA partner	Professor Victoria Braithwaite, College of Agricultural Sciences, Pennsylvania State University

**The role of the chloroplast in activation of systemic immunity**

£49,800

UK lead partner	Professor Murray Grant, Department of Biological Sciences, University of Warwick
USA partner	Professor Pradeep Kachroo, Department of Plant Pathology, University of Kentucky

**2016 Call**

**Super-resolution imaging of laminin deposition and organization**

£36,900

UK lead partner	Dr Kevin Hamill, Institute of Ageing and Chronic Disease, University of Liverpool
USA partner	Dr Teng Chew, Janelia Farm Research Campus, Howard Hughes Medical Institute

**US Partnering Award: USA transatlantic partnership to identify novel mechanisms of calcification.**

£48,100

UK lead partner	Dr Vicky MacRae, Royal (Dick) School of Veterinary Science, The Roslin Institute, University of Edinburgh
USA partner	Dr Olivier Le Saux, John A. Burns School of Medicine, University of Hawaii at Manoa

**2015 Call**

**US Partnering Award: Vector-borne diseases in the UK & US: common threats and shared solutions**

£49,000

UK lead partner	Professor Matthew Baylis, Institute of Infection and Global Health, University of Liverpool
<b>UK partner</b>	Dr Jolyon Medlock, Microbiology Services Proton, Public Health England
USA partner	Dr Janet Foley, Medicine and Epidemiology Department, University of California Davis Dr Alec Gerry, Entomology Department, University of California Riverside

**United States-UK partnering award: Co-infection and resistance (CORE)**

£48,900

UK lead partner	Professor Eileen Devaney, College of Medical, Veterinary & Life Science, University of Glasgow
USA partner	Dr Adrian Wolstenholme, Department of Infectious Diseases, University of Georgia

**UK-US platform for the study of RNA structure in living cells**

£48,395

UK lead partner	Dr Yiliang Ding, Department of Cell and Development Biology, John Innes Centre
USA partner	Professor Elizabeth Tran, Department of Biochemistry, Purdue University Professor Sharon Aviran, Genome and Biomedical Sciences Facility, University of California Davis

**United States - UK Partnership: antimicrobial drug resistance in a changing agricultural world**

£49,896

UK lead partner	Professor Eric Fevre, Institute of Infection and Global Health, University of Liverpool
USA partner	Professor Gebreyes Wondwossen, Veterinary Preventive Medicine Department, Ohio State University

**From Pathway Discovery to Re-engineering**

£49,200

UK lead partner	Professor Anthony Hall, Institute of Integrative Biology, University of Liverpool
USA partner	Dr Len Pannacchio, Department of Genome Science, Lawrence Berkeley National Laboratory

**BBSRC UNITED STATES PARTNERING AWARDS 2007 - 2018**

	Dr Sam Deutsch, Department of Synthetic Biology, Joint Genome Institute
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**United States: Harnessing next-generation sequencing technologies for eco-evolutionary studies of herbicide resistance and weed biology**

£31,145

<b>UK lead partner</b>	<b>Dr Paul Neve, Department of Agro-Ecology, Rothamsted Research</b>
USA partner	Dr Todd Gaines, Department of Bioagricultural Science and Pest Management, Colorado State University

**Development, validation and refinement of protocols to improve the welfare of pullets and laying hens**

£32,100

<b>UK lead partner</b>	<b>Professor Christine Nicol, Department of Clinical Veterinary Science, University of Bristol</b>
USA partner	Professor Joy Mench, Department of Animal Science, University of California Davis

**2014 Call**

**Imaging in vivo chromatin dynamics in Drosophila**

£39,650

UK lead partner	Dr Paul Badenhorst, Department of Immunity and Infection, University of Birmingham
USA partner	Dr Carl Wu, Janelia Farm Research Campus, Howard Hughes Medical Institute

**US Partnering Award - Carbohydrate Sequencing Consortium**

£50,000

UK lead partner	Professor Sabine Flitsch, Department of Chemistry, The University of Manchester
USA partner	Professor Nicola Pohl, Department of Chemistry, Indiana University

**USA Partnering award: Genomic selection in cereals for grain quality and improved soil health**

£29,900

UK lead partner	Dr Christopher Ridout, Department of Crop Genetics, John Innes Centre
USA partner	Mrs Ashley McFarland, Department of Microbiology, Michigan State University Professor Greg Roth, Pennsylvania State University Professor Carl Griffey, College of Agriculture and Life Sciences, Virginia Polytechnic Institute & State University Professor Mark Sorrells, Department of Plant Breeding, Cornell University

**US Partnering Award: "Nanoporous microsystems: A new view of epithelial physiology, on a chip"**

£49,000

UK lead partner	Dr Kevin Webb, Division of Electrical Systems and Optics, University of Nottingham
USA partner	Professor James McGrath, Department of Biomedical Engineering, University of Rochester Dr Thomas Gaborski, Rochester Institute of Technology Professor Ricky Wildman, Division of Manufacturing, University of Nottingham

**US Partnering Award - Combining mechanistic and evolutionary approaches to studying socially-induced stress in vertebrates**

£28,600

UK lead partner	Dr Alastair Wilson, Department of Biosciences, University of Exeter
USA partner	Dr Ryan L Earley, Biological Sciences Department, University of Alabama

**2013 Call**

**International Partnering Award with the USA to investigate signaling pathways that regulate human immunity during ageing**

£45,300

UK lead partner	Professor Arne Akbar, Department of Immunology and Molecular Pathology, University College London
USA partner	Professor Bonnie Blomberg, Miller School of Medicine, University of Miami Professor James G. Krueger, Laboratory for Investigative Dermatology, The Rockefeller University

**A plant-microbial trait framework for interrogating soil functioning**

£41,030

UK lead partner	Professor Richard Bardgett, Department of Life Sciences, The University of Manchester
USA partner	Professor Noah Fierer, CIRES, University of Colorado at Boulder

**Bridging the Genotype to Phenotype Gap: Uncovering root anatomical, architectural and field traits**

£49,000

UK lead partner:	Professor Malcolm Bennett, School of Biosciences, University of Nottingham
USA partner	Professor Jonathan Lynch, College of Agricultural Sciences, Pennsylvania State University Professor Shawn Kaepler, Department of Agronomy, University of Wisconsin Madison

**US partnering award: Exploring avian host and viral determinants of susceptibility to influenza virus infection**

£39,100

UK lead partner	Dr Colin Butter, Department of Avian Viral Diseases, The Pirbright Institute
UK partner	Dr Munir Iqbal, Department of Avian Viral Diseases, The Pirbright Institute Dr Adrian Smith, Department of Zoology, University of Oxford
USA partner	Professor Elankumaran Subbiah, Department of Molecular Medicine and Infectious Diseases, Virginia Polytechnic Institute & State University Dr Suresh Varma Kuchipudi, Division of Microbiology and Infectious Diseases, University of Nottingham Dr Wendy Howard, Department of Virology, Animal Health & Veterinary Lab Agency Dr Srinivasa Rao, Vaccine Research Centre, National Institutes of Health Dr Bas Baaten, Infectious and Inflammatory Disease Centre, Sanford Burnham Medical Research Institute

**US Partnering Award: Using bioinformatics to predict and understand virus-host interactions to improve ASFV vaccines, therapeutics and diagnostics**

£29,600

UK lead partner	Dr Linda Dixon, Department of Vector-borne Viral Diseases, The Pirbright Institute
USA partner	Professor Joanna Shisler, College of Medicine, University of Illinois

**US partnering award - Single cell resolution in the context of the whole organism: using Xenopus to study axonal growth and regeneration**

£29,000

UK lead partner	Dr Karel Dorey, Department of Life Sciences, The University of Manchester
USA partner	Dr Timothy Gomez, Department of Medical Sciences, University of Wisconsin

## BBSRC UNITED STATES PARTNERING AWARDS 2007 - 2018

	Madison
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### US Partnering Award: Systems Biology of Plants and Algae, from Molecular Networks to Informatics Infrastructure

£43,050

UK lead partner	Professor Andrew Millar, School of Biological Sciences, University of Edinburgh
USA partner	Dr Dan Stanzione, iPlant Collaborative c/o TACC, Texas Advanced Computing Center, University of Texas at Austin

### Enhancing food safety & animal welfare via UK-US collaboration

£48,000

UK lead partner	Professor Mark Stevens, The Roslin Institute, University of Edinburgh
USA partner	Professor Guy Loneragan, Department of Biological Sciences, Texas Technical University Professor Tom Edrington, Agricultural Research Service, US Department of Agriculture Dr David Renter, Biology Division, Kansas State University Dr Wendy Elliot, Head Office, Zoetis International Service SAS

### UK-US Collaboration on Structure, Function and Dynamics of Voltage-Gated Sodium Channels

£42,000

UK lead partner	Professor Bonnie Wallace, Department of Biological Sciences, Birkbeck College
USA partner	Professor David Clapham, Department of Neurobiology, Harvard Medical School Professor Martin Ulmschneider, Department of Chemical Biomolecular Engineering, John Hopkins University

## 2012 Call

### Emergence of Japanese Encephalitis in the highlands of Nepal

£47,500

UK lead partner	Professor Matthew Baylis, Institute of Infection and Global Health, University of Liverpool
USA partner	Professor William Reisen, Veterinary Medicine School, University of California Davis

### US partnering on the use of neutron scattering to study aggregation in therapeutic proteins during manufacture and storage

£42,500

UK lead partner:	Dr Paul Dalby, Department of Biochemical Engineering, University College London
USA partner	Dr Paul Butler, Centre for Neutron Research, National Institute of Standards and Technology (NIST) Dr Chris Roberts, Department of Chemical Engineering, University of Delaware Dr Luke Clifton, ISIS Facility

### US-UK Biorefining Collaboration

£30,290

UK lead partner	Dr Joseph Gallagher, IBERS, Aberystwyth University
USA partner	Dr Daniel Inman, Biotech Division for Fuels and Chemicals, National Renewable Energy Laboratory

**Advanced iron-specific spectroscopies for the study of iron-sulfur cluster transcriptional regulators**

£36,400

UK lead partner:	Nicolas Le Brun, Department of Chemistry, University of East Anglia
USA partner	Stephen Cramer, Department of Chemistry, University of California Davis

**More than skin deep: from blood to hair and return. In vivo imaging and functional manipulation of stem cell niches.**

£30,000

UK lead partner	Dr Christina Lo Celso, Department of Life Science – Cell & Molecular Biology, Imperial College London
USA partner	Dr Valentina Greco, Genetics Department, Yale University

**US-A transatlantic partnership to identify novel factors that influence the development and function of M cells in the gut epithelium**

£36,200

UK lead partner:	Neil Mabbott, The Roslin Institute, University of Edinburgh
USA partner	Ifor Williams, Department of Pathology, Emory University

**Assessing keel health in commercial laying hens and potential methods for improvement**

£43,000

UK lead partner	Professor John Tarlton, Department of Clinical Veterinary Sciences, University of Bristol
USA partner	Dr Darrin Karcher, Department of Animal Science, Michigan State University Dr Heng-Wei Cheng, Agricultural Research Service, U.S. Department of Agriculture (USDA) Dr Maja Makagon, Department of Animal Sciences, Purdue University

**US-UK partnership in NMR structure validation**

£30,000

UK lead partner:	Geerten Vuister, Department of Biochemistry, University of Leicester
USA partner	Gaetano Montelione, Department of Molecular Biology and Biochemistry, Rutgers State University of New Jersey

**2011 Call**

**US Partnership: Developing research on cognitive and emotional system interactions in older human adult**

£46,680

UK lead partner	Professor Jane Raymond, School of Psychology, Bangor University
USA partner	Professor Steve Luck, Centre for Mind and Brain, University of California Davis

**USA - Novel insights into the mechanisms of salt appetite**

£49,000

UK lead partner	Professor David Murphy, Clinical Science at South Bristol, University of Bristol
USA partner	Professor Jonathan Sweedler, Department of Chemistry, University of Illinois Professor Martha Gillette, The School of Molecular and Cellular Biology, University of Illinois at Urbana Champaign

**Development of complementary strategies for the analysis of dietary bioactives in foods and biofluids**

£38,810

UK lead partner	Dr Colin Kay, Norwich Medical School, University of East Anglia
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USA partner	Professor Andrew Waterhouse, Department of Viticulture & Enology, University of California Davis
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### **Sphingolipidomic analysis**

£26,700

UK lead partner:	Professor Dominic Campopiano, School of Chemistry, University of Edinburgh
USA partner	Professor Alfred Merrill, School of Biology, Georgia Institute of Technology Professor Teresa Dunn, Department of Biochemistry and Molecular Biology, Uniformed Services University

### **US - Phylogenetic approaches to network analysis**

£33,250

UK lead partner:	Professor John Pinney, Division of Molecular Biosciences, Department of Life Sciences, Imperial College London
USA partner	Dr Dannie Durand, Department of Biological Sciences, Carnegie Mellon University

### **US Partnering Award: Campylobacter 'omics' and their contribution towards food safety**

£31,000

UK lead partner:	Dr Arnoud van Vliet, Food Borne Bacterial Pathogens Programme, Institute of Food Research
USA partner	Dr Craig Parker, Agricultural Research Service, United States Department of Agriculture (USDA-ARS)

### **Regulatory networks for asymmetric cell division**

£48,800

UK lead partner:	Dr Ive De Smet, School of Biosciences, University of Nottingham
USA partner	Professor Siobhan Brady, Department of Plant Biology, University of California Davis Professor Jonathan Minden, Department of Biological Sciences, Carnegie Mellon University Professor Philip Benfey, Institute for Genome Sciences & Policy, Duke University

## **2010 Call**

### **Establishing a trans-atlantic partnership for studying the neural networks for motor skill learning in the human brain**

£ 46,000

UK lead partner:	Sven Bestmann, Institute of Neurology, University College London
USA partner	John Krakauer, Neurology and Neuroscience, John Hopkins University

### **Establishing transatlantic links between groups investigating managed pollinator populations**

£45,326

UK lead partner:	Giles Budge, Plant Health Group, Food & Environment Research Agency
US lead partners:	Keith Delaplane, Department of Entomology, University of Georgia; Jay Evans, Bee Research Laboratory, U.S. Department of Agriculture

### **Exploring the Life Cycle Methodology and Impacts of Bioenergy Production**

£33,930

UK lead partner:	Marcelle McManus, Mechanical Engineering Department, University of Bath
US lead partner:	Caroline Taylor, Bioenergy Analysis Team, Energy Biosciences Institute



**Resources for the Study of the Beneficial Symbioses in Model Legumes**

£23,140

UK lead partner:	Jeremy Murray, Department of Disease and Stress Biology, John Innes Centre
US lead partner:	Michael Udvardi, Plant Biology Department, Samuel Roberts Noble Foundation

**The development and application of complementary biophysical methods enabling the study of biomacromolecular dynamics**

£ 48,660

UK lead partner:	John Cunningham, Astbury Centre, University of Leeds
US partner:	Edward Snell, Hauptmann-Woodward Institute

**Computational reconstruction of stochastic regulation: from transcriptional modules to network remodelling**

£35,200

UK lead partner:	Guido Sanguinetti, School of Informatics, University of Edinburgh
US lead partner:	Edoardo Airoldi, Statistics Department, Harvard University

**Optimising processes for the deconstruction of plant biomass**

£38,500

UK lead partner:	Gregory Tucker, School of Biosciences, University of Nottingham
US lead partner:	Blake Simmons, Deconstruction Department, Joint Bioenergy Institute

**Probing light touch contributions to elderly balance**

£20,240

UK lead partner:	Alan Wing, School of Psychology, University of Birmingham
US lead partner:	Mark Redfern, University of Pittsburgh

**Development of new analytical tools to study the physiology/pharmacology of the ageing gastrointestinal tract**

£25,249

UK lead partner:	Mark Yeoman, School of Pharmacy & Biomolecular Sciences, University of Brighton
US lead partner:	Greg Swain, Chemistry Department, Michigan State University

**2009 Call**

**Systems analysis of G-protein dynamics in *D. discoideum*: a pilot study using novel 3D microscopy, computational modelling, and micromanipulation**

£18,160

UK lead partner:	Andrew Goryachev, School of Biological Sciences, University of Edinburgh
US lead partner:	Professor Christopher Janetopoulos, Department of Biological Sciences, Vanderbilt University

**Genomic approaches to understanding and exploiting interactions between the parasitic weeds *Striga* spp. and their hosts**

£38,100

UK lead partner:	Julie Scholes, Department of Animal and Plant Sciences, University of Sheffield
US lead partner:	Michael Timko, Department of Biology, University of Virginia

**Development of metaproteomics for in situ investigation of microbial activity both in vivo and in soil and faeces**

£32,477

UK lead partner:	Elizabeth Wellington, Department of Biological Sciences, University of Warwick
US partners:	Nathan VerBerkmoes, Organic and Biological Mass Spectrometry, Oak Ridge National Laboratory

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	Woutrina Millar Wildlife Health Center, School of Veterinary Medicine, University of California Matthew Wallenstein Natural Resource Ecology Laboratory Colorado State University Fort Collins Nikos Kyrpides, Genome Biology Program, DOE Joint Genome Institute
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### Establishing a transatlantic platform for plant lipidomics

£29,500

UK lead partner:	Johnathan Napier, Department of Biological Chemistry, Rothamsted Research
US partners:	Ed Cahoon, Department of Biochemistry, University of Nebraska Jonathan Markham, Donald Danforth Plant Sciences Centre (DDPSC), St. Louis

### Exploring greatly expanded mutational variant space in key target biomolecules - technological innovation driving novel solutions

£22,960

UK lead partner:	John McCarthy, Director of Manchester Interdisciplinary Biocentre, The University of Manchester
US partners:	Virginia Cornish, Department of Chemistry, Columbia University David Stokes, NYSBC

### Towards an international plant genome database

£33,600

UK lead partner:	Ewan Birney, European Bioinformatics Institute (EBI), European Molecular Biology Laboratory
US partners:	Doreen Ware, United States Department of Agriculture (USDA) Agriculture Research Service, Cold Spring Harbor Laboratory (CSHL)

### New insights into using lignocellulose degradation mechanisms for biofuel generation gaining by sharing expertise in wood-degrading animals and fungi

£32,950

UK lead partner:	Simon Cragg, School of Biological Sciences, University of Portsmouth
US partners:	Barry Goodell, School of Forest Resources, University of Maine Jody Jellison, School of Biology and Ecology, University of Maine Xinfeng Xie, School of Forest Resources

## 2008 Call

### Developing Synchrotron Radiation Circular Dichroism (SRCD) Spectroscopy Methods and Applications for Structural Biology

£42,280

UK lead partner:	B. A. Wallace, Department of Crystallography, University of London
US partners:	John Sutherland, Biology Department, Brookhaven National Lab Stephen Benkovic, Chemistry Department, Pennsylvania State University

### Establishing the Heliconius Genome Consortium

£37,500

UK lead partner:	Chris Jiggins, Department of Zoology, University of Cambridge
US partners:	Owen McMillan, Genetics Department, North Carolina State University Robert Reed, School of Biological Sciences, University of California at Irvine Marcus Kronforst, FAS Centre for Systems Biology, Harvard University Sean Mullen Department of Biological Sciences, Lehigh University

### New Technology to study T lymphocyte ageing *in vitro* and *in vivo*

£36,300

UK lead partner:	Arne N. Akbar, Department of Immunology, University College London
US partners:	Elias E Coutavas, Laboratory for Cell Biology

	James G. Krueger, Laboratory for Investigative Dermatology, The Rockefeller University, New York
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**Collaborative Tool Development to Promote the Adoption of Visual Representation Standards in Systems Biology**

£49,780

UK lead partner:	Igor Goryanin, School of Informatics, University of Edinburgh
US partners:	Mirit I Aladjem, DNA replication Group, Laboratory of Molecular Pharmacology Huaiyu Mi, Evolutionary Systems Biology Group, SRI International Mike Hucka, Control and Dynamical Systems, California Institute of Technology Chris Sander, Computational Biology Center, Memorial Sloan Kettering Cancer Center Herbert M Sauro, Department of Bioengineering, University of Washington

**Sphingolipid biosynthesis in man and microbes**

£18,600

UK lead partner:	Dominic J. Campopiano, School of Chemistry, University of Edinburgh
US partners:	Teresa M. Dunn, Department of Biochemistry & Molecular Biology Jeff M. Harmon, Department of Pharmacology Uniformed Services University of the Health Sciences Robert H. Brown Jr., Department of Neurology, Massachusetts General Hospital Florian Eichler, Department of Neurology, Harvard Medical School

**Outpacing infectious disease: African swine fever virus vaccine development**

£34,300

UK lead partner:	Linda Kathleen Dixon, Microbiology Division, The Pirbright Institute
US partners:	Bertram Jacobs and Kathym Sykes, School of Life Sciences, The Biodesign Institute, Centre for Infectious Disease and Vaccinology, Arizona State University

**UK - US Collaboration on Exploring the Cancer Epigenome in Animals**

£48,400

UK lead partner:	Venugopal Nair, Department of Microbiology, The Pirbright Institute
US partners:	Jean-Pierre Issa and Bessie McGoldrick, Haematological malignancies program, Centre for Cancer Epigenetics, Houston Stephen B. Baylin, John Hopkins University School of Medicine

**CMMB/MBI partnership for multiscale mathematical modelling in systems biology**

£50,000

UK lead partner:	Markus Owen, School of Mathematical Sciences, University of Nottingham
US partners:	Marty Golubitsky and David Terman, Mathematical Biosciences Institute, Ohio State University

**2007 Call**

**A microarray for rhizosphere soil, a key driver of climate change**

£49,480

UK lead partner:	Elizabeth Baggs, University of Aberdeen (UCB)
US partners:	Mary Firestone, College of Natural Resources, University of California; Josh Schimel, Ecology, Evolution and Marine Biology, University of California

**Systems approaches to study hormone regulated root growth**

£49,000

UK lead partner:	Malcolm Bennett, University of Nottingham
US partners:	Tobias Baskin, Biology Department, University of Massachusetts, Amherst; T. Guilfoyle, Biochemistry Department, University of Missouri-Columbia; M.

	Estelle, Biology Department, Indiana University Bloomington
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**Technology development for solving the structures of mammalian membrane proteins**

£36,800

UK Lead partner	Richard Cogdell, University of Glasgow
US Lead partner	Ray Stevens, Molecular Biology, The Scripps Research Institute

**Underpinning genetics of biomass yield, quality and sustainability in *Miscanthus* and switchgrass**

£44,800

UK lead partner:	Iain Donnison, Institute of Grassland and Environmental Research
US partners:	Malay Saha, Joe Bouton, Brindha Narasimhamoorthy Francis Kirigwi, Forage Improvement Division, The Samuel Roberts Nobel Foundation, Inc.

**Lifelong learning and cortical plasticity in the human brain**

£30,000

UK lead partner:	Zoe Kourtzi, University of Birmingham
US partners:	Dennis Levi, University of California, Berkeley Mark D'Esposito, Helen Wills Neuroscience Institute, University of California, Berkeley

**The CCPB-NBCR Partnership Programme**

£47,000

UK lead partner	Charles Laughton, University of Nottingham (Collaborative Computational Project for Biomolecular Simulation)
US Partners	Peter Arzberger, Wilfred Li and Professor Andrew McCammon, University of California, San Diego (National Biomedical Computing Resource)