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 55 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:
Sania Afzal
Assistant International Relations Manager
International Relations Unit, BBSRC - UKRI
Email: Sania.Afzal@bbsrc.ukri.org
PREVIOUS AWARDS 2007 - 2019

2019 Call

US Partnering Award - Robotic models for studying the musculoskeletal systems and bio-inspired design
£24,900

| UK lead partner | Dr Ariel Camp, University of Liverpool |
| USA partner     | Brooke Flammang, Biological Sciences, New Jersey Institute of Technology |

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 |

£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 |
| UK partner | 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
<table>
<thead>
<tr>
<th>From Pathway Discovery to Re-engineering</th>
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<tr>
<td><strong>£49,200</strong></td>
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<tr>
<td><strong>UK lead partner</strong></td>
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<tr>
<td>Professor Anthony Hall, Institute of Integrative Biology, University of Liverpool</td>
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<tr>
<td><strong>USA partner</strong></td>
</tr>
<tr>
<td>Professor Gebreyes Wondwossen, Veterinary Preventive Medicine Department, Ohio State University</td>
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<thead>
<tr>
<th>United States: Harnessing next-generation sequencing technologies for eco-evolutionary studies of herbicide resistance and weed biology</th>
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<tbody>
<tr>
<td><strong>£31,145</strong></td>
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<tr>
<td><strong>UK lead partner</strong></td>
</tr>
<tr>
<td>Dr Paul Neve, Department of Agro-Ecology, Rothamsted Research</td>
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<tr>
<td><strong>USA partner</strong></td>
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<tr>
<td>Dr Todd Gaines, Department of Bioagricultural Science and Pest Management, Colorado State University</td>
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<th>Development, validation and refinement of protocols to improve the welfare of pullets and laying hens</th>
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<tr>
<td><strong>£32,100</strong></td>
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<tr>
<td><strong>UK lead partner</strong></td>
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<tr>
<td>Professor Christine Nicol, Department of Clinical Veterinary Science, University of Bristol</td>
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<td><strong>USA partner</strong></td>
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<tr>
<td>Professor Joy Mench, Department of Animal Science, University of California Davis</td>
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<tr>
<th>2014 Call</th>
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<tr>
<td>Imaging in vivo chromatin dynamics in Drosophila</td>
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<td><strong>£39,650</strong></td>
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<tr>
<td><strong>UK lead partner</strong></td>
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<tr>
<td>Dr Paul Badenhorst, Department of Immunity and Infection, University of Birmingham</td>
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<tr>
<td><strong>USA partner</strong></td>
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<tr>
<td>Dr Carl Wu, Janelia Farm Research Campus, Howard Hughes Medical Institute</td>
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<th>US Partnering Award - Carbohydrate Sequencing Consortium</th>
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<td><strong>£50,000</strong></td>
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<td><strong>UK lead partner</strong></td>
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<tr>
<td>Professor Sabine Flitsch, Department of Chemistry, The University of Manchester</td>
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<tr>
<td><strong>USA partner</strong></td>
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<tr>
<td>Professor Nicola Pohl, Department of Chemistry, Indiana University</td>
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<tr>
<th>USA Partnering award: Genomic selection in cereals for grain quality and improved soil health</th>
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<tr>
<td><strong>£29,900</strong></td>
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<tr>
<td><strong>UK lead partner</strong></td>
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<tr>
<td>Dr Christopher Ridout, Department of Crop Genetics, John Innes Centre</td>
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<tr>
<td><strong>USA partner</strong></td>
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<tr>
<td>Mrs Ashley McFarland, Department of Microbiology, Michigan State University</td>
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<tr>
<td>Professor Greg Roth, Pennsylvania State University</td>
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<tr>
<td>Professor Carl Griffey, College of Agriculture and Life Sciences, Virginia Polytechnic Institute &amp; State University</td>
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<tr>
<td>Professor Mark Sorrells, Department of Plant Breeding, Cornell University</td>
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<th>US Partnering Award: &quot;Nanoporous microsystems: A new view of epithelial physiology, on a chip&quot;</th>
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<td><strong>£49,000</strong></td>
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<tr>
<td><strong>UK lead partner</strong></td>
</tr>
<tr>
<td>Dr Kevin Webb, Division of Electrical Systems and Optics, University of Nottingham</td>
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<tr>
<td><strong>USA partner</strong></td>
</tr>
<tr>
<td>Professor James McGrath, Department of Biomedical Engineering, University</td>
</tr>
</tbody>
</table>
### 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 Kaeppler, 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  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, Sandford 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 Madison

**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 partners:**  
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 Gilette, 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
USA partner | Professor Andrew Waterhouse, Department of Viticulture & Enology, University of California Davis

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
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
£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

- **£29,477**
  - **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
    - Wouterina 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

### Establishing a transatlantic platform for plant lipidomics

- **£29,500**
  - **UK lead partner:** Johnathan Napier, Department of Biological Chemistry, Rothamsted Research
  - **US partners:**
    - Ed Cahoon, Depart 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 (CSHBL)

### 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 Ecogy, 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, Pennsylvannia State University

#### Establishing the Heliconius Genome Consortium

- **£38,100**
**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

**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:**
- Miri 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

[https://bbsrc.ukri.org/funding/filter/usa/](https://bbsrc.ukri.org/funding/filter/usa/)
£49,480

<table>
<thead>
<tr>
<th>UK lead partner</th>
<th>Elizabeth Baggs, University of Aberdeen (UCB)</th>
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<tbody>
<tr>
<td>US partners</td>
<td>Mary Firestone, College of Natural Resources, University of California; Josh Schimel, Ecology, Evolution and Marine Biology, University of California</td>
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**Systems approaches to study hormone regulated root growth**

£49,000

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<tr>
<th>UK lead partner</th>
<th>Malcolm Bennett, University of Nottingham</th>
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<tr>
<td>US partners</td>
<td>Tobias Baskin, Biology Department, University of Massachusetts, Amherst; T. Guilfoyle, Biochemistry Department, University of Missouri-Columbia; M. Estelle, Biology Department, Indiana University Bloomington</td>
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**Technology development for solving the structures of mammalian membrane proteins**

£36,800

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<tr>
<th>UK Lead partner</th>
<th>Richard Cogdell, University of Glasgow</th>
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<tr>
<td>US Lead partner</td>
<td>Ray Stevens, Molecular Biology, The Scripps Research Institute</td>
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**Underpinning genetics of biomass yield, quality and sustainability in Miscanthus and switchgrass**

£44,800

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<tr>
<th>UK lead partner</th>
<th>Iain Donnison, Institute of Grassland and Environmental Research</th>
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<tr>
<td>US partners</td>
<td>Malay Saha, Joe Bouton, Brindha Narasimhamoorthy Francis Kirigwi, Forage Improvement Division, The Samuel Roberts Nobel Foundation, Inc.</td>
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**Lifelong learning and cortical plasticity in the human brain**

£30,000

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<tr>
<th>UK lead partner</th>
<th>Zoe Kourtzi, University of Birmingham</th>
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<tr>
<td>US partners</td>
<td>Dennis Levi, University of California, Berkeley Mark D’Esposito, Helen Wills Neuroscience Institute, University of California, Berkeley</td>
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**The CCPB-NBCR Partnership Programme**

£47,000

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