

BBSRC's view of the importance of collaborative research and an overview of funding opportunities

Dr Vicky Jackson
Strategy & Policy Manager

Biotechnology and Biological Sciences Research Council



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Engineering and Physical Sciences
Research Council

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ECONOMIC
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RESEARCH
COUNCIL



Arts & Humanities
Research Council

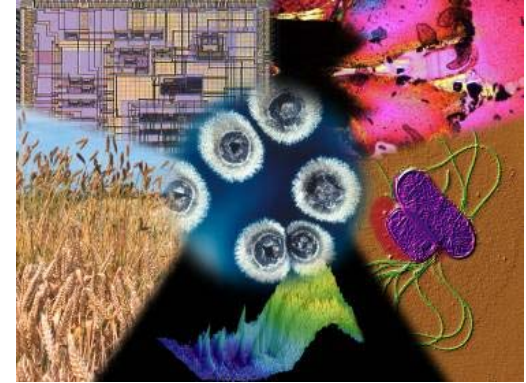


Biotechnology and Biological Sciences Research Council



Our Mission (Royal Charter) is:

- to support high-class **science** and research **training**, and to promote **knowledge transfer**
- in support of bio-based **industries** and **public** engagement in bioscience.



BBSRC funding totals around £420M p.a. (08/09)



STAKEHOLDERS

- **ACADEMIA**
- **INDUSTRY**
- **PUBLIC**
- **GOVERNMENT**

“Mixed economy” of BBSRC funding

Universities

- basic research
- curiosity-driven
- shorter-term funding
- research training

Institutes

- strategic research
- mission-oriented
- longer-term funding
- specialist facilities



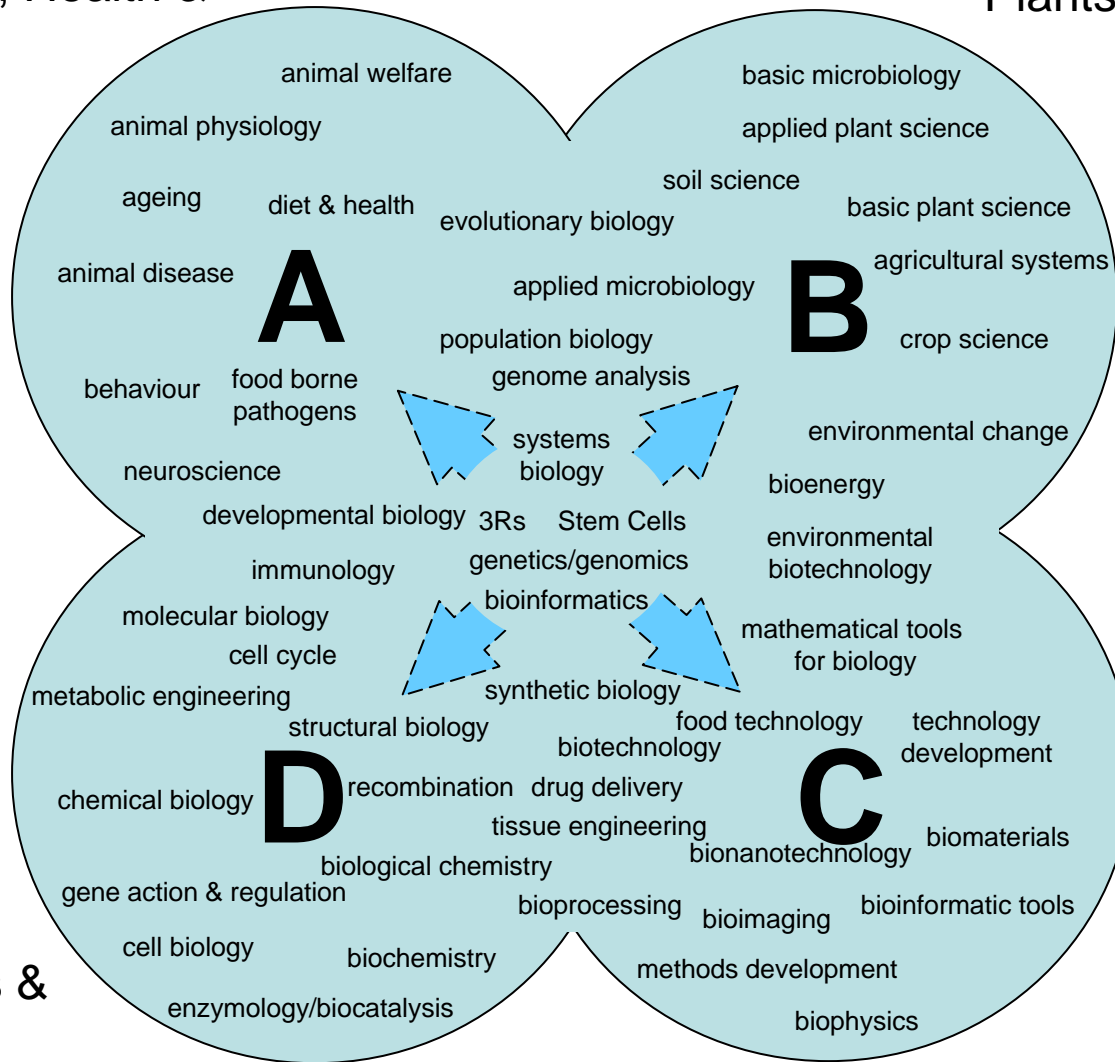
BBSRC Grant Funding (and mechanisms for collaboration)

Funding Opportunities

- **Responsive Mode** will be the major vehicle to deliver our priorities – 4 closing dates per year.
Next dates: 13 January 2010, 14 April 2010
- We need to deliver more **inter-disciplinary and strategically focussed science** with greater impact
- **Research initiatives: BBR; TRDF**
- **Small awards** to further **collaboration: Synthetic Biology Networks; MATSYB**

Animal Systems, Health & Wellbeing

Plants, Microbes, Food & Sustainability



Molecules, Cells & Industrial Biotechnology

Technological & Methodological Development

BBSRC Priorities 2008-2011



Research Priorities

- Ageing Research: Lifelong Health and Wellbeing
- Animal Health
- Bioenergy
- Crop Science (Food Security)
- Global Security
- Living with Environmental Change
- Nanoscience Through Engineering to Application: Bionanotechnology
- Synthetic Biology
- Systems Approach to Biological Research
- Technology Development for Bioscience

Policy Priorities

- Economic and Social Impact
- Impact on Public Policy
- **Increased International Collaboration**
- Replacement, Refinement and Reduction (3Rs) in Research Using Animals
- Welfare of Managed Animals (including Livestock and Companion Animals)

Details of these are available on the BBSRC website

New Investigator Scheme



Apply as a normal grant

- Focus on **potential** – not track record
- Open to **new lecturers** within the **first 3 years of their first permanent appointment**
- Must **not** have received competitive research funding from any source, **as a PI**, which includes support costs for research staff
- Apply as **sole** PI (co-Is permitted from different disciplines)
- Funding ceiling of £250K **now gone**

Research Fellowships



- Call-for-proposals issued annually in **autumn – closing date usually mid November**
- **BBSRC David Phillips Fellowships**
(5 years)
- **Institute Fellowships**
- **BBSRC Research Development Fellowships**
(up to 3 years)
- **Returning to Work: Daphne Jackson Fellowships**

For scientists who have demonstrated high potential and who wish to establish themselves as **independent researchers**

Awards are for **5 years**, and include **personal salary** and a significant research **support grant**

Minimum of **3 years** Post-doctoral research and maximum of **10 years active** postgraduate research (or full time equivalents).

Can be conducted at a range of levels:

Within BBSRC: Between Institutions / Disciplines

Between the Research Councils:

Co-funding between Research Councils

Cross-Council programmes

Internationally: ERANets / Framework Programmes

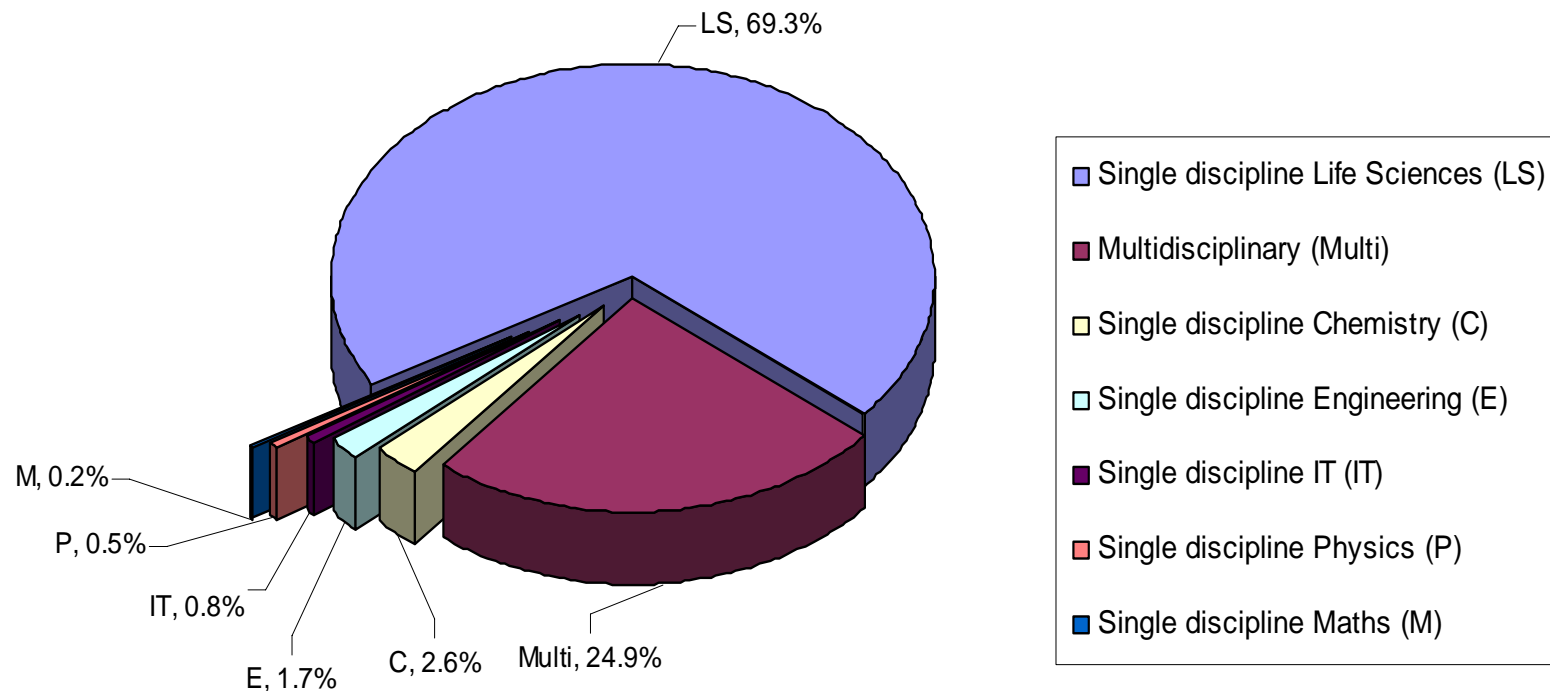
Travel Awards

Lead Agency Procedure (Brazil)

Others under discussion

BBSRC funding across Disciplines

Analysis of BBSRC funding by discipline - based on grants live on 1 April 2009 (Total value £737M) (excludes Institutes)



RCUK Joint Statement on the Peer Review of Research Proposals at the Interface with other Councils

Launched 2000, refreshed 2006,

Formal procedure:

- single assessment process – no double jeopardy
- contribution to assessment process (e.g. referees)
- co-funding of successful grants

**If working at the interface: Contact us to discuss your
proposal before submission**

Delivery of Multidisciplinary Cross-Council Programmes



- Food Security
- (Bio)energy
- Living with Environmental Change
- Global Uncertainties: Security for all in a Changing World
- Ageing (Lifelong Health and Wellbeing)
- Nanotechnology through engineering to application
- (Digital Economy)



The Insect Pollinators initiative:

Funded jointly by BBSRC, Defra, NERC, Scottish Government and Wellcome Trust

Aims to understand the complex reasons why numbers and diversity of pollinating insects are declining, and to develop mitigation strategies

Reasons for decline are likely to be complex and multifactorial, so systems approaches are encouraged

Aims to engage researchers with expertise in epidemiology, genetics, genomics, microbiology, pathology, modelling, ecology and diagnostics, i.e. not just the existing pollinator community

Part of the LWEC programme

BBSRC International Strategy

International



Our aim is to ensure that the UK remains a world-leader in the biosciences, and that academic research, industrial R&D and the UK economy benefit from the increasing scientific activity across the globe.

Our strategy will be to ensure we have an international strategy through our international research centres.

- increasing the number of people
- increasing international research and innovation
- ensuring a world-class infrastructure and information
- addressing our global responsibilities

- Promoting the movement of people
- Enabling international research and collaboration
- Ensuring access to world-class infrastructure and information
- Discharging our global responsibilities

BBSRC

International Schemes



International activities can be included in **responsive mode** applications (BBSRC Policy Priority)

BBSRC provides support for strategically important areas at the international level:

- Bilateral calls with international partners
- ERA Nets
- EU Framework programme
- ESF Eurocores

BBSRC funded researchers can add a further international dimension to BBSRC-funded research through:

- **ISIS:** single visits no deadline, any country
- **Workshops:** annual call (usually September), any country/countries
- **Partnering awards** up to 4 years of interactions and exchanges (no research funding)
annual call (usually September)
USA, Japan, China and India

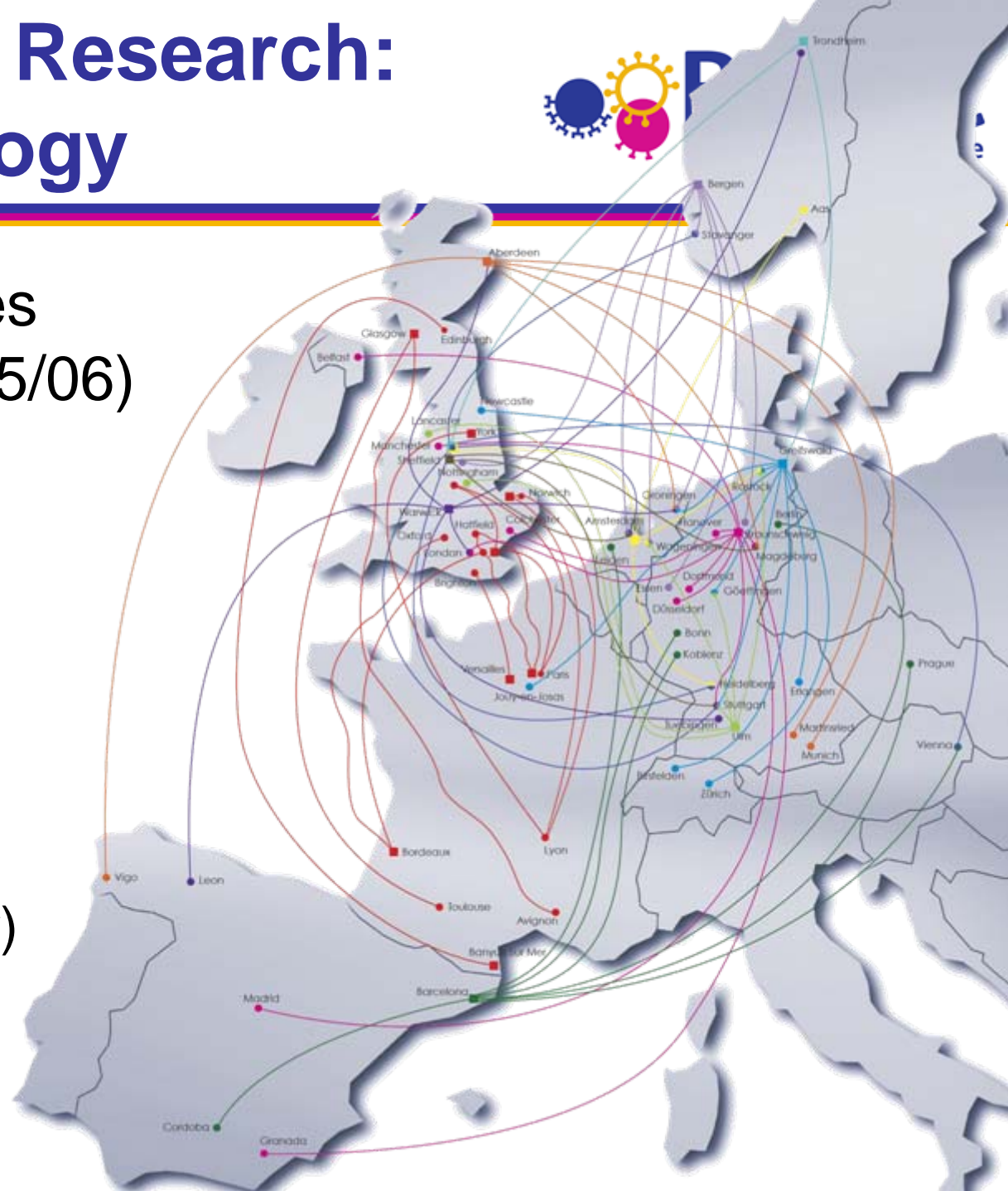
Movement of people: Lead Agency procedure

- Collaboration between national funding agencies
- Support for research across national boundaries
- Uses national mechanisms but avoids double jeopardy

Collaborative Research: Systems Biology



- 6 BBSRC Centres established (2005/06)
- 6 SABR grants (2006/07)
- International collaboration
 - ERASysBio (11 EU partners)
 - BBSRC:ANR (Fr)



BBSRC's innovation activities



Technology Strategy Board
Driving Innovation

IPA
industrial
partnership
awards



Industry Fellowships
Knowledge Transfer Partnerships



Industry Interchange



Parliamentary Office of Science and Technology

BBSRC Industrial Impact Fellowship



enterprise fellowships

biotechnology **yes**
young entrepreneurs scheme



BBSRC
INNOVATOR OF THE YEAR
2009

BBSRC
EXCELLENCE WITH IMPACT
2011



MTI
Modular Training for Industry



Collaborative Research with Industry: Mechanisms

IPA
industrial
partnership
awards



Technology Strategy Board
Driving Innovation



- Academic-led responsive mode research grants with **a minimum of 10% cash contribution** from an industrial partner
- Collaborative, pre-competitive research between one or more companies and one or more research-base partners. **BBSRC support limited to a maximum of 50% of total eligible costs**
- Joint sponsorship of themes under national **Technology Programme**
- Support for Industry **Clubs** to support high quality innovative research in strategic areas

CASE Studentships and Industrial CASE

Collaboration with Industry: People Exchange



- Enables the **short term exchange of individuals**, in either direction, between industry and academia. Requires a significant cash or in-kind contribution from industry



Knowledge
Transfer
Partnerships

- TSB-lead scheme enabling knowledge transfer between academia and industry **via an Associate**. Projects last for 1 to 3 years. 'Post-Doc' KTPs provide one year's funding to embed the outcomes of a CASE PhD into the industrial partner.



BBSRC Industrial
Impact Fellowship

- Funding for **highly skilled research and technology leaders** to take on a significant 'science programme manager' role within Universities.

Contact information



Contacts:

Dr Vicky Jackson
Strategy & Policy Manager
vicky.jackson@bbsrc.ac.uk

International:

Dr Rowan Mckibbin
Strategy & Policy Manager
rowan.mckibbin@bbsrc.ac.uk

Science Delivery Managers:

Dr Jo O'Leary
jo.o'leary@bbsrc.ac.uk

Dr Christopher St. Pourcain
christopher.stpourcain@bbsrc.ac.uk