

2022/23 BBSRC strategic Longer and Larger (sLoLa) grants call:
Summary of active BBSRC awards of value greater than £2 million on 1 April 2022 v1.1

Version History

| Version | Description | Date |
|---------|--|--------------|
| 1.0 | Initial publication | 3 May 2022 |
| 1.1 | Updated to include Institute core projects | 17 June 2022 |

| Grant Reference | Title | Lead research organisation | Initiative |
|------------------|--|--|---|
| BB/N001591/1 | Glycoengineering of Veterinary Vaccines | London Sch of Hygiene & Tropic. Medicine | Longer and Larger Grants (LoLas) |
| BB/P003095/1 | Brassica Rapeseed And Vegetable Optimisation | John Innes Centre | Longer and Larger Grants (LoLas) |
| BB/P001335/1 | Architecture of a biofilm | University of Dundee | Longer and Larger Grants (LoLas) |
| BB/P01738X/1 | [16-FAPESP-BE] Lignin valorization in cellulosic ethanol plants: biocatalytic conversion via ferulic acid to high value chemicals | University of Warwick | BBSRC-Brazil (FAPESP) joint funding of research |
| BBS/E/B/000C0421 | To study epigenetic mechanisms regulating lineage commitment and cell potency | Babraham Institute | Institute core project (CSG) |
| BBS/E/B/000C0422 | To study epigenetic mechanisms that create heterogeneity and functional diversity in stem cells, development and between individuals | Babraham Institute | Institute core project (CSG) |
| BBS/E/B/000C0423 | Epigenetic responses to dietary change across organismal lifespan | Babraham Institute | Institute core project (CSG) |
| BBS/E/B/000C0425 | To study and manipulate heterogeneous epigenetic states that operate during ageing | Babraham Institute | Institute core project (CSG) |

2022/23 BBSRC strategic Longer and Larger (sLoLa) grants call:
Summary of active BBSRC awards of value greater than £2 million on 1 April 2022 v1.1

| | | | |
|------------------|--|---------------------|------------------------------|
| BBS/E/B/000C0427 | Immune homeostasis and the immune response | Babraham Institute | Institute core project (CSG) |
| BBS/E/B/000C0428 | Develop a mechanistic understanding of how transcriptional and posttranscriptional regulation of gene expression is coordinated by signal transduction pathways. | Babraham Institute | Institute core project (CSG) |
| BBS/E/B/000C0431 | How neutrophils detect and resolve infection and how this deteriorates with age | Babraham Institute | Institute core project (CSG) |
| BBS/E/B/000C0432 | How changes in nutrient availability are sensed and shape metabolism and growth | Babraham Institute | Institute core project (CSG) |
| BBS/E/B/000C0433 | Signalling mechanisms that determine the rate of ageing | Babraham Institute | Institute core project (CSG) |
| BBS/E/B/000C0434 | How autophagy and related processes are coordinated and important in adaption to changed nutrient availability and cell damage | Babraham Institute | Institute core project (CSG) |
| BBS/E/C/000I0210 | DFW - Designing Future Wheat - Work package 4 (WP4) - Data access and analysis | Rothamsted Research | Institute core project (CSG) |
| BBS/E/C/000I0220 | DFW - Designing Future Wheat - Work package 1 (WP1) - Increased efficiency and sustainability | Rothamsted Research | Institute core project (CSG) |
| BBS/E/C/000I0250 | DFW - Designing Future Wheat - Work package 2 (WP2) - Added value and resilience | Rothamsted Research | Institute core project (CSG) |
| BBS/E/C/000I0310 | S2N - Soil to Nutrition - Work package 1 (WP1) - Optimising nutrient flows and pools in the soil-plant-biota system | Rothamsted Research | Institute core project (CSG) |
| BBS/E/C/000I0320 | S2N - Soil to Nutrition - Work package 2 (WP2) - Adaptive management systems for improved efficiency and nutritional quality | Rothamsted Research | Institute core project (CSG) |
| BBS/E/C/000I0330 | S2N - Soil to Nutrition - Work package 3 (WP3) - Sustainable intensification - optimisation at multiple scales | Rothamsted Research | Institute core project (CSG) |

2022/23 BBSRC strategic Longer and Larger (sLoLa) grants call:
Summary of active BBSRC awards of value greater than £2 million on 1 April 2022 v1.1

| | | | |
|------------------|--|-------------------------|------------------------------|
| BBS/E/C/00010410 | TPM - Tailoring Plant Metabolism - Work package 2 (WP2) - Designer Willows: high value phenolic glycosides for health and industry | Rothamsted Research | Institute core project (CSG) |
| BBS/E/C/00010420 | TPM - Tailoring Plant Metabolism - Work package 1 (WP1) - High value lipids for health and industry | Rothamsted Research | Institute core project (CSG) |
| BBS/E/C/000J0100 | The North Wyke Farm Platform- National Capability | Rothamsted Research | Institute core project (CSG) |
| BBS/E/C/000J0300 | The Rothamsted Long - Term Experiments - National Capability | Rothamsted Research | Institute core project (CSG) |
| BBS/E/D/10002071 | The function of genes and cellular phenotypes in animal systems | University of Edinburgh | Institute core project (CSG) |
| BBS/E/D/20002173 | Pathogen diversity, host specificity and virulence | University of Edinburgh | Institute core project (CSG) |
| BBS/E/D/20002174 | Host responses underlying immunity | University of Edinburgh | Institute core project (CSG) |
| BBS/E/D/30002276 | Complex phenotypes and genotype x environment interactions | University of Edinburgh | Institute core project (CSG) |
| BBS/E/I/00007030 | Disease Pathogenesis | The Pirbright Institute | Institute core project (CSG) |
| BBS/E/I/00007031 | Recognition and control of virus infections | The Pirbright Institute | Institute core project (CSG) |
| BBS/E/I/00007033 | Viral transmission by insect vectors | The Pirbright Institute | Institute core project (CSG) |
| BBS/E/I/00007034 | Molecular and Systems Virology | The Pirbright Institute | Institute core project (CSG) |
| BBS/E/I/00007035 | Virus diversity and evolution | The Pirbright Institute | Institute core project (CSG) |
| BBS/E/I/00007036 | Transmission and Epidemiology | The Pirbright Institute | Institute core project (CSG) |

2022/23 BBSRC strategic Longer and Larger (sLoLa) grants call:
 Summary of active BBSRC awards of value greater than £2 million on 1 April 2022 v1.1

| | | | |
|-------------------|---|-------------------------|------------------------------|
| BBS/E/I/00007037 | High Containment | The Pirbright Institute | Institute core project (CSG) |
| BBS/E/I/00007038 | Low Containment | The Pirbright Institute | Institute core project (CSG) |
| BBS/E/I/00007039 | Science Services | The Pirbright Institute | Institute core project (CSG) |
| BBS/E/J/000PR9773 | Genome and Epigenome | John Innes Centre | Institute core project (CSG) |
| BBS/E/J/000PR9779 | Increased efficiency and sustainability | John Innes Centre | Institute core project (CSG) |
| BBS/E/J/000PR9780 | Added value and resilience | John Innes Centre | Institute core project (CSG) |
| BBS/E/J/000PR9781 | Germplasm | John Innes Centre | Institute core project (CSG) |
| BBS/E/J/000PR9782 | Data access and analysis | John Innes Centre | Institute core project (CSG) |
| BBS/E/J/000PR9787 | Organogenesis and Plant Architecture | John Innes Centre | Institute core project (CSG) |
| BBS/E/J/000PR9788 | Phenotypic Plasticity in Response to Environmental Challenges | John Innes Centre | Institute core project (CSG) |
| BBS/E/J/000PR9790 | Products and Pathways | John Innes Centre | Institute core project (CSG) |
| BBS/E/J/000PR9791 | Biological Context | John Innes Centre | Institute core project (CSG) |
| BBS/E/J/000PR9794 | Enhanced Research Capacity | John Innes Centre | Institute core project (CSG) |
| BBS/E/J/000PR9795 | Recognition | John Innes Centre | Institute core project (CSG) |
| BBS/E/J/000PR9796 | Response | John Innes Centre | Institute core project (CSG) |
| BBS/E/J/000PR9797 | Susceptibility | John Innes Centre | Institute core project (CSG) |

2022/23 BBSRC strategic Longer and Larger (sLoLa) grants call:
 Summary of active BBSRC awards of value greater than £2 million on 1 April 2022 v1.1

| | | | |
|--------------------|---|------------------------------|--|
| BBS/E/J/000PR9798 | Evolution | John Innes Centre | Institute core project (CSG) |
| BBS/E/T/000PR9783 | Data access and analysis | Earlham Institute | Institute core project (CSG) |
| BBS/E/T/000PR9817 | Computational Developments | Earlham Institute | Institute core project (CSG) |
| BBS/E/T/000PR9818 | Signatures of Domestication and Adaptation | Earlham Institute | Institute core project (CSG) |
| BBS/E/T/000PR9819 | Regulatory interactions and Complex Phenotypes | Earlham Institute | Institute core project (CSG) |
| BBS/E/W/0012843A | BBSRC Core Strategic Programme in Resilient Crops: Miscanthus | Aberystwyth University | Institute core project (CSG) |
| BBS/E/W/0012843D | BBSRC Core Strategic Programme in Resilient Crops: Grasslands Gogerddan | Aberystwyth University | Institute core project (CSG) |
| BB/P003117/1 | Activation of Non-Photosynthetic Leaf Cells for Improved Productivity | University of Cambridge | Longer and Larger Grants (LoLas) |
| BB/R012415/1 | National Biofilms Innovation Centre | University of Southampton | UK Biofilms Programme Biofilms Innovation Centre (IKC) |
| BBS/E/F/000PR10343 | Food Innovation | Quadram Institute Bioscience | Institute core project (CSG) |
| BBS/E/F/000PR10345 | Digestion in the Upper GI Tract | Quadram Institute Bioscience | Institute core project (CSG) |
| BBS/E/F/000PR10346 | Digestion and Fermentation in the Lower GI Tract | Quadram Institute Bioscience | Institute core project (CSG) |
| BBS/E/F/000PR10347 | Regulation of Metabolic Homeostasis | Quadram Institute Bioscience | Institute core project (CSG) |
| BBS/E/F/000PR10348 | Epidemiology and Evolution of Pathogens in the Food Chain | Quadram Institute Bioscience | Institute core project (CSG) |

2022/23 BBSRC strategic Longer and Larger (sLoLa) grants call:
Summary of active BBSRC awards of value greater than £2 million on 1 April 2022 v1.1

| | | | |
|------------------------|---|---------------------------------|---|
| BBS/E/F/000PR1034 9 | Microbial Survival in the Food Chain | Quadram Institute Bioscience | Institute core project (CSG) |
| BBS/E/F/000PR1035 1 | Microbial Communities in the Food Chain | Quadram Institute Bioscience | Institute core project (CSG) |
| BBS/E/F/000PR1035 3 | Determinants of microbe-host responses in the gut across life | Quadram Institute Bioscience | Institute core project (CSG) |
| BBS/E/F/000PR1035 5 | Changes in gut microbe-host interactions and their impact beyond the gut | Quadram Institute Bioscience | Institute core project (CSG) |
| BBS/E/F/000PR1035 6 | Modulation of the gut microbes to promote health throughout life | Quadram Institute Bioscience | Institute core project (CSG) |
| BB/S011269/1 | GCRF One Health Poultry Hub | Royal Veterinary College | GCRF Interdisciplinary Research Hubs (GCRF IRH) |
| BB/T001984/1 | Opportunities to modulate extracellular matrix secretion and assembly for long term health | The University of Manchester | Longer and Larger Grants (LoLas) |
| BB/T002212/1 | Mapping antibody class switch mechanisms and function | King's College London | Longer and Larger Grants (LoLas) |
| BB/T000627/1 | How do RNA-binding proteins control splice site selection? | University of Leicester | Longer and Larger Grants (LoLas) |
| BB/T010886/1 | Bacteria: Advancement of Control and Knowledge to Save Threatened Oak and Protect them for Future Generations | Forest Research | Bacterial Plant Diseases |
| BB/T002182/1 | What determines protein abundance in plants? | Rothamsted Research | Longer and Larger Grants (LoLas) |
| BB/V004719/1 | Healthy soil, Healthy food, Healthy people (H3) | University of Sheffield | Transforming the UK food system |

2022/23 BBSRC strategic Longer and Larger (sLoLa) grants call:
Summary of active BBSRC awards of value greater than £2 million on 1 April 2022 v1.1

| | | | |
|--------------|--|-------------------------------------|--|
| BB/V003577/1 | Deciphering the function of intrinsically disordered protein regions in a cellular context | University of Leeds | Longer and Larger Grants (LoLas) |
| BB/V004581/1 | Transformations to Regenerative Food Systems | University of York | Transforming the UK food system |
| BB/V004905/1 | Co-production of healthy, sustainable food systems for disadvantaged communities | University of Reading | Transforming the UK food system |
| BB/V003534/1 | SUMOcode: deciphering how SUMOylation enables plants to adapt to their environment | Durham University | Longer and Larger Grants (LoLas) |
| BB/V004832/1 | Transforming Urban Food Systems for Planetary and Population Health (The Mandala Consortium) | University of Cambridge | Transforming the UK food system |
| BB/V003518/1 | Regulation of epithelial and endothelial cell-cell junctions by mechanical forces | University of Bristol | Longer and Larger Grants (LoLas) |
| BB/V011553/1 | Perennial Biomass Crops for Greenhouse Gas Removal | Aberystwyth University | Greenhouse Gas Removal Demonstrators (GGR-SPF) |
| BB/V011596/1 | Biochar Demonstrator Addressing Key Deployment Barriers for Carbon Sequestration | University of Nottingham | Greenhouse Gas Removal Demonstrators (GGR-SPF) |
| BB/V003542/1 | Origins of Biology: How energy flow structures metabolism and heredity at the origin of life | University College London | Longer and Larger Grants (LoLas) |
| BB/V011359/1 | Greenhouse gas removal with UK agriculture via enhanced rock weathering | University of Sheffield | Greenhouse Gas Removal Demonstrators (GGR-SPF) |
| BB/V011561/1 | Greenhouse Gas Removal by Accelerated Peat Formation | UK Centre for Ecology and Hydrology | Greenhouse Gas Removal Demonstrators (GGR-SPF) |

2022/23 BBSRC strategic Longer and Larger (sLoLa) grants call:
 Summary of active BBSRC awards of value greater than £2 million on 1 April 2022 v1.1

| | | | |
|--------------|---|---------------------------|--|
| BB/V011588/1 | Greenhouse Gas Removal Plus (GGR+): Sustainable Treescapes Demonstrator & Decision Tools | University of Exeter | Greenhouse Gas Removal Demonstrators (GGR-SPF) |
| BB/W003392/1 | Neuromodulatory-prefrontal interactions in primates | University of Oxford | Longer and Larger Grants (LoLas) |
| BB/W00349X/1 | Single-molecule proteomics: next-generation analysis of proteins in individual cells | University of Oxford | Longer and Larger Grants (LoLas) |
| BB/W003538/1 | Rewriting The Genetic Code: The Algal Plastome As A Testbed For Basic And Applied Studies | University College London | Longer and Larger Grants (LoLas) |

Project summaries are available on [Gateway to Research](#) for the majority of awards.

^a Awards may involve collaborations between researchers based in different Research Organisations or awards transferred between Research organisations. Only the lead Research Organisation is shown.