

**2023/24 BBSRC strategic Longer and Larger (sLoLa) funding opportunity:
Summary of BBSRC awards greater than £2 million (31 March 2023)**

Grant Reference	Title	Lead Research Organisation	Initiative
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/S011269/1	GCRF One Health Poultry Hub	Royal Veterinary College	GCRF Interdisciplinary Research Hubs (GCRF IRH)
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/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 & Hydrology	Greenhouse Gas Removal Demonstrators (GGR-SPF)
BB/V011588/1	Greenhouse Gas Removal Plus (GGR+): Sustainable Treescapes Demonstrator & Decision Tools	University of Exeter	Greenhouse Gas Removal Demonstrators (GGR-SPF)
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)
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)

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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)
BBS/E/C/000I0410	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/000I0420	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/000J0200	The Rothamsted Insect Survey - 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)

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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/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)
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)

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BBS/E/J/000PR9796	Response	John Innes Centre	Institute core project (CSG)
BBS/E/J/000PR9797	Susceptibility	John Innes Centre	Institute core project (CSG)
BBS/E/J/000PR9798	Evolution	John Innes Centre	Institute core project (CSG)
BBS/E/J/000PR9799	Crop Quality	John Innes Centre	Institute core project (CSG)
BBS/E/T/000PR9783	Data access and analysis	Earlham Institute	Institute core project (CSG)
BBS/E/T/000PR9816	Supporting EIs ISPs and the UK Community with Genomics and Single Cell 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/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)
BBS/E/F/000PR10349	Microbial Survival in the Food Chain	Quadram Institute Bioscience	Institute core project (CSG)
BBS/E/F/000PR10351	Microbial Communities in the Food Chain	Quadram Institute Bioscience	Institute core project (CSG)
BBS/E/F/000PR10353	Determinants of microbe-host responses in the gut across life	Quadram Institute Bioscience	Institute core project (CSG)
BBS/E/F/000PR10355	Changes in gut microbe-host interactions and their impact beyond the gut	Quadram Institute Bioscience	Institute core project (CSG)
BBS/E/F/000PR10356	Modulation of the gut microbes to promote health throughout life	Quadram Institute Bioscience	Institute core project (CSG)
BB/P003117/1	Activation of Non-Photosynthetic Leaf Cells for Improved Productivity	University of Cambridge	Longer and Larger Grants (LoLas)

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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/T000627/1	How do RNA-binding proteins control splice site selection?	University of Leicester	Longer and Larger Grants (LoLas)
BB/T002182/1	What determines protein abundance in plants?	Rothamsted Research	Longer and Larger Grants (LoLas)
BB/V003577/1	Deciphering the function of intrinsically disordered protein regions in a cellular context	University of Leeds	Longer and Larger Grants (LoLas)
BB/V003534/1	SUMOcode: deciphering how SUMOylation enables plants to adapt to their environment	Durham University	Longer and Larger Grants (LoLas)
BB/V003518/1	Regulation of epithelial and endothelial cell-cell junctions by mechanical forces	University of Bristol	Longer and Larger Grants (LoLas)
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/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)
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/X003027/1	Generalised Photocatalysis by Enzymes (GENPENZ)	The University of Manchester	Longer and Larger Grants (LoLas)
BB/X003035/1	Understanding an ancient universal membrane effector system	University of York	Longer and Larger Grants (LoLas)
BB/X00306X/1	Novel Plastizymes: discovery and improvement of plastic-degrading enzymes by integrated cycles of computational and experimental approaches	University of Cambridge	Longer and Larger Grants (LoLas)
BB/X003086/1	Unlocking the secrets of specialised ribosomes across eukaryotes	University of Leeds	Longer and Larger Grants (LoLas)
BB/W003449/1	Creating and comprehending the circuitry of life: precise biomolecular design of multi-centre redox enzymes for a synthetic metabolism	University of Bristol	Longer and Larger Grants (LoLas)

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BB/X003051/1	Multi-layered bacterial genome defences: linking molecular mechanisms to bacteria-MGE conflicts in single cells, populations, and communities.	University of Exeter	Longer and Larger Grants (LoLas)
BB/X002950/1	National Biofilms Innovation Centre	University of Southampton	National Biofilms Phase 2
BB/V004719/1	Healthy soil, Healthy food, Healthy people (H3)	University of Sheffield	Transforming the UK food system
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/V004832/1	Transforming Urban Food Systems for Planetary and Population Health (The Mandala Consortium)	University of Cambridge	Transforming the UK food system
BB/W017946/1	'Raising the Pulse' (RtP): Systems analysis of the environmental, nutritional and health benefits of pulse-enhanced foods	University of Reading	Transforming the UK food system
BB/W018012/1	Pasture to Plate (P2P): realising the enormous potential of UK grasslands	Harper Adams University	Transforming the UK food system

Notes:

1. Project summaries are available on [Gateway to Research](#) for the majority of awards.
2. Information on the Institute Strategic Programme Grant investments (and their constituent Institute Core Projects) at the BBSRC strategically supported institutes is currently being refreshed following the most recent Institute Assessment Exercise. Further information on the strategically supported institutes can be found here: <https://www.ukri.org/about-us/bbsrc/who-we-are/strategically-funded-institutes/>