

2024-25 Strategic Longer and larger (sLoLa) funding opportunity: Summary of BBSRC awards greater than £2 million (01 April 2024).

Link	Project Title	Project Lead Organisation	Initiative
BB/V011553/1	Perennial Biomass Crops for Greenhouse Gas Removal	Aberystwyth University	Greenhouse Gas Removal Demonstrators (GGR-SPF)
Institute Programme	Resilient Crops	Aberystwyth University	BBSRC Institute Strategic Programme Grant
Institute Programme	Immunology: Molecular & Cellular Mechanisms of Host Defence and Immunosenescence	Babraham Institute	BBSRC Institute Strategic Programme Grant
Institute Programme	Signalling: Molecular mechanisms underpinning healthy ageing	Babraham Institute	BBSRC Institute Strategic Programme Grant
Institute Programme	Epigenetics: Epigenetics and cellular heterogeneity in development and ageing	Babraham Institute	BBSRC Institute Strategic Programme Grant
BB/Y008332/1	Environmental Biotechnology Innovation Centre	Cranfield University	Engineering Biology Mission Hubs and Awards
BB/V003534/1	SUMOcode: deciphering how SUMOylation enables plants to adapt to their environment	Durham University	Longer and Larger Grants (LoLas)
Institute Programme	Cellular Genomics (CELLGEN)	Earlham Institute	BBSRC Institute Strategic Programme Grant
Institute Programme	Decoding Biodiversity (DECODE)	Earlham Institute	BBSRC Institute Strategic Programme Grant
BB/W018012/1	Pasture to Plate (P2P): realising the enormous potential of UK grasslands	Harper Adams University	Transforming the UK food system
Institute Programme	Building Robustness in Crops	John Innes Centre	BBSRC Institute Strategic Programme Grant

Institute Programme	Delivering Sustainable Wheat	John Innes Centre	BBSRC Institute Strategic Programme Grant
Institute Programme	Harnessing Biosynthesis for Sustainable Food and Health	John Innes Centre	BBSRC Institute Strategic Programme Grant
Institute Programme	Food Microbiome and Health	Quadram Institute Bioscience	BBSRC Institute Strategic Programme Grant
Institute Programme	Microbes and Food Safety	Quadram Institute Bioscience	BBSRC Institute Strategic Programme Grant
BB/Y00325X/1	Development of a Chemoproteomics Centre of Excellence: A Prosperity Partnership for Drug Discovery in Northern Ireland	Queen's University of Belfast	BBSRC Prosperity Partnerships
BB/T002182/1	What determines protein abundance in plants?	Rothamsted Research	Longer and Larger Grants (LoLas)
Institute Programme	Green Engineering - knowledge-based delivery of sustainable products in plants	Rothamsted Research	BBSRC Institute Strategic Programme Grant
Institute Programme	Growing Health - bio-inspired solutions for healthier agroecosystems	Rothamsted Research	BBSRC Institute Strategic Programme Grant
Institute Programme	Resilient Farming Futures	Rothamsted Research	BBSRC Institute Strategic Programme Grant
Institute Programme	Towards Clean, Green and Net-Zero Agriculture (AgZero+)	Rothamsted Research	BBSRC Institute Strategic Programme Grant
BB/S011269/1	GCRF One Health Poultry Hub	Royal Veterinary College	GCRF Interdisciplinary Research Hubs (GCRF IRH)
BB/Y008723/1	Land Use for Net Zero Hub	The James Hutton Institute	Land Use Net Zero (LUNZ)
Institute			BBSRC Institute Strategic

Programme	Host Responses to Viral Infection	The Pirbright Institute	Programme Grant
Institute Programme	Virus Life Cycles at Multiple Scales	The Pirbright Institute	BBSRC Institute Strategic Programme Grant
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/X003027/1	Generalised Photocatalysis by Enzymes (GENPENZ)	The University of Manchester	Longer and Larger Grants (LoLas)
BB/Y003195/1	Rules of life in CO2-driven microbial communities: Microbiome engineering for a Net Zero future	The University of Manchester	Longer and Larger Grants (LoLas)
BB/Y003233/1	Melanin's impact on skin behaviour: Effects across the pigimentary spectrum.	The University of Manchester	BBSRC Prosperity Partnerships
BB/Y003276/1	SuCCEED: Sustainable Commodity Chemicals through Enzyme Engineering & Design	The University of Manchester	BBSRC Prosperity Partnerships
BB/V011561/1	Greenhouse Gas Removal by Accelerated Peat Formation	UK Centre for Ecology & Hydrology	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/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/Y003292/1	Decarbonising the Surfactant and Functional Polymer Value Chains by enzymatic processes	University College London	BBSRC Prosperity Partnerships
BB/V003518/1	Regulation of epithelial and endothelial cell-cell junctions by mechanical forces	University of Bristol	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)
BB/V004832/1	Transforming Urban Food Systems for Planetary and Population Health (The Mandala Consortium)	University of Cambridge	Transforming the UK food system

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/Y003179/1	Deciphering Cellular Niches and Cross-talk in Human Heart Development (CellTalkHHD)	University of Cambridge	Longer and Larger Grants (LoLas)
BB/Y002997/1	BBSRC Institute Strategic Programme: Advancing Plant Health (APH) Partner Grant	University of East Anglia	BBSRC Institute Strategic Programme Partner Grant
BB/Y008545/1	Engineered Genetic Control Systems for Advanced Therapeutics	University of Edinburgh	Engineering Biology Mission Hubs and Awards
Institute Programme	Genes & Traits for Healthy Animals	University of Edinburgh	BBSRC Institute Strategic Programme Grant
Institute Programme	Prevention & Control of Infectious Diseases	University of Edinburgh	BBSRC Institute Strategic Programme Grant
BB/V011588/1	Greenhouse Gas Removal Plus (GGR+): Sustainable Treescapes Demonstrator & Decision Tools	University of Exeter	Greenhouse Gas Removal Demonstrators (GGR-SPF)
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/Y008456/1	Engineering Biology Hub for environmental processing and recovery of metals; from contaminated land to industrial biotechnology in a circular economy	University of Kent	Engineering Biology Mission Hubs and Awards
BB/X003086/1	Unlocking the secrets of specialised ribosomes across eukaryotes	University of Leeds	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/V011596/1	Biochar Demonstrator Addressing Key Deployment Barriers for Carbon	University of Nottingham	Greenhouse Gas Removal Demonstrators

Sequestration

BB/Y00311X/1	GlycoWeb	University of Nottingham	Longer and Larger Grants (LoLas)
BB/Y008472/1	GlycoCell Engineering Biology Mission Hub: Transforming glycan biomanufacture for health	University of Nottingham	Engineering Biology Mission Hubs and Awards
BB/Y512333/1	PhenomUKRI The UK Plant and Crop Phenotyping Infrastructure	University of Nottingham	UK plant and crop phenotyping infrastructure (UKPCPI)
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/Y007972/1	Preventing Plastic Pollution with Engineering Biology (P3EB) Mission Hub	University of Portsmouth	Engineering Biology Mission Hubs and Awards
BB/V004905/1	Co-production of healthy, sustainable food systems for disadvantaged communities	University of Reading	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/V004719/1	Healthy soil, Healthy food, Healthy people (H3)	University of Sheffield	Transforming the UK food system
BB/V011359/1	Greenhouse gas removal with UK agriculture via enhanced rock weathering	University of Sheffield	Greenhouse Gas Removal Demonstrators (GGR-SPF)
BB/Y012909/1	Co-Centre for SUsustainable and REsilient FOOD systems (SUREFOOD-I)	University of Sheffield	SUsustainable and REsilient FOOD systems (SUREFOOD-I)

BB/X002950/1	National Biofilms Innovation Centre	University of Southampton	National Biofilms Phase 2
BB/Y003268/1	A Prosperity Partnership for the Design of Next-Generation Antibody Drug Bioconjugates (Next-Gen ADC)	University of Strathclyde	BBSRC Prosperity Partnerships
BB/Y003187/1	Cell Wall Formation in Rod Shaped Bacteria	University of Warwick	Longer and Larger Grants (LoLas)
BB/V004581/1	Transformations to Regenerative Food Systems	University of York	Transforming the UK food system
BB/X003035/1	Understanding an ancient universal membrane effector system	University of York	Longer and Larger Grants (LoLas)

Project summaries are available on [Gateway to Research](#) for the majority of awards. Information about Institute Strategic Programmes is available [on the UKRI website](#). The projects listed for Babraham Institute are supported by funding from BBSRC's previous Institute assessment exercise in 2017.