

## China Partnering Awards

### BBSRC's support for facilitating international collaborations with China

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 China Partnering Awards have been established by BBSRC to specifically support UK-China collaborative activity. China Partnering Awards provide resources to leading BBSRC-funded researchers and groups, so that they have the resources to establish long-term relationships with Chinese scientists in areas of research that are of direct relevance to BBSRC's current scientific strategy.

The first annual call for the China Partnering Awards scheme was announced by BBSRC in 2003. Awards of up to £30,000, covering a four-year period, have typically been awarded. Since 2010, BBSRC has funded 54 China Partnering Awards, providing a financial contribution of approximately £1.5M.

Funding from China 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 China 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.

A list of proposals that have been awarded by BBSRC since 2003 is shown below.

### Contacts

Any queries regarding the China Partnering Awards scheme should be addressed to:

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## PREVIOUS AWARDS 2003 - 2020

### 2020 Call

**UK-China partnership: Chromosomal Instability aiding Genetic Variants (CIVa) linked to human ageing**

£23,490

UK lead partner	Professor Viji Draviam, Queen Mary University of London
Chinese partner	Jingyan Fu, China Agricultural University; Xiangyu Liu, Tsinghua University; Xiao-Li Tian, Nanchang University

**Understanding the molecular basis of insecticides and associated resistance in crop pests**

£18,000

UK lead partner	Professor Philip Biggin, University of Oxford
Chinese partner	Chunqing Zhao, Nanjing Agricultural University

### 2019 Call

**China Partnering Award: Transgene-free Gene Editing in Plants**

£29,600

UK lead partner	Dr Stephen Jackson, University of Warwick
Chinese partner	Yiguo Hong, Life and Environmental Sciences, Hangzhou Normal University

### 2018 Call

**China Partnering Award: Does chloroplast reactive oxygen underpin plant disease resistance?**

£29,600

UK lead partner	Professor Murray Grant, School of Life Sciences, University of Warwick
Chinese partner	Dr Chanhong Kim, Shanghai Center for Plant Stress Biology, Chinese Academy of Sciences

**China - UK Partnering Award: Breeding and health for robustness in aquaculture**

£29,980

UK lead partner	Professor Herve Migaud, Institute of Aquaculture, University of Stirling
UK partners	Professor Samuel Martin, Institute of Biological and Environmental Science, University of Aberdeen; Professor Charles Tyler, Department of Biosciences, University of Exeter; Professor Ross Houston, The Roslin Institute, University of Edinburgh
Chinese partners	Professor Chunlin Wang, Ningbo University; Professor Yongxu Chen, College of Fisheries and Life Science, Shanghai Ocean University; Professor Jiteng Wang, Department of Aquaculture, Zhejiang Ocean University

## UKRI - BBSRC CHINA PARTNERING AWARDS 2003 - 2020

### Improving wheat grain quality by exploiting novel sources of genetic variation

£30,000

UK lead partner	Professor Peter Shewry, Department of Plant Sciences, Rothamsted Research
Chinese partner	Professor Youliang Zheng, Triticeae Research Institute, Sichuan Agricultural University

### China Partnering Award: Imperial College London - China collaboration on *Actinobacillus pleuropneumoniae* vaccines, diagnostics, and pathogenesis

£30,000

UK lead partner:	Professor Paul Langford, Department of Medicine, Imperial College London
Chinese partners:	Professor Rui Zhou, College of Veterinary Medicine, Huazhong Agricultural University; Professor Liancheng Lei, Jilin University; Professor Sanjie Cao, Sichuan Agricultural University; Professor Chunlai Wang, Department of Bacterial Diseases, Harbin Veterinary Research Institute

## 2017 Call

### A China-UK joint phenomics consortium to dissect the basis of crop stress resistance in the face of climate change

£30,000

UK lead partner:	Professor John Doonan, IBERS, Aberystwyth University
Chinese partners:	Professor Ganghua Li, Nanjing Agricultural University; Professor Wanneng Yang, National Key Laboratory of Crop Genetic, Huazhong Agricultural University

### China Partnering Awards - Forge a long-term UK-China relationship in phenotyping, Agri-Tech innovation and crop research for Rice and Wheat

£29,941

UK lead partner:	Dr Ji Zhou, Earlham Institute
Chinese partner:	Professor Yan-feng Ding, Nanjing Agricultural University

### China Partnering Award: Emerging Approaches to Intracellular Signaling

£30,000

UK lead partner:	Professor Nikita Gamper, Institute of Membrane & Systems Biology, University of Leeds
Chinese lead partners:	Professor Hailin Zhang, Hebei Medical University

### Understanding biology of apple canker pathogens for effective disease management

£28,600

UK lead partner:	Professor Xiangming Xu, National Institute of Agricultural Botany
Chinese partners:	Professor Baohua Li, College of Agronomy and Plant Protection, Qingdao Agricultural University; Professor Lili Huang, Northwest A and F University

**2016 Call**

**China Partnering Award: towards a common toolkit for oilseed rape research**

£24,800

UK lead partner:	Professor Steven Penfield, Department of Crop Genetics, John Innes Centre
Chinese partner:	Professor Shengyi Liu, Oilseed rape department, Chinese Academy of Agricultural Sciences

**China: A Virtual Centre for Monitoring the Rhizosphere**

£30,000

UK lead partner:	Dr W Whalley, Department of Sustainable Soils and Grassland Systems, Rothamsted Research
Chinese partner:	Professor Tusheng Ren, College of Resources and Environment, China Agricultural University
Industry partner:	Mr Dick Jenkins, Delta-T Devices Ltd

**China Partnering Award: Emerging bee pathogens and the development of pollination as a sustainable ecosystem service in China**

£30,000

UK lead partner:	Dr Lena Wilfert, Department of Biosciences, University of Exeter
Chinese partner:	Professor Chunsheng Hou, Institute of Apicultural Research, Chinese Academy of Agricultural Sciences

**2015 Call**

**A UK-China partnership to understand the genetic architecture of the *Colletotrichum gloeosporoides* - *Fragaria x ananassa* interaction**

£29,260

UK lead partner:	Dr Richard Harrison, East Malling Research
Chinese partners:	Professor Qing Hua Gao, Department of Forest and Fruit Trees, Shanghai Academy of Agricultural Science; Professor Zhihong Gao, Nanjing Agricultural University

**Proteomics Data Exchange**

£30,000

UK lead partner:	Mr Henning Hermjakob, Proteomics Services Team, EMBL - European Bioinformatics Institute
Chinese partner:	Dr Jun Qin, Department of Bioinformatics, National Center for Protein Sciences

**Exchange of vaccine technology for delivery of oral vaccines to mucosal surfaces**

£30,000

UK lead partner:	Professor Tom Wileman, Norwich Medical School, University of East Anglia
UK partner:	Dr Penny Powell, Norwich Medical School, University of East Anglia
Chinese lead partners:	Professor Zhidong Zhang, Department of Viral Diseases in Grazing Animals, Lanzhou Veterinary Research Institute;

## UKRI - BBSRC CHINA PARTNERING AWARDS 2003 - 2020

	Professor Zengjun Lu, Department of Epidemiology, Lanzhou Veterinary Research Institute Dr Xingwen Bai, Department of Antiviral Infection and Immunobiology, Lanzhou Veterinary Research Institute Professor Zhong Huang, Department of Vaccinology and Antiviral Strategies, Institute Pasteur Shanghai Professor Gang Long, Department of Virus Assembly and Host Interaction, Institute Pasteur Shanghai
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### 2014 Call

#### **China Partnering Award: Nutrition, the ageing lipidome and mitochondrial dysfunction**

£24,925

UK lead partner:	Professor Helen Griffiths, School of Life and Health Sciences, Aston University
UK partner:	Professor Chris Hewitt, School of Life and Health Sciences, Aston University
Chinese partner:	Xi'an Jiaotong University

#### **A China-UK consortium to reduce environmental pollution with novel grass varieties**

£28,375

UK lead partner:	Dr Michael Humphreys, IBERS, Aberystwyth University
Chinese partners:	Professor Yuanhuai Han, Shanxi Agricultural University; Professor Juying Wu, Center for Grass and Environment, Beijing Academy Agriculture/Forestry

#### **Sharing of metabolomics data and their analyses as Galaxy workflows through a UK-China collaboration**

£30,000

UK lead partner:	Dr Chris Steinbeck, Department of Chemoinformatics and Metabolism, EMBL-European Bioinformatics Institute
Chinese partner:	Dr Peter Li, Giga Science, Beijing Genomics Institute

### 2013 Call

#### **UK-China partnership to develop durable late blight disease resistance in potato**

£29,200

UK lead partner:	Paul Birch, College of Life Sciences, University of Dundee
Chinese partners:	Zhendong Tian, Huazhong Agricultural University; Ingo Hein, Cell & Molecular Sciences, The James Hutton Institute

#### **The Attenuation of Serotype A Foot-and-Mouth Disease Viruses**

£30,000

UK lead partner:	Martin Ryan, Biology, University of St Andrews
Chinese partner:	Zihe Rao, Biomedical Engineering, Tsinghua University

#### **Developing DNA-barcodes for ecologically important eukaryotic microbes**

£30,000

UK lead partner:	Mark Wilkinson, Life Sciences, The Natural History Museum
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## UKRI - BBSRC CHINA PARTNERING AWARDS 2003 - 2020

Chinese partner:	Zhenzhen Yi, Life Science, South China Normal University
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### China Partnering Award: Agri-Bioscience for Sustainable Food Security

£29,520

UK lead partner:	Kenneth Wilson, Lancaster Environment Centre, Lancaster University
Chinese partner:	Kongming Wu, The Institute of Plant Protection, Chinese Academy of Agricultural Sciences

## 2012 Call

### China : UK collaborative exchange: Systemic signalling in plants

£24,800

UK lead partner:	Stephen Jackson, School of Life Sciences, University of Warwick
Chinese partner:	Yiguo Hong, Department of Life and Environmental Sciences, Hangzhou Normal University

### Exploitation of related species for developing superior adapted wheat varieties

£24,000

UK lead partner:	Julie King, School of Biosciences, University of Nottingham
Chinese partner:	Fangpu Han, Institute of Genetics and Development Biology, Chinese Academy of Sciences

### China-Imperial College London collaboration: *Actinobacillus pleuropneumoniae* - population biology, pathogenicity and vaccine development

£24,400

UK lead partner:	Paul Langford, Department of Medicine, Imperial College London
Chinese lead partner:	Liancheng Lei, Jilin University

### Soil bioscience for sustainable food security

£46,500

UK lead partner:	Nicholas Ostle, NERC Centre for Ecology and Hydrology
Chinese lead partner:	Chunling Luo, Guangzhou Institute of Geochemistry, Chinese Academy of Sciences

### China-UK Partnership to Develop Biotechnology Applications of Novel Heparinoids and Sulfated Polysaccharides

£42,500

UK lead partner:	Jeremy Turnbull, Institute of Integrative Biology, University of Liverpool
Chinese lead partner:	Zebo Huang, Wuhan University

## 2011 Call

### Developing a network model of caloric restriction in the mouse

£22,710

UK lead partner:	John Speakman, Institute of Biological and Environmental Sciences, University of Aberdeen
Chinese partner:	Wei Li, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences

### Exploring the integration of LCA elements into early stage bioenergy research

## UKRI - BBSRC CHINA PARTNERING AWARDS 2003 - 2020

£24,855

UK lead partner:	Marcelle McManus, Mechanical Engineering, University of Bath
Chinese partner:	Shizhong Li, Institute of New Energy Technology, Tsinghua University

### **Models of mixed respiratory infections in pigs - functional genomics, vaccines and diagnostic development**

£23,500

UK lead partner:	Alexander Tucker, Department of Veterinary Medicine, University of Cambridge
Chinese partner:	Rui Zhou, College of Animal Sciences, Huazhong Agricultural University

### **China:UK collaborative exchange: Microbes, metabolism and ageing**

£22,632

UK lead partner:	David Weinkove, Department of Biological and Biomedical Sciences, Durham University
Chinese lead partner:	Liping Zhao, School of Life Sciences & Biotechnology, Shanghai Jiao Tong University

### **China-Vietnam-United Kingdom Partnership in combating viral diseases of poultry**

£24,000

UK lead partner:	Venugopal Nair, Department of Avian Infectious Diseases, The Pirbright Institute
Chinese lead partner:	Xiao Mei Wang, Division of Avian Infectious Diseases, Harbin Veterinary Research Institute

### **The epidemiology of zoonotic arboviruses in China and Vietnam: establishing arbovirus reference collections.**

£25,000

UK lead partner:	Houssam Attoui, Department of Vector Borne Diseases, The Pirbright Institute
Chinese lead partner:	Xiaohong Sun, Division of Virology, Chinese Academy of Inspection and Quarantine

### **Developing a research network for the application of wheat genomics in the UK and China**

£20,149

UK lead partner:	Michael Bevan, Department of Cell and Development Biology, John Innes Centre
Chinese lead partner:	Bin Han, National Centre for Genome Research, Shanghai Institutes of Biological Sciences

### **Building Links between JIC and CAS: Towards a CAS-JIC Joint Centre**

£30,000

UK lead partner:	Giles Oldroyd, Department of Disease and Stress Biology, John Innes Centre
Chinese lead partner:	Bin Han, National Centre for Genome Research, Shanghai Institutes of Biological Sciences

**China & the UK: supercomputing systems biology**

£32,400

UK lead partner:	Hans Westerhoff, Department of Chemical Engineering and Analytical Science, University of Manchester
Chinese lead partner:	Jianping Yin, College of Computer Science, National University of Defence Technology

**Pig Feed Efficiency: Application of systems integrative biology and transgenic technologies**

£25,000

UK lead partner:	Simon Welham, School of Biosciences, University of Nottingham
Chinese lead partner:	Shuhong Zhao, College of Animal Science, Huazhong Agricultural University

**China - Integrative approaches to understanding and improving nutrient uptake efficiencies of crop species**

£25,000

UK lead partner:	Thomas Hodgman, School of Biosciences, University of Nottingham
Chinese lead partner:	Ping Wu, Department of Life Sciences, Zhejiang University

**Establishing common standards and curation practices: towards real world biosharing.**

£25,000

UK lead partner:	Susanna Sansone, Oxford e-Research Centre, University of Oxford
Chinese lead partner:	Scott Edmunds, Beijing Genomics Institute

**UK-China Collaboration for production of biologically active homoisoprenoids and their eventual use for pest control**

£24,000

UK lead partner:	John Pickett, Biological Chemistry Division, Rothamstead Research
Chinese lead partner:	Jianqiang Wu, Key Laboratory of Economic Plants and Biotechnology, Kunming Institute of Botany

**China partnering: exploiting actinobacteria from extreme environment**

£23,400

UK lead partner:	Paul Dyson, Institute of Life Science Medical School, Swansea University
Chinese lead partner:	Li-Zhe An, Arid Environment & Paleoclimate Research, Lanzhou University

**Thailand Campylobacter and chicken project**

£28,000

UK lead partner:	Tom Humphrey, Veterinary Clinical Science, University of Liverpool
Chinese lead partner:	Aj Amaret, Royal Golden Jubilee Programme, Thailand Research Fund



**2010 Call**

**Farm animal genetic diversity and host innate immune responses to infections of global importance**

£37,800

UK lead partner:	Kin-Chow Chang, School of Veterinary Medicine and Science, University of Nottingham
Chinese lead partner:	Shuhong Zhao, College of Animal Science, Huazhong Agricultural University

**African swine fever virus: Understanding virus host interactions and improving control strategies**

£21,900

UK lead partner:	Linda Dixon, Vector Borne Diseases Department, The Pirbright Institute
Chinese lead partner:	Zhillang Wang, Diagnostic Centre Exotic Animal Diseases, China Animal Health and Epidemiology

**Investigating synergies between advanced bioprocess monitoring and production of valuable marine bioproducts**

£15,300

UK lead partner:	Brian McNeil, Institute of Pharmacy and Biomedical Science, University of Strathclyde
Chinese lead partner:	Wei Cong, State key Laboratory of Biochemical Engineering, Institute of Process Engineering, CAS

**Soils for Sustainable Agriculture and Environment**

£24,560

UK lead partner:	Philip Murray, North Wyke Research, Rothamsted Research
Chinese lead partner:	Fusuo Zhang, Center of International Agricultural, China Agricultural University

**UK-China partnership to control Peste-des-petits-ruminants (PPR)**

£24,951

UK lead partner:	Satya Parida, Livestock Infectious Diseases Department, The Pirbright Institute
Chinese lead partner:	Jingyue Bao, Centre for Exotic Animal Disease Diagnosis, China Animal Health and Epidemiology Centre

**Surrey and Shanghai Jiao Tong partnership on visceral organ sensory research during ageing**

£24,812

UK lead partner:	Changhao Wu, PostGrad Medical School, University of Surrey
Chinese lead partner:	Weifang Rong, Medical School, Shanghai Jiao Tong University

**2009 Call**

**A Manchester-Beijing Strategic Partnership in Molecular Life Sciences**

£27,910

UK lead partner:	Martin Lowe, Faculty of Life Sciences, University of Manchester
Chinese lead partner:	Shilai Bao, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences

**Biological and bioinformatic analysis of foot-and-mouth disease virus (FMDV) within the Yak (*Bos grunniens*)**

£24,600

UK lead partner:	Michael Watson, Head of Bioinformatics, The Pirbright Institute
Chinese lead partner:	Yang Zhong, Director, Institute of Biodiversity Science and Geobiology, Tibet University and Director, Center for Evolutionary Biology, Fudan University

**Exploring the genetics of stem digestibility and biofuel potential in rice**

£25,000

UK lead partner:	Simon McQueen-Mason, CNAP, Biology Department, University of York
Chinese lead partner:	Yinbo Gan, Department of Agronomy, College of Agriculture and Biotechnology, Zhejiang University

**The Immunology of Poultry Vaccination**

£25,000

UK lead partner:	Colin Butter, Avian Infectious Diseases, The Pirbright Institute
Chinese lead partner:	George Fu Gao, Director-General, Center for Molecular Immunology, Institute of Microbiology, Chinese Academy of Sciences

**Improving the UK knowledge-base on sugar-storing cereals for biofuels**

£32,720

UK lead partner:	Trevor Wang, Associate Head of Metabolic Biology, John Innes Centre
Chinese lead partner:	Hai-Chun Jing, Acting Director, Centre for Bioenergy Plants Research and Development (CBPRD), Institute of Botany, Chinese Academy of Sciences

**UK-China partnership for innovative technologies for detection of environmental pollutants in animal feed and animal-derived food**

£23,100

UK lead partner:	Olena Doran, School of Health and Life Sciences, University of the West of England, Bristol
Chinese lead partner:	Gang Chen, Institute of Quality Standards & Testing Technology for Agro-Products (IQSTAP), Chinese Academy of Agricultural Sciences

**Southampton-Shanghai partnership for the posttranscriptional control of mammalian gene expression**

£23,220

UK lead partner:	Christopher Proud, Department of Biological Sciences, University of Southampton
Chinese lead partner:	Cheng Hong, Shanghai Institute of Biochemistry & Cell Biology, IBCB

**System Genetics of health and production traits in pigs**

£25,000

UK lead partner:	DJ de Koning, Department of Genetics and Genomics, Roslin Institute and R(D)SVS, University of Edinburgh
Chinese lead partners:	Lusheng Huang, Key Laboratory for Animal Biotechnology of Jiangxi

## UKRI - BBSRC CHINA PARTNERING AWARDS 2003 - 2020

	Province and the Ministry of Agriculture of China, Jiangxi Agricultural University, Nanchang; Qin Zhang, College of Animal Science & Technology, China Agricultural University, Beijing
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### 2008 Call

#### **Enhanced detection and characterization of emergent influenza A viruses and avian paramyxoviruses (APMV/NDV): An Anglo-Chinese exchange**

£24,790

UK lead partner:	Ian Brown, Veterinary Laboratories Agency
Chinese lead partner:	Malik J Peiris, The University of Hong Kong

#### **Security in supply of safe food and water**

£24,000

UK lead partner:	William John Davies, Lancaster University
Chinese lead partner:	Jia Wensuo, China Agricultural University

#### **UK-China natural products for biopesticides: Developing partnerships for exploiting insecticidal proteins produced by arthropods**

£27,040

UK lead partner:	John Gatehouse, Durham University
Chinese lead partner:	Gong-yin Ye, Zhejiang University

#### **Molecular evolution and sensory performance in bats**

£24,610

UK lead partner:	Gareth Jones, University of Bristol
Chinese lead partner:	Shuyi Zhang, Chinese Academy of Sciences, Beijing

#### **Improving biobutanol production by solventogenic clostridia**

£25,000

UK lead partner:	Nigel Minton, University of Nottingham
Chinese lead partner:	Weihong Jiang, Shanghai Institutes for Biological Sciences

#### **Development of gene array technology to identify health and welfare traits in farm livestock**

£35,200

UK lead partner:	Christopher Wathes, Royal Veterinary College
Chinese lead partner:	Shujun Zhang, Huazhong Agricultural University

### 2007 Call

#### **Leeds-Zhejiang collaboration in sustainable agricultural development**

£24,688

UK lead partner:	Tim Benton, University of Leeds
Chinese lead partner:	J. Cheng, University of Zhejiang

#### **Smart nanoparticle applications in surface plasmon resonance based biosensing**

£25,000

## UKRI - BBSRC CHINA PARTNERING AWARDS 2003 - 2020

UK lead partner:	Elizabeth Hall, University of Cambridge
Chinese lead partners:	Xin Hong, Zhurong Qiu, Tianjin University

### **Detecting alternative splicing and alternative polyadenylation in rice based on large scale microarray data analysis**

£20,500

UK lead partner:	Andrew Harrison, University of Essex
Chinese lead partner:	Ming Chen, Zhejiang University

### **Molecular epidemiology of *Clostridium* spp. in China: Risk of neurotoxin production in food**

£25,000

UK lead partner:	Pradeep Malakar, Institute of Food Research
Chinese lead partners:	Xi Chang Wang, Yong Zhao, Shanghai Fisheries University

### **UK-China marine natural products: Development of partnerships for exploiting cryptic biosynthetic pathways**

£23,253

UK lead partner:	Jem Stach, Newcastle University
Chinese lead partner:	Lixin Zhang, Chinese Academy of Sciences

### **Bacterial foodborne pathogens: Pathogenesis and vaccine development**

£24,000

UK lead partner:	Brendan Wren, London School of Hygiene and Tropical Medicine
Chinese lead partner:	Ying Zeng, Gansu Agricultural University

## **2006 Call**

### **A UK-China “virtual laboratory” for the systems biology of membrane function**

£24,600

UK lead partner:	Stephen Baldwin, Institute of Membrane and Systems Biology, University of Leeds
Chinese lead partner:	Quan Chen, Chinese Academy of Sciences, Beijing

### **UK-China cross-disciplinary partnering network in bioregenerative engineering: establishing collaborative gateways**

£24,700

UK lead partner:	Robert Brown, Tissue Repair and Engineering Centre, University College London
Chinese lead partner:	Wei Liu, Tissue Engineering Centre, JiaoTong University, Shanghai

### **Enhancement of *Bacillus thuringiensis* against new target pests**

£21,000

UK lead partner:	Neil Crickmore, Department of Biochemistry, University of Sussex
Chinese lead partner:	Jie Zhang, Institute of Plant Protection, Chinese Academy of Agricultural Sciences, Beijing

### **Structural proteomics of metallo- and membrane proteins of pathogens**

£28,000

UK lead partner:	Samar Hasnain, CCLRC Daresbury Laboratory
Chinese lead partner:	Zhie Rao, Tsinghua University, Beijing

## UKRI - BBSRC CHINA PARTNERING AWARDS 2003 - 2020

### Bacterial veterinary pathogens – diagnostics and vaccine development

£23,400

UK lead partner:	Paul Langford, Department of Pediatrics, Imperial College London
Chinese lead partner:	Huanchun Chen, College of Veterinary Medicine, Huazhong Agricultural University, Wuhan

### Assessment of pathology and genetics of TSEs in ruminants and mouse models

£25,000

UK lead partner:	Jean Manson, TSE Division, Institute for Animal Health, Edinburgh
Chinese lead partner:	Deming Zhao, College of Veterinary Medicine, Chinese Agricultural University

### UK-China collaborative research platform on avian oncogenic virus disease

£25,000

UK lead partner:	Venugopal Nair, Viral Oncogenesis Group, The Pirbright Institute
Chinese lead partner:	Zhizhong Cui, College of Veterinary Medicine, Shandong Agricultural University

### Integrating molecular networks for male reproduction in Arabidopsis and Rice

£24,950

UK lead partner:	Zoe Wilson, School of Biosciences (Plant Sciences Division), University of Nottingham
Chinese lead partner:	De Ye, China Agricultural University, Beijing

## 2005 Call

### Porcine genomics of muscle production and disease resistance.

£25,560

UK lead partner:	Kin-Chow Chang, Faculty of Veterinary Medicine, University of Glasgow
Chinese lead partner:	Yuhong Su, Jinzhou Medical College

### Bioprocessing and Tissue Engineering Technologies

£25,000

UK lead partner:	Zhanfeng Cui, Engineering Science, Oxford University
Chinese lead partner:	Jinghai Li, Chinese Academy of Science (CAS), Institute of Process Engineering

### Structural studies and utilization of Chinese plant products to improve food quality

£12,680

UK lead partner:	Nazlin Howell, Biomedical and Molecular Sciences, University of Surrey
Chinese lead partner:	Xiangyang Lu, Hunan Agricultural University, Changsha

### White Rose-China Collaboration in Biomaterials and Tissue Engineering

£25,000

UK lead partner:	Eileen Ingham, Faculty of Biological Sciences, University of Leeds
Chinese lead partner:	J N Wang, College of Medicine and College of Materials Science & Chemical Engineering. Zhejiang University

### S-PULSE (Southampton-Peking Universities Life Science Exchange)

£21,600

UK lead partner:	David Shepherd, School of Biological Sciences, University of
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## UKRI - BBSRC CHINA PARTNERING AWARDS 2003 - 2020

	Southampton
Chinese lead partner:	Hongya Gu, College of Life Sciences, Peking University

### Exploiting wheat genetic diversity for improved diet and health

£21,600

UK lead partner:	Peter Shewry, Rothamsted Research
Chinese lead partner:	Zhonghu He, National Wheat Improvement Centre, Institute of Crop Science, Chinese Academy of Agricultural Sciences (CAAS)

### Natural products as multi-component stress tolerance effectors

£21,500

UK lead partner:	Alan Tunnacliffe, Institute of Biotechnology, University of Cambridge
Chinese lead partner:	Zebo Huang, College of Pharmacy, Wuhan University

### UK-China TILLING Platform: a reverse genetics tool for cereal gene function analysis

£20,640

UK lead partner:	Trevor Wang, Metabolic Biology, John Innes Centre
Chinese lead partner:	Chun-ming Liu, Centre for Signal Transduction and Metabolomics (C-STM), Institute of Botany Chinese Academy of Sciences (IB-CAS)

## 2004 Call

### Genomic and Post-genomics of *Salmonella* and *Mycobacterium* as paradigms of intracellular pathogens

£25,000

UK lead partner:	Paul Barrow, Head of Avian Enterics Research Group, The Pirbright Institute
Chinese lead partner:	Deming Zhao, Associate Dean, College of Veterinary Medicine, Chinese Agricultural University (CAU)

### Intelligent optimization of metabolome technology

£24,650

UK lead partner	Douglas Kell, Department of Chemistry, The University of Manchester
Chinese lead partner	Yizeng Liang, College of Chemistry and Chemical Engineering, Central South University, Changsha, Hunan province

### To exploit natural and induced genetic variation in *Brassica*.

£10,800

UK lead partner	Graham King, Crop Performance & Improvement, Rothamsted Research
Chinese lead partner	Jinling Meng, National Key Laboratory of Crop Genetic Improvement, Huazhong Agricultural University, Wuhan

### Molecular technologies for sustainable disease control in oilseed crops

£24,500

UK lead partner	Alastair McCartney, Department of Plant Pathogen Interactions, Rothamsted Research
Chinese lead partner	Boacheng Hu, Crops Research Institute, Anhui Academy of Agricultural Science

### Bioremediation and Bioavailability: developing collaborative research programmes for treatment

**of contaminated soil**

£24,900

UK lead partner	Ian Singleton, School of Biology, University of Newcastle
Chinese lead partner	Yong-Guan Zhu, Research Centre for Eco-environmental Sciences, Chinese Academy of Sciences, Beijing

**Development of a unifying technology for enantioselective and regioselective biocatalysis**

£15,100

UK lead partner	Thomas Smith, Sheffield Hallam University
Chinese lead partner	Min-Hua Zong, Department of Biotechnology, South China University of Technology, Guangzhou

**Exploring Synergies to Advance Plant Science**

£5,000

UK lead partner	Brendan Davies, Centre for Plant Sciences, University of Leeds
Chinese lead partner	Rong Xiang-Fang, Institute of Microbiology, Chinese Academy of Sciences

**Foot-and-mouth disease and other OIE list A diseases in large domestic animals and their impacts**

£21,000

UK lead partner	Zhidong Zhang, FMD Pathogenesis Group, The Pirbright Institute
Chinese lead partner	Xuepeng Cai, Virology Department, Lanzhou Veterinary Research Institute

**2003 Call**

**UK/China collaboration: Molecular chaperones and protein folding catalysts**

£24,000

UK lead partner	Robert Freedman, Biological Sciences, University of Warwick
Chinese lead partner	Zhizhen Wang, National Laboratory of Biomacromolecules, Institute of Biophysics, Academia Sinica, Beijing

**Structural Biology Partnership**

£25,000

UK lead partner	Neil Isaacs, Department of Chemistry, University of Glasgow
Chinese lead partner	Zihe Rao, CAS Institute of Biophysics, Beijing

**Developing links between plant science research groups in Glasgow University and China**

£25,000

UK lead partner	Gareth Jenkins, Institute of Biomedical and Life Sciences, University of Glasgow
Chinese lead partner	Ping Wu, State Key Laboratory of Plant Physiology and Biochemistry, Zhejiang University

**UK-China collaborative research in plant science**

£24,900

UK lead partner	Steven Neill, Centre for Research in Plant Science (CRIPS), University of the West of England
Chinese lead partner	Weiming Cai, Laboratory of Environmental Biology and Molecular Ecology, Shanghai Institute of Plant Physiology and Ecology

**Genomics and post-genomics of *Eimeria*: development of novel vaccines against poultry**

## UKRI - BBSRC CHINA PARTNERING AWARDS 2003 - 2020

### **coccidiosis**

£25,000

UK lead partner	Martin Shirley, Molecular Parasitology Department, The Pirbright Institute
Chinese lead partner	Jianping Cai, Parasitology Laboratory of the Institute of Veterinary Medicine, Guangdong Academy of Agricultural Sciences (GAAS)

### **Cambridge-Shanghai-Hangzhou partnership in plant sciences**

£25,000

UK lead partner	Alison Smith, Plant Sciences, University of Cambridge
Chinese lead partner	Da Luo, School of Life Sciences and Biotechnology, Shanghai Jiao Tong University

### **Soil carbon sequestration in China under climate change after the Kyoto Protocol**

£24,820

UK lead partner	Pete Smith, School of Biological Sciences (Plant and Soil), University of Aberdeen
Chinese lead partner	Shougong Zhang, Institute of Forestry, Chinese Academy of Forestry

### **A UK-China partnership in predictive biology as applied to fungal systems**

£21,070

UK lead partner	Michael Tuite, School of Biosciences, University of Kent
Chinese lead partner	Po Tien, Open Laboratory of Virology and Biotechnology, The Institute of Microbiology, Chinese Academy of Sciences

### **Collaborative Sino-UK synchrotron radiation circular dichroism spectroscopy studies and international SRCD workshop**

£24,800

UK lead partner	Bonnie Wallace, Department of Crystallography, University of London
Chinese lead partner	Ye Tao, VUV Spectroscopy Dept., Beijing Synchrotron Radiation Facility