

Research Project Grants – November 2015

SCIENCES

Dr Nicola Allison

University of St Andrews
The control of coral biomineralisation
£169,406

Dr Steve Atkinson

University of Nottingham
Human body lice – a missing link in plague outbreaks?
£151,469

Dr Wael Bahoun

Loughborough University
Statistical properties of dynamical systems: an interplay between randomness and determinism
£126,818

Professor Simon Belt

University of Plymouth
A novel proxy for reconstructing polar ocean temperatures
£164,557

Professor Tim Blackburn

University College London
The phylogenetics of invasions: untangling evolutionary and human historical contexts in the introduction and spread of alien bird species
£100,211

Professor Tracey Chapman

University of East Anglia
Evolutionary genomics of the enigmatic male sex peptide: a 'master regulator' of female reproduction.
£55,399

Professor Daniel Charman

University of Exeter
Holocene evolution of the Southern Annular Mode using novel peat isotope proxies
£245,011

Professor Jonathan Clayden

University of Bristol
Dynamic communication through reorganisable hydrogen bond networks
£195,989

Dr Clare Cunningham

Abertay University
Effects of social and practical experience on tool manipulation skills in small apes
£121,780

Dr Alfonso De Simone

Imperial College London
Biomolecular mechanisms in heterogeneous systems: the interfacial activation of lipases
£189,084

Dr Bruno Dhuime

University of Bristol
Silicate mineral inclusions and the composition of new continental crust
£184,313

Dr Christopher Duffy

Queen Mary, University of London
Carotenoids in light harvesting: a general molecular theory
£149,718

Dr Gregory Edgecombe

Natural History Museum
Anomalocaridids and the origin of arthropods: the view from Chengjiang
£144,321

Professor Martin Eimer

Birkbeck, University of London
Neural and cognitive mechanisms of multimodal working memory
£185,528

Dr Emmanuil Georgoulis

University of Leicester
Reduced complexity finite element methods
£199,662

Professor Karl Hale

Queen's University Belfast
Towards a new total synthesis of (+)-Acutiphycin via O-Directed Hydrostannation
£245,468

Professor Douglas C Heggie

University of Edinburgh
New Science from the phase space of dense stellar systems
£177,131

Professor Christopher Howe

University of Cambridge
Biological photovoltaic cells in ultra-small volumes
£171,844

Professor Herbert Huppert

University of Cambridge
Carbon dioxide sequestration: theory, experimental and field verifications
£159,625

Dr Simon Jones

University of Sheffield
Multifunctional catalysts for selective phosphoryl transfer
£50,556

Professor Tom Little

University of Edinburgh
Cross-generational epigenetic effects of age and diet restriction
£202,932

Dr Dermot Lynott

University of Lancaster
If it looks like a duck: emergent categorical structure in the human conceptual system
£132,423

Professor Andrei Malkov

Loughborough University
A novel approach to asymmetric synthesis of homoallylic amines
£162,456

Dr Reinhold Medina

Queen's University Belfast
Exploring a novel role for interferon signalling in cellular senescence
£260,505

Professor Joanna Morgan

Imperial College London
Santorini: high-resolution imaging of an active volcano with 3D full-waveform inversion
£228,055

Dr Louis Morrill

Cardiff University
The productive merger of organocatalysis and frustrated Lewis pairs
£175,992

Professor Klaus Muller-Dethlefs

University of Manchester
Non-covalent interactions: an experimental and theoretical pathway towards exact binding energies
£153,531

Dr John Mulley

Bangor University
Mapping the gerbil genome
£182,005

Dr Emily Nurse

University College London
A novel technique to search for Dark Matter at the Large Hadron Collider
£288,386

Dr Gabriela Ochoa

University of Stirling

The cartography of computational search spaces
£99,147

Dr Susan Perkin

University of Oxford

Electric and magnetic field effects on confined liquids
£241,665

Dr Simon Pope

Cardiff University

Decorated diamonds: new luminescent hybrid materials
£168,148

Dr Shuzo Sakata

University of Strathclyde

The function of sub-second brain waves in REM sleep
£232,495

Professor Dmitry Skryabin

University of Bath

Solitons and frequency combs in micro-ring resonators
£138,083

Dr Karen Spencer

University of St Andrews

Social networking: understanding the neuroendocrine basis of gregarious behaviour
£107,920

Dr James Edward Sprittles

University of Warwick

Skating on thin nanofilms: how liquid drops impact solids
£145,619

Dr David Summers

University of Cambridge

Indole signalling and the electrical properties of the bacterial cell membrane
£162,118

Dr Baojun Wang

University of Edinburgh

Programmable single-cell biocomputers with scalable signal processing capacity
£160,211

Dr Allan Watson

University of Strathclyde

Can amine catalysis generate synthetically useful carbenes?
£101,689

Professor Andrew Weller

University of Oxford

The coordination chemistry of light alkanes with metal centres: a homologous series of sigma-alkane complexes, C-H activation and catalysis
£95,136

Professor Gregory G. Wildgoose

University of East Anglia

Developing metal-free electrocatalysts for renewable hydrogen production
£84,157

HUMANITIES

Dr Jackson Armstrong

University of Aberdeen

Law in the Aberdeen council registers 1398–1511: concepts, practices, geographies
£310,455

Professor Carole Hough

University of Glasgow

Recovering the earliest English language in Scotland: evidence from place-names
£274,523

Professor Donald MacRaid

University of Ulster

The Irish and British famine, 1845–50: comparing lives lost and lives saved
£235,454

Dr Andrew Malcolm Taylor

University of Edinburgh

The Cantos Project
£307,852

Dr Catherine Whistler

University of Oxford

Transforming our understanding of Raphael with eloquence in drawing as a research theme
£135,265

SOCIAL SCIENCES

Dr Mitchell Callan

University of Essex

Rejecting innocent victims: the roles of relative judgments and emotional impact
£103,128

Professor Richard Disney

Institute for Fiscal Studies

Modelling heterogeneity in microeconomic investment hazards
£124,167

Professor Igor Goncharov

University of Lancaster

Accounting-based value: when is accounting useful in determining firm value?
£79,678

Dr Stephen Jivraj

University College London

A life course approach to neighbourhood effects
£141,323

Dr Olmo Silva

London School of Economics and Political Science

A randomised control trial to identify the causal effect of accelerator programmes
£234,029

Professor David Thomas

University of Oxford

Landscape archaeology of the Kalahari: how did major hydrological shifts affect Stone Age mobility and landscape use in the late Quaternary?
£234,895

Dr Kate Weiner

University of Sheffield

Knowledge, care and the practices of self-monitoring
£217,770