British Heart Foundation

Research Grant Awards 2010/2011

BEATING HEART DISEASE TOGETHER

British Heart Foundation

Contents

Introduction

In the year April 2010 to March 2011 the British Heart Foundation (BHF) awarded grants totalling just under £120 million* for research into the causes, prevention, diagnosis and treatment of diseases of the heart and circulation.

The BHF has three research grant committees which meet four times a year. The members of each committee are experts in various aspects of basic and clinical cardiovascular research. Applications are sent to independent reviewers before being assessed by the committee. Judgements are made on factors such as scientific merit, relevance to cardiovascular disease, timeliness, relationship to other work in the field, and value for money. Approximately one-third of applications are successful.

In 2010-2011 the Chairs and Programme Grants Committee agreed £36 million for Programme Grants and other major projects such as Special Projects, Strategic Initiatives and Infrastructure Grants. There were 28 chairholders (also referred to as BHF Professors) in post during the year. Each chairholder is site-visited every five years to assess past research performance and future plans. The visiting team includes internationally renowned scientists. The annual cost of maintaining BHF chairholders' core funding amounted to £6.1 million, and one new Personal Chair was awarded totalling £1.5 million to Professor P R Riley, University of Oxford. The Fellowships Committee awarded 74 applications for personal awards costing £18.3 million. The Project Grants Committee awarded 114 applications to the value of £20 million.

The pages that follow list BHF chairholders in post during the year and new awards made for Fellowships, Programme Grants, Project Grants and other awards.

Full details of all types of award offered by the BHF, and the application process, appear on the BHF website **bhf.org.uk/research**

* This represents the figure recorded in the audited accounts, having made adjustments for mid-term reviews of Programme Grants, departmental costs and closed grants.

BHF chairholders

Listed by town

University of Birmingham

The Chair of Cardiovascular Sciences and Cellular Pharmacology
Held by: **Professor S P Watson** BSc PhD FMedSci

Major interest: The cell and molecular biology of blood platelets in haemostasis and thrombosis.

University of Bristol

The Chair of Cardiac Surgery
Held by: **Professor G D Angelini** MD MCh FRCS FMedSci

Major interests: Coronary artery bypass surgery, including off-pump techniques and methods to reduce restenosis; improving surgery for heart defects in infants.

University of Bristol

The Chair of Vascular Cell Biology
Held by: **Professor A C Newby** MA PhD

Major interest: The cell and molecular biology of atherosclerosis and restenosis.

University of Cambridge

The Chair of Cardiovascular Sciences
Held by: **Professor M R Bennett** BSc MBChB MA PhD FRCP FAHA FMedSci

Major interest: The molecular mechanisms controlling smooth muscle cell proliferation, ageing and death in atherosclerosis.

University of Cambridge

The Chair of Cardiovascular Medicine
Held by: **Professor Z Mallat** MD PhD

Major interest: Cellular and molecular control of immune processes in atherosclerosis and vascular inflammation.

University of Cambridge

The Chair of Cardiopulmonary Medicine
Held by: **Professor N Morrell** MD MRCP FRCP FMedSci

Major interest: Molecular and genetic mechanisms of pulmonary arterial hypertension.

Cardiff University

The Sir Thomas Lewis Chair of Cardiovascular Science
Held by: **Professor A J Williams** BA PhD

Major interest: Molecular biology of calcium flux through the ryanodine receptor in cardiac myocytes and its disturbance in arrhythmia.

University of Edinburgh

The Duke of Edinburgh Chair of Cardiology
Held by: **Professor K A A Fox** BSc MBChB FRCP FESC FMedSci

Major interests: Clinical trials to determine best treatments for patients with acute coronary syndrome; novel non-invasive imaging techniques to detect coronary vascular disease.

University of Edinburgh

The Chair of Cardiology
Held by: **Professor D E Newby** BA BSc PhD BM DM FMedSci

Major interest: Experimental cardiovascular medicine, including studies of air pollution as a risk factor for cardiovascular disease.

University of Glasgow

The Chair of Cardiovascular Medicine
Held by: **Professor A F Dominiczak** OBE MD FRCP FAHA FRSE FMedSci
Resigned July 2010

Major interest: Genetic analysis to understand molecular mechanisms leading to hypertension.

University of Leeds

The Chair of Cardiology
Held by: **Professor S G Ball** MA MB BChir PhD FRCP

Major interests: Genetics of coronary heart disease; cardiac MRI.

University of Leicester

The Chair of Cardiology
Held by: **Professor N J Samani** MD FRCP FACC FMedSci

Major interests: Genetics of hypertension and coronary heart disease; cell ageing mechanisms and premature cardiovascular disease.

Imperial College London

The Sir John McMichael Chair of Cardiovascular Medicine
Held by: **Professor D O Haskard** DM FRCP FMedSci

Major interest: Cellular and molecular control of inflammatory and immune processes in atherosclerosis.

Imperial College London

The Simon Marks Chair of Regenerative Cardiology
Held by: **Professor M D Schneider** MD FMedSci

Major interests: Molecular control of cardiac myocyte growth and death; strategies for regenerative cardiac medicine.

King's College London

The Chair of Molecular Cardiology
Held by: **Professor M Gautel** MD PhD

Major interest: Cell and molecular biology of the contractile proteins in heart muscle.

King's College London

The Chair of Cardiology
Held by: **Professor A M Shah** MD FRCP FESC FMedSci

Major interest: The cell and molecular biology of production of reactive oxygen species (by NADPH oxidase) in the cardiovascular system and their roles in atherosclerosis, cardiac hypertrophy and heart failure.

King's College London

The John Parker Chair of Cardiovascular Sciences
Held by: **Professor Q Xu** MBBS MD PhD

Major interest: The cell and molecular biology of stem cells and their importance in modulating atherosclerosis and restenosis.

St George's, University of London

The Prudential Chair of Clinical Cardiology
Held by: **Professor A J Camm** BSc QHP MD FRCP FESC FACC FAHA FCGC FMedSci C.St.J

Major interest: Mechanisms and treatment of atrial fibrillation.

University College London

The Chair of Cardiovascular Genetics
Held by: **Professor S E Humphries** BSc PhD MRCP(Hon) FRCPath FMedSci

Major interests: Genetics of hyperlipidaemias; interactions between genes and environmental factors in the development of cardiovascular disease.

University College London

The Chair of Psychology
Held by: **Professor A P A Steptoe** MA DPhil DSc FBPsS AcSS FMedSci

Major interest: Psychological stress and cardiovascular disease.

University College London (Institute of Child Health)

The Vandervell Chair of Congenital Heart Disease
Held by: **Professor J E Deanfield** BA BChir MB FRCP FMedSci

Major interest: Evaluating the risk factors for atherosclerosis and quantifying the progression of vascular disease in children and young adults.

University of Manchester

The Chair of Cardiac Physiology
Held by: **Professor D A Eisner** MA DPhil FMedSci

Major interest: Cell and molecular physiology of the role of calcium in control of heart rhythm.

University of Newcastle

The Chair of Cardiology
Held by: **Professor B D Keavney** BSc BM BCh MRCP DM FRCP

Major interest: Genetics of coronary heart disease.

University of Oxford

The Chair of Cardiovascular Medicine
Held by: **Professor S Bhattacharya** MBBS MD MRCP MSc FMedSci

Major interest: Developmental biology of the heart.

University of Oxford

The Chair of Medicine and Epidemiology
Held by: **Professor Sir Rory Collins** MSc MBBS LMSSA FMedSci FRCP

Major interests: Meta-analysis and large-scale trials in cardiovascular disease; large-scale epidemiological studies of risk factors and biomarkers.

University of Oxford

The Chair of Regenerative Medicine
Held by: **Professor P R Riley** BSc PhD

Major interests: Developmental biology of the heart and its applications to cardiac regenerative medicine.

University of Oxford

The Field Marshal Earl Alexander Chair of Cardiovascular Medicine
Held by: **Professor H C Watkins** MD PhD FRCP FMedSci

Major interests: Genetics and underlying molecular mechanisms in hypertrophic cardiomyopathy; genetics of coronary artery disease.

University of Southampton

The Chair of Cardiovascular Science
Held by: **Professor M A Hanson** MA DPhil CertEd FRCOG

Major interest: Molecular mechanisms for developmental and neonatal origins of adult cardiovascular disease.

Awards made during the year 1 April 2010 – 31 March 2011

Fellowships

Non-clinical Fellowships

Senior Basic Science Research Fellowships

FS/10/45/28399	**Dr A Zhou** PhD	University of Cambridge	Structural mechanisms in the control of blood pressure. *5 years*	£675,275

Intermediate Basic Science Research Fellowships

FS/11/3/28632	**Dr T McKinnon** BSc	Imperial College London	The functional role of the C-terminal domains of Von Willebrand factor. *4 years*	£355,844
FS/10/47/28393	**Dr R D Starke** BSc PhD	Imperial College London	The role of Von Willebrand factor in angiogenesis. *4 years*	£318,313
FS/10/31/28395	**Dr A Chapgier** MSc BhD	University College London	The histone chaperone Hira and cardiovascular morphogenesis: investigating a role in cardiac neural crest cells. *4 years*	£361,713
FS/11/2/28579	**Dr N J Mutch** BSc PhD	University of Aberdeen	Characterising the physiological role of factor XII and the contact system. *4 years*	£498,222
FS/10/017/28249	**Dr R R Foster** BSc	University of Bristol	Can VEGF-C regulate VEGF-A induced changes in glomerular endothelial cell barrier properties in health and disease? *4 years*	£373,270
FS/11/1/28400	**Dr E C J Hart** PhD	University of Bristol	Examining the role of Cushing's mechanism and sympathetic nerve activity in human hypertension. *4 years*	£371,230
FS/10/46/28350	**Dr E M L Chung** PhD MSc	University of Leicester	Forecasting brain injury in the virtual patient. *3 years*	£259,268
FS/11/4/28670	**Dr A Gingras** BSc MSc PhD	University of Nottingham	Regulation of endothelial cell junctions in vascular homeostasis and cerebrovascular disease: structural and biochemical studies of KRIT1. *4 years*	£392,926

4-year PhD Studentships

FS/10/51/ 28677	**Prof M Avkiran** BSc PhD DSc	King's College London	2nd intake 2010/2011 4-year PhD Studentship Scheme: Mr Steven Glover; Mr Ross King; Ms Claire Sand; Ms Maira Zeh Silva. *4 years*	£553,176
FS/10/54/ 28680	**Prof P J Scambler** MRCPath	University College London	2nd intake 2010/2011 4-year PhD Studentship Scheme: Ms Claudia Giambartolomei; Ms Sophie Payne; Mr Richard Tyser; Ms Alice Plein. *4 years*	£549,004
FS/10/48/ 28674	**Prof M R Bennett** BSc MBChB MA PhD FRCP FAHA FMedSci	University of Cambridge	2nd intake 2010/2011 4-year PhD Studentship Scheme: Ms Marinka Steur; Ms Aleksandra Kotwica; Ms Deirdre Murphy; Ms Victoria Mascetti. *4 years*	£551,376
FS/10/49/ 28675	**Dr M Bailey** BSc PhD	University of Edinburgh	2nd intake 2010/2011 4-year PhD Studentship Scheme: Ms Cristina Aguilar; Ms Annalisa Gastaldello; Ms Catherine Rose; Mr Barry Emerson. *4 years*	£513,236
FS/10/50/ 28676	**Prof A F Dominiczak** OBE MD FRCP FAHA FRSE FMedSci	University of Glasgow	2nd intake 2010/2011 4-Year PhD Studentship Scheme: Mr Craig Livie; Mr Andrew James Allen; Ms Annabel Campbell; Ms Caroline Fattah. *4 years*	£511,072
FS/10/52/ 28678	**Dr C E Austin** BSc PhD	University of Manchester	2nd intake 2010/2011 4-year PhD Studentship Scheme: Mr Michael Lawless; Ms Heather Melrose; Ms Rebecca Taylor; Ms Hannah Garnett. *4 years*	£511,932
FS/10/53/ 28679	**Dr D R Greaves** BSc PhD	University of Oxford	2nd intake 2010/2011 4-year PhD Studentship Scheme: Ms Helen Batchelor; Ms Lucy Ambrose; Ms Chloe Lim; Mr Surawee Chuaiphichai. *4 years*	£549,212

3-year PhD Studentships

FS/11/9/ 28695	**Ms M Furmanik** BSc MRes	King's College London	A role for endoplasmic reticulum stress in vascular calcification. *3 years*	£106,678
FS/10/59/ 28533	**Ms B Patel** BSc MSc	King's College London	Intrauterine programming of fetal endothelial dysfunction in gestational diabetes: a role for impaired Nrf2-mediated redox signalling. *3 years*	£104,850
FS/10/57/ 28485	**Miss K Nandra** BSc	Queen Mary, University of London	Novel therapeutic approaches for experimental trauma-haemorrhage. *3 years*	£105,788
FS/10/33/ 28271	**Ms F Rauzi** BSc	Queen Mary, University of London	Relative roles of platelet-derived thromboxane A2 and 12-HPETE/HETE in the regulation of local vascular and platelet responses. *3 years*	£105,726
FS/10/55/ 28414	**Miss E Leigh** MSc	University College London	The role of marital functioning in the physical and psychological health of CABG patients and their partners. *3 years*	£89,826

FS/10/34/28291	**Miss S Gardner** BA	University of Cambridge	Pro-inflammatory effects of leukocyte and smooth muscle cell ageing. *3 years*	£124,918
FS/10/018/28193	**Miss O Gjorgjimajkoska** BSc MSc	University of Cambridge	Humoral autoimmunity and allograft vasculopathy. *3 years*	£103,981
FS/11/8/28689	**Mr K Siew** BSc	University of Cambridge	Exploration of the role of the phosphatase PP4 in regulating transporter function in the distal nephron. *3 years*	£107,557
FS/10/37/28413	**Dr P Willet** MPhil	University of Cambridge	Reliable evaluation of associations between natriuretic peptides and cardiovascular disease risk in general adult populations. *3 years*	£98,968
FS/10/35/28379	**Mrs D McCormick** BSc	University of East Anglia	Investigating microRNA: target gene interactions during cardiogenesis. *3 years*	£97,736
FS/10/32/28204	**Mr D Brown** BSc	University of Essex	Reducing the incidence of cardiac events: the use of natural green space to modify psychophysiological responses associated with workplace stress. *3 years*	£90,094
FS/10/019/28205	**Mr C Livie** BSc	University of Glasgow	Effect of oestrogens and oestrogen metabolites on the serotonin system: role in the development of pulmonary hypertension. *3 years*	£97,585
FS/10/60/28559	**Miss C Stevenson** BSc	University of Glasgow	Unravelling the role of α_2-adrenoceptors and purinergic mechanisms in vascular sympathetic neurotransmission using a mouse lacking α_1-adrenoceptors (the α_1-null mouse). *3 years*	£97,353
FS/11/5/28611	**Miss E Cook** MBBS MRCP	University of Leeds	The functional role of fibrinogen phosphorylation in thrombus formation. *3 years*	£97,159
FS/10/020/28242	**Miss K Greenhalgh** BSc	University of Leeds	A new paradigm in the relationship between clot structure and fibrinolysis: molecular mechanisms for altered clot structure/function in Bb-chain genetic variants of fibrinogen. *3 years*	£97,070
FS/10/56/28430	**Ms E Giannoudaki** BSc	University of Newcastle	Role of sphingosine-1-phosphate in ischaemia reperfusion injury. *3 years*	£96,496
FS/11/7/28642	**Miss S Osborne** BSc	University of Reading	Regulation and role of protein kinase C-related protein kinase (PRK1) in cardiomyocytes. *3 years*	£97,959
FS/10/021/28244	**Student to be appointed**	Imperial College London	Investigation of a mouse model of hypertrophic cardiomyopathy prone to sudden cardiac death. *3 years*	£103,821

FS/10/023/ 28269	**Student to be appointed**	University of Birmingham	Characterising the role of RhoJ/TCL in angiogenesis – *in vivo* function and mechanisms of action. *3 years*	£110,756
FS/10/58/ 28515	**Student to be appointed**	University of Bristol	The regulation of vascular smooth muscle cell growth by the proline-rich homeodomain protein (PRH/Hhex). *3 years*	£82,353
FS/10/61/ 28566	**Student to be appointed**	University of Bristol	Role of miRNA-30c2* in diabetes-induced impairment of post-ischaemic neovascularisation in limb muscles. *3 years*	£100,040
FS/10/022/ 28262	**Student to be appointed**	University of Cambridge	Transcription factor determinants of cardiac progenitors cultured from pluripotent human stem cells. *3 years*	£103,878
FS/10/36/ 28352	**Student to be appointed**	University of St Andrews	Plasma fatty acid and Zn^{2+} dynamics: implications for the formation of obstructive clots. *3 years*	£97,211
FS/11/6/ 28641	**Student to be appointed**	University of Strathclyde	The role of intracellular calcium in the arrhythmogenic activity of pulmonary vein cardiomyocytes. *3 years*	£96,722

Travel Fellowships

FS/10/64/ 28532	**Dr R C Myles** MA MBBS MRCP	University of Glasgow	Electrophysiological remodelling and mechanisms of ventricular arrhythmia in dilated cardiomyopathy. *1 year*	£53,807

Clinical Fellowships

Senior Clinical Research Fellowships

FS/10/38/28268	**Dr D P Francis** MRCP MD	Imperial College London	Developing and studying diagnostic and therapeutic techniques for heart failure and other cardiac diseases, by application of engineering and mathematical principles. *5 years*	£462,723
FS/10/39/28270	**Dr D J Hausenloy** BSc MBChB PhD	University College London	Mitochondrial morphology and the mitochondrial permeability transition pore as targets for cardioprotection. *5 years*	£893,727
FS/10/62/28409	**Dr S Plein** MRCP	University of Leeds	Evolution of morphological and functional abnormalities in diabetic heart disease. *5 years*	£973,642

Intermediate Clinical Research Fellowships

FS/10/024/28266	**Dr N Mills** BSc MBChB	University of Edinburgh	Derivation and characterisation of endothelial cells from induced pluripotent stem cells in patients with atherosclerosis. *5 years*	£919,083
FS/10/63/28374	**Dr L Venetucci** MB ChB MRCP	University of Manchester	Novel treatments for catecholaminergic polymorphic ventricular tachycardia: a translational study from single cells to patients. *5 years*	£642,478

MBPhD Studentships

FS/10/44/28294	**Mr W J Jenner** BSc	University College London	Exercise-induced protection from ischaemia reperfusion injury. *2 years 2 months*	£77,950
FS/10/73/28464	**Mr J A Giles** BSc	University of Manchester	The role of platelets in vascular inflammation: endothelial inflammation via platelet-derived interleukin-1α. *2 years*	£72,966

Clinical Research Training Fellowships

FS/11/11/ 28634	**Dr H Fok** BMedSci MBBS	King's College London	Defining the mechanism by which vasodilator drugs selectively reduce central pulse pressure through a reduction in pressure augmentation. *3 years*	£193,316
FS/10/65/ 28404	**Dr J L Harrison** MA BM BCh MRCP	King's College London	Magnetic resonance imaging (MRI) and MRI-guided electroanatomical mapping in catheter ablation of atrial fibrillation. *3 years*	£201,803
FS/10/029/ 28253	**Dr A Schuster** BMedSci BMBS	King's College London	True validation of quantitative myocardial perfusion magnetic resonance imaging. *2 years*	£128,544
FS/10/67/ 28491	**Miss E C M Slack** BVM&S BSc	King's College London	Novel approaches to understanding oxidant sensing and signalling in the cardiovascular system. *3 years*	£175,916
FS/10/41/ 28297	**Miss E S Teh** BMedSci BMBS	King's College London	The influence of acute matrix metalloproteinase activity on myocardial dysfunction associated with urgent cardiac surgery: cardioprotective effects of inhibition. *2 years*	£132,272
FS/10/027/ 28248	**Dr C J Coats** MBBS BSc	University College London	The role of metabolic modulation in hypertrophic cardiomyopathy. *3 years*	£191,143
FS/10/66/ 28489	**Dr C Critoph** BM	University College London	Integration of cardiovascular imaging modalities to create novel diagnostic and modelling tools for patients with obstructive hypertrophic cardiomyopathy. *2 years*	£119,104
FS/11/16/ 28696	**Mr S Harrison** MBBS MRCS	University College London	Using genome wide data to understand disease pathways in AAA. *2 years*	£124,404
FS/10/40/ 28260	**Dr D Sado** BM BSc MRCP	University College London	The clinical significance of diffuse myocardial fibrosis in cardiomyopathy. *2 years*	£134,394
FS/10/72/ 28568	**Dr S K White** BSc MBChB	University College London	Tissue characterisation in acute myocardial infarction using cardiac MRI. *3 years*	£207,260
FS/10/030/ 28261	**Dr S Arif** MBChB MRCP	University of Birmingham	The role of mitochondrial aldehyde dehydrogenase in nitrite bioconversion to nitric oxide. *1 year*	£57,877
FS/11/17/ 28700	**Dr W Moody** BMedSc MBChB	University of Birmingham	The effects of a modest reduction in renal function on cardiovascular structure and function: a study of kidney donors. *3 years*	£255,659
FS/10/68/ 28492	**Dr R Bond** BMedSci MBBS MRCP	University of Bristol	Noradrenergic modulation of pulmonary vein cardiomyocyte cellular electrophysiology: a comparative study with left atrial cardiomyocytes. *3 years*	£171,149
FS/10/025/ 28196	**Dr D Obaid** BA MBBChir MA MRCP	University of Cambridge	Dual source and dual energy CT and IVUS-RF for detecting vulnerable coronary artery plaques. *2 years*	£127,034

FS/10/70/28507	**Dr E Yu** MBBChir MRCP	University of Cambridge	Mitochondrial dysfunction, DNA damage and atherosclerosis. *3 years*	£160,066
FS/10/026/28209	**Dr M Dweck** BSc MB ChB MRCP	University of Edinburgh	Role of inflammation and calcification in the progression of aortic stenosis: the ring of fire. *3 years*	£280,048
FS/11/14/28692	**Dr M Williams** BSc MB ChB MRCP	University of Edinburgh	Dynamic myocardial perfusion imaging by 320-multidetector computed tomography. *3 years*	£218,325
FS/11/12/28673	**Dr C Halliday** BSc MBChB MRCP	University of Glasgow	Evaluation of miRNA and their therapeutic potential in a mouse model of in-stent restenosis. *3 years*	£169,862
FS/10/028/28252	**Dr V K Gatenby** MBChB MRCP	University of Leeds	Manipulating insulin-like growth factor-1 receptor: insulin receptor stoichiometry to restore endothelial function in an *in vivo* model of whole body insulin resistance. *3 years*	£196,804
FS/10/42/28372	**Dr R Aghamohammadzadeh** MBChB MRCP	University of Manchester	Perivascular adipose tissue function in obesity: cross-talk between inflammation, adiponectin and the endothelium. *2 years*	£102,698
FS/10/71/28563	**Dr G J Kirkwood** BA MBBS	University of Manchester	An integrative approach to define adverse electrophysiological remodelling in dyssynchronous pacing and its reversal by cardiac resynchronisation therapy. *3 years*	£222,264
FS/11/15/28693	**Dr R Sankaranarayanan** MBBS MRCP	University of Manchester	Does increased SR Ca leak always cause Ca waves? A study on the relationship between SR Ca leak, SR Ca content, Ca transient amplitude and the occurrence of Ca waves. *3 years*	£200,085
FS/10/69/28495	**Dr I Temple** MBChB BSc MRCP	University of Manchester	Pulmonary hypertension and cardiac arrhythmogenesis. *3 years*	£184,529
FS/11/13/28690	**Dr I Matthews** MBChB MRCP	University of Newcastle	Efficacy of permanent pacing in patients with syncope and a positive intravenous adenosine test: a randomised, double-blind, placebo-controlled, cross-over trial. *2 years*	£120,288
FS/11/10/28564	**Dr A Odudu** MB ChB	University of Nottingham	Can remote ischaemic pre-conditioning reduce dialysis-induced myocardial stunning in haemodialysis patients? *2 years*	£101,774
FS/10/43/28415	**Dr M M Gedicke** PhD	University of Oxford	Characterisation of vascular dysfunction in bicuspid aortic valve disease using advanced cardiovascular magnetic resonance imaging techniques. *3 years*	£274,707

Personal Chair

CH/11/1/ 28798	**Prof P R Riley** BSc PhD	University of Oxford	The BHF Chair of Regenerative Medicine. *10 years*	£1,521,629

Infrastructure Grants

IG/11/2/ 28737	**Prof V O'Donnell** BSc PhD	Cardiff University	Funding towards equipment for the Cardiff Lipidomic Facility	£112,865
IG/11/1/ 28443	**Prof A Zholos** BSc PhD DrSci	Queen's University, Belfast	Funding towards a combined system for confocal imaging and patch clamp	£100,843
IG/10/1/ 28571	**Prof A C Newby** MA PhD	University of Bristol	Funding towards equipment for the Bristol Heart Institute	£122,593

New Horizons Grants

NH/10/3/ 28574	**Dr J Gorelki** MSc PhD	Imperial College London	cAMP/cGMP localisation in cardiovascular tissue by new nanoscale multifunctional scanning technique. *2 years*	£222,159
NH/10/001/ 28305	**Prof M M Thompson** MD FRCS	St George's, University of London	Development of a smarter catheter for endovascular intervention. *3 years*	£297,303
NH/10/2/ 28425	**Prof J M Gibbins** BSc PhD	University of Reading	The virtual platele – the development of a predictive mathematical model for the complex regulation of platelet function. *3 years*	£299,978

Strategic Initiative Grants

SI/11/2/ 28875	**Prof M D Schneider** MD FMedSci	Imperial College London	Funding towards building and equipping the Hammersmith Campus L block facility, Imperial College London	£6,000,000
SI/10/1/ 28454	**Prof Sir John Savill** BA MBChB PhD FRCP FMedSci FRSE	University of Edinburgh	Funding towards the Scottish Centre for Regenerative Medicine (SCRM) building	£1,000,000
SI/11/1/ 28876	**Prof N J Samani** MD FRCP FACC FMedSci	University of Leicester	Funding towards building a Cardiovascular Research Centre at the Glenfield Hospital site, University of Leicester	£3,000,000

Programme Grants

RG/10/11/ 28457	**Prof N S Peters** MD FRCP	Imperial College London	RENEWAL: Remodelling of gap-junctional coupling in myocardial arrhythmogenesis: the myocardial substrate in infarct-related ventricular tachycardia. *5 years*	£1,085,343
RG/11/5/ 28743	**Prof P D Weinberg** MA MSc DIC PhD	Imperial College London	Identifying critical mechanisms in the initiation of atherosclerosis. *5 years*	£1,268,154
RG/10/16/ 28575	**Prof M R Wilkins** MD FRCP	Imperial College London	Iron homeostasis in pulmonary arterial hypertension. *5 years*	£1,038,294
RG/10/8/ 28561	**Prof H S Markus** MRCP MD	The Stroke Association	The Stroke Association/British Heart Foundation Second Joint Programme Grant – How intensively should we treat blood pressure in established cerebral small vessel disease? *5 years*	£770,710
RG/10/12/ 28456	**Prof A D Hingorani** MBBS MRCP PhD	University College London	Programme in Applied and Translational Cardiovascular Genomics (ATCG): the UCL-London-School-Edinburgh-Bristol (UCLEB) consortium of population-based prospective studies. *5 years*	£970,230
RG/10/13/ 28570	**Prof P J Scambler** MRCPath	University College London	RENEWAL: Tbx1 and cardiovascular morphogenesis: genetic networks and tissue interactions. *5 years*	£1,214,108
RG/10/005/ 28296	**Prof A P A Steptoe** MA DPhil DSc FBPsS AcSS FMedSci	University College London	RENEWAL: The psychophysiology of coronary heart disease. *5 years*	£1,240,094
RG/10/10/ 28447	**Prof A Tinker** MRCP PhD	University College London	RENEWAL: The role of the ATP-sensitive potassium channel subunit, Kir6.1, in cardiovascular physiology and pathology. *5 years*	£1,045,760
RG/11/6/ 28714	**Prof D Murphy** BSc PhD	University of Bristol	The role of central adrenomedullin in hypertension. *5 years*	£892,664

RG/10/006/ 28299	**Prof A W Poole** MA PhD VetMB	University of Bristol	RENEWAL: Protein kinase C-dependent platelet secretion: central regulator of thrombosis and atherogenesis. *5 years*	£1,312,442
RG/10/14/ 28576	**Dr R M A Sitsapesan** MSc PhD	University of Bristol	The cardiac sarcoplasmic reticulum in health and disease: new mechanisms and novel ion-channels. *5 years*	£576,614
RG/11/3/ 28732	**Dr J A Huntington** BSc PhD	University of Cambridge	Structural basis of thrombin formation and function. *5 years*	£1,109,978
RG/10/007/ 28300	**Dr E A Warburton** DM MRCP	University of Cambridge	RENEWAL: Imaging inflammation in atherosclerosis: an integrated multimodality approach. *3 years*	£591,252
RG/10/9/ 28286	**Prof D E Newby** BA BSc PhD BM DM FMedSci	University of Edinburgh	RENEWAL: Atherothrombotic effects of air pollution. *5 years*	£1,191,281
RG/11/4/ 28734	**Prof B R Walker** MRCP MD FRCPed	University of Edinburgh	RENEWAL: Tissue-specific determinants of glucocorticoid signalling in humans – new mechanisms and therapies for cardiovascular risk. *5 years*	£1,144,283
RG/11/2/ 28701	**Dr A Kitmitto** BSc PhD	University of Manchester	Elucidation of the molecular and cellular mechanisms stabilising the cardiac dyadic cleft and synchronous Ca-signalling: what goes wrong in the ageing and failing heart? *5 years*	£845,168
RG/10/17/ 28553	**Prof S Bhattacharya** MBBS MD MRCP MSc FMedSci	University of Oxford	Signalling pathways in cardiogenesis. *5 years*	£1,195,649
RG/10/15/ 28578	**Dr D R Greaves** BSc PhD	University of Oxford	RENEWAL: Monocyte recruitment and macrophage retention in atherosclerosis. *5 years*	£987,679
RG/11/1/ 28684	**Prof P J Ratcliffe** MA MBChB MD	University of Oxford	Centre for cardiovascular drug target discovery. *5 years*	£1,359,393

Special Project Grants

SP/10/10/ 28431	**Prof S A Cook** PhD MRCP	Imperial College London	Next generation sequencing of inherited cardiac conditions. *3 years*	£1,000,624
SP/10/6/ 28562	**Prof N R Poulter** PhD	Imperial College London	Diabetes UK/BHF Joint Special Project Grant – Action in Diabetes and Vascular Disease Preterax and Diamicron MR Controlled Evaluation post-trial observational study (ADVANCE-ON). *4 years*	£144,431
SP/10/9/ 28417	**National Prevention Research Initiative**	Medical Research Council	National Prevention Research Initiative – Phase IV. *5 years*	£1,000,000
SP/10/8/ 28715	**Dr D J Hausenloy** BSc MBChB PhD	University College London	Joint award with MRC-EME: Effect of Remote Ischaemic preConditioning on Clinical outcomes in patients undergoing Coronary Artery bypass graft surgery (ERICCA study): a multicentre, double-blind, randomised controlled clinical trial. *5 years*	£340,502
SP/10/11/ 28710	**Prof R A Pedersen** PhD	University of Cambridge	Joint funding with MRC: strategic development of stem cell-based therapies for vascular disease. *3 years*	£250,000
SP/10/005/ 28298	**Prof A H Baker** BSc PhD	University of Glasgow	*In vitro* and *in vivo* analysis of stem cell commitment to vascular endothelial cells. *3 years*	£451,845
SP/10/7/ 28383	**Prof A H Baker** BSc PhD	University of Glasgow	Micro RNA and their role in vascular remodelling associated with the development of pulmonary arterial hypertension. *3 years*	£342,451
SP/10/12/ 28711	**Prof C M Kielty** BSc PhD	University of Manchester	Joint funding with MRC: cell-matrix biology of the vascular progenitor cell niche. *3 years*	£250,000
SP/11/1/ 28479	**Prof J M Morgan** MD FRCP	University of Southampton	REmote Monitoring: an evaluation of implantable devices for management of Heart Failure patients – REM-HF. *5 years*	£1,856,828

Project Grants
Listed alphabetically by Institute

PG/11/12/28717	**Dr H L Roderick** BSc PhD	Babraham Institute	Post-transcriptional control of type 2 inositol 1,4,5-trisphosphate receptor ($InsP_3R2$) by microRNA during cardiac hypertrophy. *2 years*	£140,897
PG/10/55/28467	**Dr D P Ramji** BSc PhD	Cardiff University	Molecular mechanisms underlying interleukin-33-mediated inhibition of macrophage foam cell formation. *1 year 6 months*	£95,201
PG/10/82/28608	**Prof P Collins** MA MD (Cantab) FRCP FACC	Imperial College London	Ambient exposure to diesel vehicle particles and exacerbations of cardiovascular and chronic pulmonary disease: mechanistic explanations for epidemiological observations. *2 years*	£216,626
PG/10/80/28605	**Dr M Emerson** BSc PhD	Imperial College London	Mechanisms of platelet activation by ambient particulate air pollutants: role of particle physicochemistry. *3 years*	£167,144
PG/11/25/28830	**Prof J C Mason** PhD FRCP	Imperial College London	Role of nuclear receptor PPARδ and its coregulators PGC1α and RIP140 in vascular endothelial cytoprotection. *3 years*	£209,373
PG/10/37/28347	**Prof N S Peters** MD FRCP	Imperial College London	Role of scar geometry in the development of post-infarction ventricular arrhythmias. *3 years*	£189,420
PG/10/94/28651	**Dr A M Randi** MD PhD	Imperial College London	A novel constitutive anti-inflammatory pathway mediated by the endothelial transcription factor ERG. *2 years*	£219,549
PG/10/19/28218	**Prof N Rosenthal** BA PhD	Imperial College London	Regeneration of the mammalian heart with cell and gene therapy. *3 years*	£225,890
PG/11/13/28765	**Dr B J Wojciak-Stothard** MSc PhD	Imperial College London	Chloride intracellular channel protein 4 (CLIC4) and pulmonary vascular remodelling. *3 years*	£199,870
PG/11/28/28844	**Dr L Zhao** PhD	Imperial College London	Investigation into epigenetic basis of pulmonary hypertension: can histone deacetylase inhibitor reverse the pathology? *2 years*	£124,965
PG/10/59/28478	**Dr L Zhao** PhD	Imperial College London	Hypoxia-induced pulmonary hypertension and right ventricular hypertrophy: defining the genes. *1 year*	£63,620
PG/10/34/28338	**Dr L Zhao** PhD	Imperial College London	Assessment of pulmonary vascular remodelling *in vivo* using positron emission tomography. *2 years*	£164,009
PG/10/44/28343	**Prof R M Botnar** PhD	King's College London	MRI of intraplaque albumin as marker for plaque neovascularisation. *2 years*	£192,943

PG/11/21/28797	**Dr D Chen** MD PhD	King's College London	Preventing atherosclerosis by promoting endothelial cell regeneration through anticoagulant expression by smooth muscle progenitors. *1 year 6 months*	£88,894
PG/10/53/28452	**Prof P J Chowienczyk** BSc FRCP	King's College London	Role of the nNOS-cGMP pathway in essential hypertension. *2 years*	£143,832
PG/10/98/28655	**Dr P Eaton** BSc PhD	King's College London	Redox regulation of soluble epoxide hydrolase in cardiovascular health and disease. *3 years*	£246,065
PG/10/45/28276	**Dr R J Heads** BSc PhD	King's College London	Investigating the role of protein kinase novel 1 (PKN1) in cardiac ischaemia-reperfusion injury and myocardial remodelling. *3 years*	£234,401
PG/11/9/28705	**Prof J C Kentish** MA PhD	King's College London	Phenotypic characterisation of human myocardium after repair of Tetralogy of Fallot. *3 years*	£203,459
PG/11/7/28621	**Prof G Lombardi** BSc PhD	King's College London	Role of B cells in the amplification and regulation of transplant rejection. *3 years*	£288,685
PG/10/61/28498	**Dr M Mayr** MD PhD	King's College London	Proteomic analysis of monocyte-platelet interactions. *3 years*	£226,867
PG/10/65/28521	**Dr M C Pfuhl** PhD	King's College London	The interaction of myosin binding protein C with the myosin regulatory light chain: new leverage to address an old problem. *3 years*	£249,085
PG/11/22/28800	**Prof L Poston** BSc PhD	King's College London	A study to determine whether associations between micronutrient status and susceptibility to oxidative stress play a role in the aetiology of pre-eclampsia. *2 years*	£173,256
PG/10/20/28211	**Dr R Southworth** BSc PhD	King's College London	PET imaging of cardiac hypoxia and ischaemia with radiocopper complexes. *3 years*	£221,926
PG/10/67/28527	**Dr R A Steiner** PhD	King's College London	A structural understanding of how the sarcomeric M-band works and is held together. *3 years*	£195,639
PG/10/28/28320	**Prof A Ahluwalia** BSc PhD	Queen Mary, University of London	Investigation of the therapeutic potential of dietary nitrate in atherosclerosis. *3 years*	£196,410
PG/10/29/28323	**Prof R J Schilling** MBBS MRCP	Queen Mary, University of London	Safety and efficacy of paramedic treatment of regular supraventricular tachycardia. *2 years*	£175,936
PG/11/30/28849	**Prof C Thiemermann** MD PhD	Queen Mary, University of London	Pathophysiology and therapy of the cardiac dysfunction in experimental sepsis. *1 year*	£51,762
PG/10/39/28365	**Dr A Collins** BSc MEd PhD	Queen's University, Belfast	MicroRNA regulation of cardiac inward rectifier potassium channel expression. *3 years*	£201,691

PG/10/71/28462	**Dr D Banerjee** MD	St George's, University of London	Impact of vitamin D supplementation on cardiac hypertrophy and function in chronic kidney disease patients – a randomised placebo-controlled trial. *2 years 4 months*	£107,421
PG/10/50/28434	**Dr I Dumitriu** MD PhD	St George's, University of London	Identification of co-stimulatory receptor defects in $CD4^{+}$ $CD28^{null}$ and regulatory T cell subsets in patients with coronary artery disease. *2 years*	£135,274
PG/10/58/28477	**Prof S Jeffery** BSc PhD	St George's, University of London	Genetic analysis of phenotypically well defined patients with primary lymphoedema using next generation sequencing. *3 years*	£195,581
PG/10/30/28330	**Dr C G Owen** BSc PhD	St George's, University of London	Adiposity over the lifecourse and risks of cardiovascular disease, Type 2 diabetes, mobility limitation and healthy survival in older men. *1 year 9 months*	£175,396
PG/10/51/28444	**Dr R A Breckenridge** MRCP	University College London	An investigation into the control of cardiac metabolism and electrophysiology in heart failure. *3 years*	£183,419
PG/10/84/28618	**Dr P A Brogan** BSc MBChB	University College London	Subclinical vasculitis, late vasculopathy and myocardial performance years after Kawasaki disease in the UK. *2 years*	£137,527
PG/10/52/28448	**Dr S Djordjevic** PhD	University College London	Structural and functional analysis of neuropilin-1 and neuropilin-2 interactions with VEGF. *3 years*	£190,818
PG/10/77/28554	**Dr A J Hobbs** BSc PhD	University College London	Optimising NO and natriuretic peptide signalling for the treatment of pulmonary hypertension: regulation of cGMP-hydrolysing phosphodiesterases in the pulmonary vasculature. *3 years*	£208,290
PG/10/72/28499	**Prof S Moncada** MD PhD DSc	University College London	Mitochondrial dysfunction and biogenesis in inflammatory disorders: the role of nitric oxide. *3 years*	£191,902
PG/10/76/28545	**Dr V Muthurangu** BSc MB ChB MRCPCH MD	University College London	Towards a more comprehensive assessment of cardiovascular fitness – magnetic resonance augmented cardiopulmonary exercise testing (MR-CPET). *1 year*	£83,711
PG/10/86/28622	**Dr C Ruhrberg** PhD	University College London	Novel roles for NRP1 in physiological tissue vascularisation. *2 years*	£119,653
PG/10/32/28333	**Prof P J Scambler** MRCPath	University College London	Chromodomain protein CHD7 and its role in cardiovascular morphogenesis: tissue requirements, pathway interactions and their relevance to CHARGE syndrome. *2 years*	£248,775
PG/11/8/28703	**Dr M Delibegovic** PhD	University of Aberdeen	*In vivo* and *in vitro* role of adipocyte and macrophage PTP1B in pathways regulating body mass/adiposity, insulin sensitivity and inflammation. *2 years 6 months*	£227,074

PG/11/1/ 28461	**Dr N J Mutch** BSc PhD	University of Aberdeen	Changes in fibrin clot structure and susceptibility to lysis induced by polyphosphate. *3 years*	£183,438
PG/10/41/ 28385	**Dr A A Sneddon** BSc PhD	University of Aberdeen	Atherosclerosis: the effect of selenium speciation and dose. *1 year*	£77,868
PG/10/33/ 28334	**Prof J Frampton** PhD	University of Birmingham	Recruitment and immunomodulatory effects of mesenchymal stem cells investigated in multicellular, *in vitro* models of inflamed vasculature. *3 years*	£194,257
PG/10/36/ 28341	**Mr D Pagano** MD FRCS	University of Birmingham	The effects of metabolic manipulation on metabolomic profiling and adenosine triphosphate kinetics in left ventricular hypertrophy secondary to aortic stenosis. *2 years*	£92,055
PG/10/73/ 28420	**Dr Y A Senis** PhD	University of Birmingham	Investigating the functional roles of the novel platelet ITIM receptor G6b-B and the SH2 domain-containing protein tyrosine phosphatases Shp1 and Shp2 in megakaryocyte development and platelet formation. *3 years*	£204,421
PG/10/88/ 28628	**Prof S P Watson** BSc PhD FMedSci	University of Birmingham	Signalling events underlying bacterial-mediated platelet activation. *1 year 6 months*	£103,942
PG/11/31/ 28835	**Prof S P Watson** BSc PhD FMedSci	University of Birmingham	Do patients who exhibit serious bleeds on antiplatelet therapy have a previously undiagnosed defect in platelet function? *2 years*	£108,667
PG/11/19/ 28827	**Prof G D Angelini** MD MCh FRCS FMedSci	University of Bristol	Activation of the hypothalamo-pituitary-adrenal axis during cardiac surgery: the effect of surgical stress and cardiopulmonary bypass. *2 years*	£84,182
PG/10/40/ 28369	**Prof R Ascione** MD ChM FRCS	University of Bristol	Lung protection with intermittent pulmonary perfusion with or without continuous low frequency ventilation in a pig model of cardiopulmonary bypass and cardioplegic arrest. *1 year*	£70,535
PG/11/20/ 28792	**Prof D O Bates** BSc PhD	University of Bristol	The angiogenic potential of regulation of VEGF mRNA 3′ processing. *3 years*	£192,628
PG/10/48/ 28421	**Dr S J George** BSc PhD	University of Bristol	Reduction of aneurysm formation and progression by soluble N-cadherin and MMP-7 inhibition. *2 years*	£96,108
PG/10/96/ 28661	**Prof J C Hancox** BSc PhD	University of Bristol	Investigation of the influence of hERG1b on hERG channel pharmacology. *3 years*	£174,605
PG/11/24/ 28818	**Prof J C Hancox** BSc PhD	University of Bristol	Sodium-dependent background current, $I_{B,Na}$: an ignored pacemaking current in the atrioventricular node? *3 years*	£287,098
PG/10/100/ 28658	**Dr I Hers** BSc MSc PhD	University of Bristol	Investigations into the role of insulin/ IGF receptor heterodimers in platelet function. *3 years*	£208,428
PG/10/25/ 28302	**Dr R P Jago** BSc PhD	University of Bristol	TEAMPLAY: parents and children partnering for healthy lifestyles. *1 year 10 months*	£171,970

PG/10/63/28508	**Dr I Khaliulin** PhD	University of Bristol	Mechanism underlying the potent cardioprotection induced by consecutive activation of PKA and PKC. *1 year*	£94,308
PG/10/47/28285	**Prof S Love** MBBCh PhD FRCP FRCPath	University of Bristol	Influence of amyloid B peptide (AB) on an ECE-mediated regulation of cerebral blood flow. *3 years*	£266,848
PG/10/81/28606	**Prof P Madeddu** MD	University of Bristol	Human pericyte progenitor cells and cardiac progenitor cells for specialised stimulation of neovascularisation and cardiomyogenesis of the infarcted heart. *3 years*	£182,109
PG/10/91/28644	**Prof C H Orchard** BSc PhD	University of Bristol	Role of caveolin in localisation of membrane currents to the t-tubules of mammalian ventricular myocytes. *3 years*	£244,984
PG/10/23/28277	**Prof J F R Paton** PhD	University of Bristol	A mechanistic investigation into cardiac vagal ganglionic transmission in heart failure. *3 years*	£198,372
PG/10/27/28312	**Dr R M A Sitsapesan** MSc PhD	University of Bristol	Is the cardiac ryanodine receptor a mechanosensitive ion-channel? *1 year 6 months*	£96,227
PG/10/57/28473	**Prof M Suleiman** DSc PhD	University of Bristol	Dynamic holographic assembler versus atomic force microscopy to investigate the viscoelasticity of isolated cardiomyocytes. *1 year*	£54,235
PG/10/43/28390	**Dr MJ Duer** BA Hons PhD	University of Cambridge	High resolution molecular characterisation of human mineral deposits: mechanisms of calcification initiation and effects on parameters of plaque stability. *3 years*	£291,534
PG/10/99/28656	**Dr D A Giussani** MA PhD	University of Cambridge	Isolating the effects of prenatal hypoxia in programming cardiovascular disease. *3 years*	£210,851
PG/10/74/28483	**Prof A M L Lever** FRCP FRCPath	University of Cambridge	Late outgrowth endothelial progenitor cells and gene transfer for preventing chronic allograft vasculopathy. *3 years*	£230,565
PG/10/35/28339	**Prof N W Morrell** MD MRCP FRCP	University of Cambridge	Role of inflammatory cytokins and bone-marrow derived progenitor cells in schistosomiasis-induced pulmonary vascular remodelling. *3 years*	£198,850
PG/10/38/28359	**Dr J K Sethi** BSc PhD	University of Cambridge	The role of IKKi in atherosclerosis. *3 years*	£234,143
PG/11/10/28724	**Dr P D Upton** BSc PhD	University of Cambridge	Bone morphogenetic protein signalling in the endothelium: establishing the link between pulmonary arterial hypertension and hereditary haemorrhagic telangiectasia. *3 years*	£181,933
PG/10/93/28650	**Dr W Fuller** BA MA PhD	University of Dundee	Characterisation of dynamic changes in caveolar resident proteins during adrenergic signalling using quantitative proteomics. *1 year 6 months*	£97,832

PG/11/14/ 28774	**Prof A D Struthers** MD FRCP FESC	University of Dundee	Allopurinol as a possible new therapy for acute coronary syndromes: the next steps. *2 years 6 months*	£276,911
PG/10/95/ 28657	**Prof A M Evans** BSc PhD	University of Edinburgh	Two-pore calcium channels and NAADP-dependent Ca2+ signalling in arterial smooth muscle cells. *2 years*	£137,490
PG/10/42/ 28388	**Dr M R Miller** BSc PhD	University of Edinburgh	The atherosclerotic effects of particulate air pollution. *3 years*	£243,349
PG/11/27/ 28842	**Dr N Mills** BSc MBChB	University of Edinburgh	Fire-fighters and acute myocardial infarction: understanding the mechanisms and reducing cardiovascular risk. *2 years*	£197,235
PG/10/21/ 28254	**Dr V Sboros** BSc MSc PhD	University of Edinburgh	Exploiting the understanding of the behaviour of microbubble contrast agents for improved microvascular imaging. *3 years*	£179,951
PG/11/17/ 28788	**Prof C P Winlove** BSc PhD	University of Exeter	Novel use of nonlinear microscopy and image-based modelling to determine structure/function relationships in small vessels in health and diabetes. *3 years*	£184,567
PG/11/2/ 28474	**Dr C Berry** MB ChB MRCP PhD	University of Glasgow	Myocardial haemorrhage revealed by 'bright blood' T2-weighted MRI heart attack survivors: impact on heart function and health outcomes. *3 years*	£202,924
PG/10/70/ 28384	**Dr M Ewart** BSc MSc PhD	University of Glasgow	Involvement of AMPK in calcium regulation in atherosclerotic blood vessels. *3 years*	£217,909
PG/10/26/ 28303	**Dr SJ Yarwood** BSc PhD	University of Glasgow	The role of EPAC1-regulated protein kinase C isoforms in mediating C/EBPdelta-dependent, anti-inflammatory actions of cyclic AMP in vascular endothelial cells. *3 years*	£178,111
PG/10/75/ 28537	**Prof M Zaccolo** MD	University of Glasgow	Quantitative analysis of cAMP dynamics in cardiac myocytes sub-compartments. *3 years*	£201,016
PG/10/90/ 28636	**Prof K Naseem** BSc PhD	University of Hull	Myosine light chain phosphatase – a novel target of nitric oxide signalling in blood platelets. *2 years*	£108,905
PG/10/85/ 28619	**Dr T F Batten** BSc PhD	University of Leeds	Central mechanisms of oestrogen modulation of blood pressure regulation. *2 years*	£156,313
PG/11/15/ 28775	**Dr M K Lancaster** BSc	University of Leeds	Ageing to arrhythmias and dysfunction – model-building for mechanisms. *3 years*	£250,982
PG/10/68/ 28528	**Prof A Sivaprasadarao** MSc PhD	University of Leeds	Endocytic sorting of the hERG potassium channel. *2 years*	£93,362
PG/10/66/ 28522	**Dr L A Tskhovrebova** PhD	University of Leeds	Titin-myosin interactions in relation to the structure of the thick filament. *3 years*	£252,339
PG/11/26/ 28838	**Prof N P Brindle** BSc PhD	University of Leicester	Understanding regulation of angiopoietin signalling in the endothelium using computational modelling. *3 years*	£168,772

PG/10/18/28159	**Dr C Dart** BSc PhD	University of Liverpool	The role of Exchange Protein directly Activated by cAMP (EPAC) in the regulation of vascular smooth muscle contractility. *3 years*	£166,384
PG/10/69/28524	**Dr O Aslanidi** PhD	University of Manchester	Evolution of arrhythomogenic substrate for atrial fibrillation: mechanistic insights from an integrative multi-scale model of canine atria. *3 years*	£148,831
PG/10/31/28331	**Prof M R Boyett** BSc PhD	University of Manchester	Effect of athletic training on the cardiac condition system: ups and downs. *3 years*	£260,372
PG/11/11/28725	**Dr P Brownbill** MSc MPhil	University of Manchester	Role of the fetoplacental endothelium in the attenuation of blood flow to the fetus during fetal growth restriction. *3 years*	£290,801
PG/10/24/28284	**Dr H Dobrzynski** BSc PhD	University of Manchester	Characterisation of the structural and functional properties of subsidiary atrial pacemakers in a goat model of sinus node dysfunction. *3 years*	£229,499
PG/11/16/28777	**Prof D A Eisner** MA DPhil FMedSci	University of Manchester	A quantitative determination of how SERCA activity and ryanodine receptor open probability control SR calcium content and cytoplasmic calcium concentration. *3 years*	£189,628
PG/10/87/28624	**Dr K Hentges** BA PhD	University of Manchester	Revealing genetic requirements for left-right axis specification and cardiac development from studies on the /11Jus27 mutant mouse. *2 years*	£141,545
PG/10/46/28370	**Dr P A Kingston** BSc MBChB MRCP PhD	University of Manchester	Optimisation of plasmid vectors for gene therapy into vascular smooth muscle cells. *3 years*	£221,028
PG/11/23/28801	**Dr D Oceandy** MD PhD	University of Manchester	The protective role of Interleukin-10 receptor signalling in the heart. *2 years*	£62,200
PG/10/78/28597	**Dr J Ohanian** BSc PhD	University of Manchester	Regulation of small artery function by endothelin-1. *2 years*	£119,876
PG/10/22/28272	**Dr Z Shui** MD PhD	University of Manchester	Ageing, cholinergic stimulation and pulmonary venoatrial junctions in atrial fibrillation. *3 years*	£295,535
PG/10/89/28630	**Dr A W Trafford** BVS PhD	University of Manchester	Investigating the arrhythmogenic role of intracellular calcium and sarcoplasmic reticulum calcium content in a model of Torsade de Pointes. *3 years*	£229,481
PG/10/49/28422	**Dr R N Khan** BSc PhD	University of Nottingham	Mechanisms underlying non-prostanoid eicosanoid modulation of vascular function in normal and pre-eclamptic pregnancies. *2 years*	£124,274
PG/11/29/28852	**Prof M A Bethel** MD	University of Oxford	Impact of low versus high dose and split doses of acetylsalicylic acid on platelet function in Type 2 diabetes. *6 months*	£51,274

PG/10/62/28504	**Dr A R Bushell** BSc DPhil	University of Oxford	*In vitro* generated regulatory T cells as a cellular therapy to prevent heart allograft rejection and transplant-associated graft vasculopathy. *3 years*	£228,434
PG/10/56/28469	**Dr R D Campbell** BSc PhD	University of Oxford	Development of molecular tools for the study of G6B-b function in platelet activation and thrombosis. *2 years*	£113,931
PG/10/83/28610	**Dr S De Val** PhD BSc	University of Oxford	Identification of the transcriptional code governing coronary vessel development. *3 years*	£208,046
PG/10/60/28496	**Dr D R Greaves** BSc PhD	University of Oxford	The CX3C chemokine fractalkine as a key regulator of monocyte/macrophage survival. *2 years 6 months*	£155,565
PG/11/3/28555	**Mr A L Green** FRCS(SN) MD MB BS BSc	University of Oxford	The effect of brain stimulation on muscle sympathetic nerve activity. *2 years*	£126,709
PG/11/4/28645	**Dr C A O'Callaghan** BA Hons BM BCh MA DPhil MRCP	University of Oxford	Structural and functional studies of the platelet-activating receptor CLEC-2 and molecular approaches to inhibition. *3 years*	£176,940
PG/11/5/28643	**Prof D J Paterson** MSc DPhil	University of Oxford	NOS1 activator protein and the neural control of arrhythmogenesis. *3 years*	£271,363
PG/11/6/28660	**Prof D J Paterson** MSc DPhil	University of Oxford	Neuropeptides and sympatho-vagal crosstalk in the neural control of arrhythmogenesis. *3 years*	£250,952
PG/10/54/28460	**Dr R Wade-Martins** MA DPhil	University of Oxford	Novel molecular strategies to treat familial hypercholesterolaemia by modulation of low density lipoprotein receptor expression. *2 years*	£159,810
PG/10/97/28666	**Dr S Y K Boateng** BSc PhD	University of Reading	Stress-induced post-transcriptional regulation of gene expression by the Exon Junction Complex in cardiac myocytes. *1 year 6 months*	£113,195
PG/10/64/28520	**Dr S Y K Boateng** BSc PhD	University of Reading	The mechanisms of heart failure: mechanosensing and maladaptation in cardiac myocytes. *3 years*	£205,947
PG/10/92/28646	**Prof J D Beard** BM FRCS	University of Sheffield	Is Nordic pole walking more effective than normal walking in improving walking distance in patients with intermittent claudication? A prospective randomised study. *1 year 6 months*	£16,920
PG/11/18/28824	**Prof C G Proud** BSc PhD	University of Southampton	Regulation of the activity and expression of translation factors by hypertrophic stimuli in heart muscle cells (cardiomyocytes). *3 years*	£185,882
PG/10/79/28603	**Dr D MacMillan** PhD	University of Strathclyde	Inhibitory purinergic signalling in vascular smooth muscle and its alteration in hypertension. *2 years*	£154,037

2011 is the British Heart Foundation's 50th birthday. Since 1961, we have been the nation's heart charity, dedicated to saving lives through pioneering research, patient care, campaigning for change and by providing vital information. But we urgently need your help. We rely on your donations of time and money to continue our life-saving work. Because together we can beat heart disease.

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