British Heart Foundation

Research Grant Awards 2011/2012

BEATING HEART DISEASE TOGETHER

British Heart Foundation

Contents

Introduction

In the year April 2011 to March 2012 the British Heart Foundation (BHF) awarded grants totalling £88.4 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 2011-2012 the Chairs and Programme Grants Committee agreed £28.4 million for Programme Grants and other major projects such as Special Projects, New Horizons Grants and an Infrastructure Grant. There were 31 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 £5.6 million, and four new Personal Chairs were awarded totalling £4.1 million. The recipients were: Professor A H Baker, University of Glasgow; Professor J N Danesh, University of Cambridge; Professor G J Murphy, University of Leicester; and Professor K Otsu, King's College London. The Fellowships Committee awarded 93 applications for personal awards costing £23.4 million. The Project Grants Committee awarded 130 applications to the value of £22.8 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 awards 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 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 MA MBChB 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 Epidemiology and Medicine
Held by: **Professor J N Danesh** MBChB MSc DPhil

Major interests: Cardiovascular epidemiology; large-scale studies of genetic and biochemical factors.

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** BSc PhD BM DM DSc FRSE FMedSci FESC FACC

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

University of Glasgow

The Chair of Translational Cardiovascular Sciences
Held by: **Professor A H Baker** BSc PhD

Major interest: Gene- and cell-based therapies to combat vascular disease.

University of Leeds

The Chair of Cardiology
Held by: **Professor S G Ball** MA MB BChir PhD FRCP – Retired February 2012

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

University of Leicester

The Chair of Cardiac Surgery
Held by: **Professor G J Murphy** BSc MBChB MD FRCS

Major interest: Strategies to reduce distal organ injury occurring during cardiac surgery.

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 FMedSci

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

King's College London

The Chair of Cardiology
Held by: **Professor K Otsu** MD PhD FAHA

Major interest: Inflammatory mechanisms in heart failure.

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 – Retired March 2012

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 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 2011 – 31 March 2012

Fellowships

Non-clinical Fellowships

Senior Basic Science Research Fellowships

FS/11/49/28751	**Dr S J Mundell** BSc PhD	University of Bristol	Role of G protein-coupled receptor sorting in platelet function. *5 years*	£502,755
FS/11/50/29038	**Dr J E S Schneider** PhD	University of Oxford	New horizons in preclinical cardiovascular magnetic resonance. *5 years*	£909,071

Intermediate Basic Science Research Fellowships

FS/11/51/28920	**Dr B M Luken** MSc PhD	Imperial College London	The critical role of the von Willebrand factor A2 domain as a shear force sensor. *4 years*	£497,301
FS/11/53/29020	**Dr D Warren** PhD	King's College London	A pivotal role for the LINC complex and nesprins in vascular smooth muscle cell mechanical coupling and phenotypic modulation. *4 years*	£560,932
FS/11/19/28761	**Dr A Woodfin** PhD	Queen Mary, University of London	The profile and mechanisms of inflammatory responses in angiogenic microvessels. *4 years*	£554,125
FS/12/1/29080	**Dr N Marina-Gonzalez** PhD	University College London	Peripheral and central adipokine sensors and their role in the development of obesity-related hypertension. *1 year*	£69,735
FS/11/52/29018	**Dr A Caporali** BSc	University of Bristol	Inter-cellular trafficking and regulation of microRNA-503 expression in diabetes-induced microvascular complications. *4 years*	£439,533
FS/12/2/29300	**Dr K Brack** BSc PhD	University of Leicester	Significance of intrinsic cardiac ganglia in the control of cardiac performance in health and disease. *4 years*	£418,005
FS/11/20/28857	**Dr H M Phillips** BSc MSc PhD	University of Newcastle	Role of Rho kinase in ventricular development and adult heart disease. *4 years*	£508,189
FS/11/18/28633	**Dr L Hodson** BSc PhD	University of Oxford	An investigation of intra-hepatic fatty acid partitioning and its regulation in man: relevance to the production of atherogenic lipoproteins. *4 years*	£480,651

4-year PhD Studentships

FS/11/80/29330	**Prof M Avkiran** BSc PhD DSc	King's College London	3rd intake 2011/12 4-Year PhD Studentship Scheme: Ms Joanna Furmston; Mr Rajesh Mistry; Ms Hannah Tomlins; Ms Vesna Zuzel. *4 years*	£567,916
FS/11/83/29333	**Prof P J Scambler** BSc MB ChB MD FRCPath	University College London	3rd intake 2011/12 4-Year PhD Studentship Scheme: Mr Daniel Dilg; Ms Bridget-Ann Kenny; Ms Hannah Nicholas; Dr Denes Stefler. *4 years*	£571,196
FS/11/77/29327	**Prof M R Bennett** BSc MA MBChB PhD FRCP FAHA FMedSci	University of Cambridge	3rd intake 2011/12 4-Year PhD Studentship Scheme: Mr William Bernard; Mr Alessandro Bertero; Ms Laura Burzynski; Ms Victoria Pell. *4 years*	£567,044
FS/11/78/29328	**Dr M Bailey** BSc PhD	University of Edinburgh	3rd intake 2011/12 4-Year PhD Studentship Scheme: Ms Susan Gallogly; Ms Jessica Ivy; Ms Sana Maqsood; Ms Rebecca Moorhouse. *4 years*	£523,840
FS/11/79/29329	**Prof A F Dominiczak OBE** MD FRCP FAHA FRSE FMedSci	University of Glasgow	3rd intake 2011 /12 4-Year PhD Studentship Scheme: Mr Christopher Lavery; Ms Kirsten Munro; Ms Katrin Nather; Mr Martin Wilson. *4 years*	£526,656
FS/11/81/29331	**Dr C E Austin** BSc PhD	University of Manchester	3rd intake 2011/12 4-Year PhD Studentship Scheme: Ms Samantha Borland; Ms Charlotte Bussey; Ms Thomas Morris; Ms Maria Pieri. *4 years*	£528,144
FS/11/82/29332	**Prof D R Greaves** BSc PhD	University of Oxford	3rd intake 2011/12 4-Year PhD Studentship Scheme: Mr Arne Bruyneel; Mr Harrison Davis; Mr Drew Duglan; Mr Daniel Regan-Komito. *4 years*	£572,116

Career Re-entry Research Fellowship

FS/11/21/28691	**Dr D Proudfoot** BSc PhD	Babraham Institute, Cambridge	Uncovering the mechanisms by which nanoparticulate calcium phosphate crystals induce vascular smooth muscle cell death. *3 years*	£303,016

Advanced Training Award

FS/11/22/28745	**Dr C Cantwell** MMath MSc PhD	Imperial College London	Measurement site selection for the optimal reduction of uncertainty in computer models of cardiac conduction. *3 years*	£125,064

3-year PhD Studentships

FS/11/27/28756	**Mr J Firth** BSc	Cardiff University	Structural mechanisms of gating at the selectivity filter of the cardiac ryanodine receptor channel (RyR2) and a potential gate-coupling element. *3 years*	£86,166
FS/11/26/28750	**Miss N Price** BSc	Cardiff University	Mechanisms of vascular dysfunction in rheumatoid arthritis. *3 years*	£113,355
FS/11/25/28740	**Ms Z Hira** MSc	Imperial College London	Integrated network analysis of the regulation of left ventricular hypertrophy and microvascular remodelling. *3 years*	£92,050
FS/11/55/28911	**Mr L Iannone** BSc MSc	Imperial College London	ADMA metabolism and chronic hypoxia-induced pulmonary hypertension. *3 years*	£105,791
FS/11/60/28940	**Ms N Reglinska** BSc	Imperial College London	Inhibitory role of TFPI/protein S complex in the initiation phase of coagulation. *3 years*	£113,644
FS/11/29/28759	**Ms G Barnett** BSc	King's College London	Embryonic stem cell differentiation to the vascular lineage: a proteomics approach. *3 years*	£106,678
FS/11/24/28735	**Ms N Pace** BSc	King's College London	Structure of thin filament complexes: new insights by solid state NMR spectroscopy. *3 years*	£106,678
FS/11/64/28945	**Mr K Cheung** BSc	Queen Mary, University of London	Molecular mechanisms of endothelial cytoprotection by CD31-mediated signals. *3 years*	£105,951
FS/11/30/28789	**Miss E Kay** MSc	Queen Mary, University of London	Regulation and function of Toll-like receptors in leukocyte recruitment *in vivo*. *3 years*	£113,304
FS/11/28/28758	**Mr A Moore** BSc	Queen Mary, University of London	Regulation of matrix metalloproteinase-14 expression by hypoxia-inducible transcription factor – implications in neovessel formation in atherosclerotic plaques. *3 years*	£106,312
FS/11/36/28872	**Mr M Tate** BSc	Queen's University, Belfast	Does glucagon-like peptide-1 modulate progression of cardiac remodelling in diabetes via specific actions on inflammation and the extracellular matrix? *3 years*	£100,195
FS/11/88/29205	**Miss R Coker** BSc	University College London	Cardiac amyloid: investigation of the role of serum amyloid P component in fibrillogenesis. *3 years*	£109,471
FS/11/23/28730	**Miss J McKean** BSc MSc	University of Aberdeen	Uncovering new therapeutic targets for inhibiting VSM cell migration: role of Rap1. *3 years*	£100,266
FS/11/87/29199	**Ms E Thompson** BMed Sc	University of Birmingham	Mechanisms underlying the detrimental effects of ageing on cerebrovascular responses to rises in blood pressure. *3 years*	£111,933

FS/12/3/29232	**Mr T Blair** BSc	University of Bristol	The role and regulation of the mammalian target of rapamycin complex (mTORC)1 and mTORC2 in platelet function and arterial thrombosis. *3 years*	£103,402
FS/11/57/28936	**Mr B Littlejohns** BSc	University of Bristol	Role of mitochondria in increased vulnerability to insults of hearts and cardiomyocytes isolated from mice fed a 'Western-style' high-fat diet. *1 year, 9 months*	£60,790
FS/11/59/28938	**Mr D Melgari** BSc MSc	University of Bristol	Flecainide inhibition of the hERG potassium channel: binding site and role of drug ionisation. *3 years*	£97,295
FS/11/31/28790	**Ms F O'Brien** BSc	University of Bristol	Novel phosphorylation control mechanisms in cardiac sarcoplasmic reticulum. *3 years*	£99,464
FS/11/84/29121	**Mr M D Richards** BSc	University of Bristol	Mechanisms of neovascularisation: the role of the novel cytoskeletal regulator DAAM2 in angiogenesis. *3 years*	£99,620
FS/11/32/28814	**Mr A P Richardson** BSc	University of Bristol	The molecular mechanism of the mitochondrial permeability transition pore. *3 years*	£99,851
FS/11/62/28934	**Miss M van den Bosch** BSc	University of Bristol	Role of the motor protein myosin Va in regulating platelet secretion and function. *3 years*	£115,439
FS/11/34/28860	**Mr X Ye** BSc	University of Bristol	To investigate the role of VEGF splicing and alternative therapeutic options in capillary haemangiomas. *3 years*	£110,205
FS/11/85/29129	**Mr A Buckroyd** BSc MRes	University of Cambridge	Regulation of vascular smooth muscle alternative splicing by core splicing factors. *3 years*	£102,025
FS/12/4/29254	**Dr L Gaynor** BSc MBBS	University of Cambridge	Immunogenetics of uterine natural killer cell and trophoblast interactions in trophoblast invasion and uteroplacental arterial remodelling. *3 years*	£117,608
FS/11/35/28871	**Miss H Lalarukh** BSc	University of Cambridge	Does the orphan G-protein coupled receptor, GPR61, play a role in the secretion of aldosterone from normal or adenomatous human adrenal? *3 years*	£119,599
FS/11/33/28831	**Mr N K Moss** BSc	University of Leeds	TRPC channel surface stability and cholesterol-dependent retraction. *3 years*	£107,600
FS/11/63/28944	**Mr M Miossec** BSc MSc	University of Newcastle	Whole-exome capture and next-generation sequencing to discover rare variants predisposing to congenital heart disease. *3 years*	£116,209
FS/12/7/29359	**Ms Z Abbas** BSc	University of Nottingham	Identification and characterisation of the novel P2Y14 purine receptor in the coronary vasculature. *3 years*	£103,024

FS/11/61/ 28941	**Ms R Manna** BSc	University of Nottingham	Investigation of the coagulation Factor XII protease domain structure and inhibition. *3 years*	£89,882
FS/11/58/ 28937	**Miss C Palmer** BSc	University of Nottingham	Redox role of STAT3 in the survival of cardiomyocytes during hypoxia/oxidative stress. *3 years*	£98,202
FS/11/86/ 29137	**Mrs P Sasikumar** BSc MSc	University of Reading	The regulation of platelet function and cell signalling by a newly identified platelet collagen receptor, the chaperone protein HSP47. *3 years*	£100,497
FS/11/54/ 28910	**Ms K Radford** BSc	University of Sheffield	Structure/function relationships of the Tie2 receptor tyrosine kinase in endocytosis and signalling. *3 years*	£100,073
FS/11/56/ 28912	**Mr T Carson** BSc	University of Strathclyde	Vein graft success depends on tissue hypoxia modulating TLR and PLC gamma. *3 years*	£100,263
FS/12/6/ 29358	**Student to be appointed**	University of Birmingham	Does impaired microvascular unit perfusion lead to cardiac dysfunction in diabetic cardiomyopathy? *3 years*	£105,281
FS/12/5/ 29339	**Student to be appointed**	University of Bristol	Gene expression changes in the hypothalamus implicated in hypertension. *3 years*	£102,112

Travel Fellowships

FS/11/69/ 29017	**Dr F S Ng** MRCP	Imperial College London	Infarct border zone as a determinant of post-infarction ventricular arrhythmias in human myocardium. *1 year*	£50,688
FS/11/39/ 28754	**Dr T P E Lockie** BSc MBChB	King's College London	Dual-sensor pressure and flow measurements in the assessment of impaired coronary microvascular and endothelial function. *1 year*	£62,554
FS/11/68/ 28821	**Dr A S Greenstein** BSc MB ChB MRCP PhD	University of Manchester	Mechanisms of adipose vascular coupling. *1 year*	£106,592

Clinical Fellowships

Senior Clinical Research Fellowships

FS/12/8/29377	**Dr I B Wilkinson** MA DM MRCP	University of Cambridge	Aortic stiffness: mechanisms and clinical importance. *5 years*	£983,605
FS/11/65/28865	**Dr P Leeson** PhD MRCP	University of Oxford	Endothelial dysfunction and predisposition to hypertension: cardiovascular studies in offspring of hypertensive pregnancies. *5 years*	£1,085,963

Intermediate Clinical Research Fellowships

FS/11/38/28864	**Dr S Babu-Narayan** MRCP	Imperial College London	Predicting cardiac events in congenital heart disease: the role of focal and interstitial fibrosis. *4 years*	£636,507
FS/11/67/28954	**Dr A R Lyon** MA BM BCH	Imperial College London	Spatiotemporal patterns of cardiometabolic vulnerability in the intact failing heart. *4 years*	£816,090
FS/11/37/28819	**Dr B Modarai** BSc MBBS MRCS PhD FRCS	King's College London	Developing a novel cell candidate and perfusion imaging strategy for the treatment of critical leg ischaemia. *4 years*	£730,778
FS/11/66/28855	**Dr C Antoniades** MD PhD	University of Oxford	The role of adiponectin in the regulation of vascular and myocardial superoxide generation in human coronary artery disease. *4 years*	£657,372

Clinical Research Leave Fellowship

FS/11/89/29162	**Dr G A MacGowan** MD FACC FRCPI	University of Newcastle	Cardiac energetics and function in normal human ageing. *3 years*	£287,177

Clinical Research Training Fellowships

FS/11/42/28753	**Dr C L Percy** MBBS BSc	Cardiff University	Predicting excess bleeding due to haemostatic failure following cardiopulmonary bypass surgery. *3 years*	£185,878
FS/12/12/29294	**Dr G Cole** MA MB BChir MRCP	Imperial College London	Accurate, reproducible and meaningful quantification of cardiac performance and volume status by non-specialists. *3 years*	£192,124
FS/11/75/29030	**Dr A Finnemore** MBBCh	Imperial College London	Quantitative assessment and functional correlates of cardiac mechanics and energetics in newborn infants. *2 years*	£113,403
FS/11/48/28869	**Dr B Iqbal** BSc MBBS MRCP	Imperial College London	The role of tristetraprolin (TTP) and Poly(ADP-Ribose)-Polymerase-14 (PARP-14) in the post-transcriptional regulation of monocyte-macrophage tissue factor expression. *1 year, 6 months*	£102,092

FS/11/46/ 28861	**Dr R Petraco Da Cunha** MBBS MRCP	Imperial College London	Ischaemia-induced electromechanical delay for the diagnosis of coronary artery disease. *2 years*	£159,004
FS/11/92/ 29122	**Dr S M A Sohaib** MBBS BSc	Imperial College London	Cardiac resynchronisation therapy: does the haemodynamic improvement of biventricular pacing truly arise from cardiac resynchronisation? *3 years*	£190,442
FS/11/43/ 28760	**Dr K Asrress** MA BM BCh MRCP	King's College London	Unravelling the mechanisms of exercise-induced angina and the actions of GTN by magnetic resonance imaging and invasive assessment of coronary haemodynamics. *3 years*	£225,033
FS/11/93/ 29163	**Dr Z Chen** BSc MBBS FRCP	King's College London	Assessment of left ventricular grey zone using MRI to predict ventricular arrhythmias in patients with implantable defibrillators. *2 years*	£144,318
FS/12/16/ 29384	**Dr S Kalra** BA MA MBBS MRCP	King's College London	Using smooth muscle derived microvesicles as vascular risk biomarkers in humans. *2 years*	£136,809
FS/11/45/ 28859	**Dr K Khavandi** MBChB MRes	King's College London	Novel approaches to understanding oxidant sensing and signalling in the cardiovascular system. *3 years*	£192,142
FS/12/15/ 29380	**Dr M Z O Khawaja** MBBS	King's College London	Describing the haemodynamic modification of coronary and aortic disease in severe aortic stenosis. *3 years*	£251,240
FS/11/70/ 28917	**Dr A Myat** BSc MBBS MRCP	King's College London	Liraglutide-stimulated cardioprotection: is it novel and can it be an anti-anginal agent? *3 years*	£230,767
FS/12/9/ 29233	**Dr S Omar** MBBS MRCP	King's College London	Inorganic nitrite and large artery function. *2 years*	£142,352
FS/11/90/ 29087	**Dr R P C Williams** MBBS BSc	King's College London	The assessment of coronary blood flow and myocardial work in patients with warm-up angina: increased flow or reduced need? *3 years*	£209,898
FS/11/41/ 28749	**Dr S Velmurugan** BSc MBBS	Queen Mary, University of London	Investigation of the effect of dietary nitrate on platelet reactivity and vascular function using advanced magnetic resonance imaging in patients with hypercholesterolaemia. *2 years, 6 months*	£244,954
FS/12/11/ 29289	**Dr J Lane** BSc MBChB MRCP	Queen Mary, University of London	Are changes in the expression of inhibitory heterotrimeric G-proteins protective or maladaptive in heart failure? *3 years*	£229,624
FS/11/40/ 28739	**Dr K Gordon** MBBS MRCP	St George's, University of London	Progressing classification and understanding of primary lymphoedema by genetic analysis of patient cohorts. *2 years*	£127,381

FS/11/71/28918	**Dr H Raju** MBChB MRCP	St George's, University of London	Next generation sequencing of inherited cardiac conditions: future diagnostic role and novel genetic *loci* in sudden arrhythmic death syndrome. *2 years*	£154,451
FS/11/72/28955	**Dr D Knight** BSc MBBS	University College London	Towards a more comprehensive assessment of the right ventricle by echocardiography: novel techniques applied to carcinoid heart disease and pulmonary hypertension. *2 years*	£116,618
FS/11/76/29037	**Dr M Quail** BSc MBChB	University College London	Patient-specific modelling of complex cardiovascular mechanics in congenital heart disease. *3 years*	£178,341
FS/11/44/28820	**Dr A Aziz** MBChB MRCP	University of Leeds	Enhancing vascular endothelial repair in the setting of insulin resistance: the role of insulin-like growth factor binding protein-1. *3 years*	£191,241
FS/11/91/29090	**Miss K Griffin** MA MB BChir	University of Leeds	The role of transglutaminases in the development of aortic abdominal aneurysms. *3 years*	£172,160
FS/11/73/29014	**Dr B Mercer** MBChB MRCP	University of Leeds	Manipulating the phenotype of endothelial progenitor cells from insulin-resistant South Asian men: towards cell-based therapies. *3 years*	£162,740
FS/11/94/29180	**Dr A Sengupta** MBChB MRCP	University of Leeds	Can restoration of vascular endothelial insulin signalling rescue impaired endogenous vascular repair in systemic insulin resistance? *3 years*	£178,773
FS/12/10/29265	**Dr M Choudhury** BSc MBChB	University of Manchester	Biopacemakers: new concepts and new targets. *3 years*	£168,335
FS/12/13/29307	**Dr H Schneider** MRCP	University of Manchester	Is cardiac ion channel remodelling the cause of arrhythmia in patients with previous surgical correction of tetralogy of Fallot? *2 years*	£128,690
FS/11/47/28867	**Dr D T Raine** BMedSci MBBS	University of Newcastle	Surface ECG waveform analysis in determining the extent of atrial remodelling and predicting ablation outcomes in patients with atrial fibrillation. *2 years*	£103,787
FS/12/14/29354	**Dr V Stoll** MA (Cantab) BMBCh MRCP	University of Oxford	Characterisation of 3D time-resolved intra-cardiac blood flow in the failing heart using advanced cardiovascular magnetic resonance techniques. *3 years*	£284,852
FS/11/74/29015	**Dr T Ellam** BA BM BCh MRCP	University of Sheffield	The effects of modulating dietary phosphate exposure on endothelial function. *3 years*	£184,666

Personal Chairs

CH/11/2/28733	**Prof A H Baker** BSc PhD	University of Glasgow	The BHF Chair of Translational Cardiovascular Sciences. *10 years*	£1,134,216
CH/12/2/29428	**Prof J N Danesh** MBChB MSc DPhil	University of Cambridge	The BHF Chair of Epidemiology and Medicine. *10 years*	£499,348
CH/12/1/29419	**Prof G J Murphy** BSc MBChB MD FRCS	University of Leicester	The BHF Chair of Cardiac Surgery. *10 years*	£1,282,707
CH/11/3/29051	**Prof K Otsu** MD PhD FAHA	King's College London	The BHF Chair of Cardiology. *10 years*	£1,175,453

Infrastructure Grant

IG/12/1/29410	**Prof J M Gibbins** BSc PhD	University of Reading	Funding towards the establishment of an Institute for Cardiovascular and Metabolic Research at the University of Reading. *1 year, 6 months*	£500,000

New Horizons Grants

NH/12/2/29427	**Dr F F Fraternali** PhD	King's College London	Biophysical investigation of nesprin spectrin repeats: implications for cardiovascular cell function. *3 years*	£263,187
NH/11/5/29058	**Prof N P Smith** PhD	King's College London	Integrated mathematical modelling and comprehensive MR imaging for DCM assessment. *3 years*	£207,473
NH/11/3/29033	**Dr A Stephanou** MSc PhD	University College London	Bio-electrospraying cardiac cells: a novel direct tissue engineering and regenerative medicinal approach for bio-repairing the heart. *3 years*	£265,101
NH/11/6/29061	**Prof S P Watson** BSc PhD FMedSci	University of Birmingham	Development and application of dynamic imaging of adhesion, spreading and migration in megakaryocytes/platelets and neutrophils. *3 years*	£299,932
NH/11/1/28922	**Prof R W Farndale** MA PhD	University of Cambridge	Development of matrix scaffolds that support cardiovascular repair and regeneration. *2 years, 10 months*	£298,018
NH/11/4/29059	**Dr G D Moggridge** MA PhD	University of Cambridge	Engineering anisotropic polymer nano-composites for improved prosthetic heart valve leaflets. *3 years*	£261,241

NH/12/1/29382	**Dr S Plein** MRCP MD PhD	University of Leeds	Gadolinium labelled aptamers as targeted contrast agents for use in cardiac MRI – targeting Tenascin-C at sites of cardiac injury and remodelling. *2 years, 6 months*	£299,972
NH/11/2/28923	**Dr C Dart** BSc PhD	University of Liverpool	Bioinformatics-driven exploration of the caveolin interactome: towards the development of specific modulators of pathogenic protein-protein interactions. *2 years*	£97,253
NH/11/8/29253	**Prof R E Morris** MA DPhil	University of St Andrews	Porous material delivery methods for 'toxic' gases in cardiovascular science. *3 years*	£288,748
NH/11/7/29032	**Dr G Cavalli-Petraglia** BSc MPhil PhD	University of Surrey	Targeted supramolecular nanotherapeutic agents to reduce excess cholesterol. *3 years*	£298,929

Programme Grants

RG/11/19/29264	**Prof S E Harding** BSc PhD	Imperial College London	Human cardiomyocytes from pluripotent stem cells to study beta-adrenoceptor signalling. *2 years*	£472,425
RG/11/13/29055	**Prof R Krams** MD PhD	Imperial College London	Blood flow affects the spatial organisation of (vulnerable) plaques: new ways to modify TCFA formation. *5 years*	£742,908
RG/11/21/29335	**Dr P K Luther** BSc PhD	Imperial College London	Unravelling the fine structure of the myocardium by modern electron microscopy: structural basis of regulation and disease. *5 years*	£750,062
RG/11/20/29266	**Prof S B Marston** MA DPhil DSc	Imperial College London	RENEWAL: Molecular mechanisms by which mutations in myofibrillar proteins cause primary cardiomyopathies. *5 years*	£1,281,568
RG/11/17/29256	**Dr A M Randi** MD PhD	Imperial College London	Validation of the transcription factor erg as a target for the prevention and treatment of cardiovascular diseases. *5 years*	£1,203,516
RG/12/1/29262	**Prof R M B Botnar** PhD	King's College London	Molecular imaging of dysfunctional matrix remodelling in arterial disease. *5 years*	£1,094,302
RG/11/12/29052	**Prof K Otsu** MD PhD FAHA	King's College London	Non-apoptotic cell death in heart failure. *5 years*	£1,755,590
RG/11/14/29056	**Prof C M Shanahan** BSc PhD	King's College London	RENEWAL: Mechanisms of vascular smooth muscle cell calcification and ageing. *5 years*	£1,481,252
RG/12/4/29426	**Prof M J Shattock** BSc PhD FRCP (Ed)	King's College London	RENEWAL: Regulation of the cardiac Na/K ATPase in health and disease. *5 years*	£1,565,543

RG/11/11/ 29050	**Prof I C Zachary** BSc PhD	University College London	RENEWAL: Mechanisms and biological roles of the VEGF receptor/neuropilin signalling axis in cardiovascular health and disease. *5 years*	£1,204,472
RG/11/16/ 29260	**Prof A Giussani** MA PhD	University of Cambridge	RENEWAL: Programming of cardovascular dysfunction by prenatal hypoxia, glucocorticoids and oxidative stress. *5 years*	£1,165,872
RG/11/8/ 29214	**Prof J W Mant** MA MBBS MSc MD	University of Cambridge	Third Joint Stroke Association/British Heart Foundation Programme Grant: does a 'polypill' have a role in secondary prevention of stroke in older people in the developed world? *5 years*	£749,864
RG/11/7/ 28916	**Prof M R MacLean** BSc PhD	University of Glasgow	Gender and the development of pulmonary arterial hypertension. *5 years*	£541,634
RG/11/10/ 28924	**Prof D S Steele** BSc PhD	University of Leeds	The role of abnormal local Ca^{2+} signalling in myocardial dysfunction induced by sustained β1- adrenoceptor activation or phosphodiesterase inhibition. *5 years*	£558,628
RG/11/18/ 29257	**Prof M R Boyett** BSc PhD	University of Manchester	RENEWAL: Mapping cardiac conduction system in disease. *5 years*	£1,481,308
RG/12/2/ 29416	**Dr H M Arthur** BSc PhD	University of Newcastle	Vascular regeneration and heart repair – exploiting the pro-angiogenic properties of endoglin. *5 years*	£1,016,891
RG/11/15/ 29375	**Prof B Casadei** MD DPhil FRCP FESC	University of Oxford	RENEWAL: Atrial nitrosoredox imbalance and inflammation in atrial fibrillation: mechanistic and therapeutic implications. *5 years*	£1,074,312
RG/11/9/ 28921	**Dr D J Tyler** PhD	University of Oxford	Establishing human cardiac hyperpolarised magnetic resonance: initial development and application. *2 years*	£1,430,667
RG/12/3/ 29423	**Prof M Zaccolo** MD	University of Oxford	Phosphodiesterase-2 and spatial control of cAMP signals in the heart. *5 years*	£1,006,670

Special Project Grants

SP/12/2/29422	**Dr R Al-Shahi Salman** MA MB BChir MRCP PhD FRCP	University of Edinburgh	REstart or STop Antiplatelets Randomised Trial (RESTART). *5 years*	£1,342,826
SP/11/3/29215	**Prof A H Baker** BSc PhD	University of Glasgow	Joint funding with MRC: Gene therapy for vein graft failure. *5 years*	£784,591
SP/12/1/29062	**Dr J P Greenwood** MB ChB	University of Leeds	Clinical Evaluation of 3T MAgnetic Resonance imaging for the management of patients with Coronary heart disease: the CE-MARC 2 study. *5 years*	£1,177,145
SP/11/2/29063	**Medical Research Council**	Medical Research Council	Joint funding with MRC: MRC e-health centres' call for health informatics research in the UK. *5 years*	£1,000,000
SP/11/4/29251	**Prof P M Fischer** BSc PhD	University of Nottingham	Discovery of selective coagulation factor XIIa inhibitors. *3 years*	£411,460

Project Grants

Listed alphabetically by Institute

PG/11/69/29076	**Dr P E James** BSc PhD	Cardiff University	Cardiac microvascular function: assessment and protection during coronary intervention. *2 years*	£83,232
PG/11/73/29095	**Dr B Latinkic** BSc PhD	Cardiff University	Mechanisms of action of cardiogenic transcription factor GATA4. *3 years*	£192,412
PG/11/115/29287	**Dr B Latinkic** BSc PhD	Cardiff University	Identification and analysis of a genomic programme for cardiac specification. *3 years*	£201,697
PG/11/87/29158	**Prof A J Williams** BA PhD	Cardiff University	Uncovering the mechanisms involved in the block of Ca^{2+} release from the cardiac sarcoplasmic reticulum by flecainide. *2 years*	£274,862
PG/12/30/29498	**Dr J B Crawley** BSc PhD	Imperial College London	ADAMTS18, its substrates and vascular role. *3 years*	£195,865
PG/11/53/28991	**Dr J E Davies** MRCP MBBS BSc	Imperial College London	Assessment of the acute and long-term benefits of percutaneous aortic valve replacement on coronary haemodynamics. *2 years*	£127,953
PG/12/29/29497	**Prof A D Hughes** BSc MBBS PhD	Imperial College London	Role of microcirculation in cardiovascular, metabolic and cognitive function in three ethnic groups. A Southall and Brent REvisited (SABRE) sub study. *1 year*	£95,824
PG/11/34/28793	**Prof R H Knoll** MD	Imperial College London	Analysis of Miz1 – a novel MLP interacting protein. *3 years*	£205,856

PG/11/50/28984	**Prof M A Laffan** MRCPath	Imperial College London	The role of the von Willebrand Factor A1 domain in determining vessel wall adhesion. *3 years*	£178,464
PG/11/104/29226	**Prof M A Laffan** MRCPath	Imperial College London	Structural basis of TFPIα and TFPIβ cell surface activities. *3 years*	£118,498
PG/12/27/29489	**Dr D O'Regan** MRCP FRCR PhD	Imperial College London	Effect of rare variants in endonuclease G and phospholamban on left ventricular function assessed with 3D cardiac MRI. *2 years*	£180,711
PG/11/36/28883	**Dr R Wensel** MD PhD	Imperial College London	Improving the ability of the cardiopulmonary exercise test to distinguish between cardiovascular and respiratory components of functional limitation. *2 years*	£178,348
PG/11/81/29130	**Dr L Ying** PhD	Imperial College London	A new therapeutic approach based on small molecule ligands targeting DNA quadruplexes in the genes related to heart failure. *3 years*	£181,653
PG/12/34/29557	**Prof S D Brain** BSc PhD	King's College London	Does CGRP play a pivotal protective role in vascular inflammation and is it a potential therapeutic target? *3 years*	£210,973
PG/11/124/29318	**Dr A C Brewer** BSc PhD	King's College London	The role of Nox4 in the regulation of maternal biomarkers of congenital heart defects. *3 years*	£215,008
PG/11/123/29317	**Dr E Ehler** PhD	King's College London	The formin FHOD3 – a safeguard of myofibrils in the heart. *3 years*	£180,270
PG/12/16/29443	**Prof A Ferro** MB BS PhD FRCP	King's College London	β-Catenin as a novel mediator of nitric oxide-regulated gene transcription in vascular endothelium. *3 years*	£189,986
PG/11/127/29322	**Prof M S Gautel** MD PhD	King's College London	MURF2: an overlooked nuclear player in cardiac development and remodelling? *3 years*	£225,302
PG/12/5/29350	**Dr G F Greil** MD	King's College London	Detection and grading of coronary allograft vasculopathy in children using magnetic resonance imaging. *2 years*	£133,858
PG/11/100/29211	**Prof J C Kentish** MA PhD	King's College London	Phosphorylation of cardiac myofilaments by protein kinase D: a novel role in regulating myocardial performance in heart failure? *3 years*	£204,195
PG/11/111/29270	**Dr G E D Mullen** BSc PhD	King's College London	Non-invasive imaging of activated complement after acute myocardial infarction: a potential biomarker for ischaemia reperfusion injury. *2 years*	£157,229
PG/11/101/29212	**Dr S A Niederer** DPhil	King's College London	Optimising cardiac resynchronisation therapy lead placement for long-term outcomes. *2 years*	£102,811

PG/11/90/28994	**Dr M D Sinha** MBBS MRCP PG DIP	King's College London	The Hypertension Optimal Treatment in children with chronic KIdney Disease study: The HOT-KID study – a randomised trial to compare effects of aggressive versus standard targets in blood pressure on target organ damage in children with CKD. *3 years*	£247,487
PG/12/11/29408	**Dr L Zeng** PhD	King's College London	The role of XBP1 splicing in smooth muscle proliferation and atherosclerosis. *3 years*	£244,739
PG/12/26/29477	**Dr M Zhang** MD PhD	King's College London	The roles of NOX4 and its crosstalk with C/EBPβ signalling in exercise-induced cardiac hypertrophy. *3 years*	£218,508
PG/11/58/29004	**Dr Q Zhang** BSc PhD	King's College London	The role of nesprins in cardiac cell function. *3 years*	£52,072
PG/12/15/29442	**Prof M Richards** BA PhD	Medical Research Council	Lifetime affective problems and risk of cardiovascular disease in early old age: a longitudinal birth cohort study. *2 years*	£106,310
PG/11/109/29247	**Dr R L Williams** PhD	Medical Research Council	Understanding the mechanism of regulation of class I P13K by G proteins and PKA in cardiac dysfunction. *3 years*	£158,838
PG/12/28/29494	**Prof A Ahluwalia** BSc PhD	Queen Mary, University of London	Investigation of the role of the kinin B1 receptor in atherosclerosis. *1 year*	£78,986
PG/11/39/28890	**Dr D Bishop-Bailey** BSc PhD	Queen Mary, University of London	The role of endogenous epoxygenases in the regulation of LyC6-hi monocytes: a novel pathway in vascular inflammation. *3 years*	£206,450
PG/11/48/28981	**Prof M Perretti** MSc PhD	Queen Mary, University of London	Potential for an ischaemia-specific protective pathway centred on melanocortin receptor 3. *3 years*	£223,456
PG/12/10/29389	**Prof K Suzuki** MD PhD	Queen Mary, University of London	'Cell-sheet' therapy using allogeneic mesenchymal stem cells for ischaemic cardiomyopathy. *2 years*	£140,486
PG/11/75/29105	**Prof T D Warner** BSc PhD	Queen Mary, University of London	Exploiting synergies between therapeutic drugs and endogenous mediators to improve anti-thrombotic therapy in patients with peripheral arterial disease. *2 years*	£113,157
PG/11/40/28891	**Dr Q Xiao** BSc MD PhD	Queen Mary, University of London	Crucial role of microRNA-34a in smooth muscle cell differentiation and neointima formation. *3 years*	£187,052
PG/11/102/29213	**Dr K Yashiro** MD PhD	Queen Mary, University of London	The role of *Sox17* on endocardium fate determination in cardiac progenitors. *3 years*	£244,471
PG/11/99/29207	**Dr T M Curtis** BSc PhD	Queen's University, Belfast	CAMKII: a novel therapeutic target for pathological ocular angiogenesis? *3 years*	£161,630

PG/11/94/29169	**Prof J G McGeown** MBBCh PhD	Queen's University, Belfast	Testing for an excitatory role of Ca^{2+} sparks in arteriolar myogenic tone and pressure autoregulation of blood flow. *3 years*	£182,289
PG/11/122/29310	**Prof S Sharma** BSc MBBS MD FRCP FESC	St George's, University of London	Repolarisation abnormalities in black athletes – markers for pathology or innocent bystanders? *2 years*	£124,061
PG/11/42/28895	**Prof P H Whincup** MB MSc PhD	St George's, University of London	Improving the accuracy of body fat estimation with bioelectrical impedance in UK South Asian, black Afro-Caribbean and white European children. *1 year*	£75,794
PG/11/63/29011	**Dr E J Brunner** BSc MSc PhD FFPH	University College London	Longitudinal assessment of aortic stiffness in the Whitehall II study. *1 year, 4 months*	£126,397
PG/12/20/29469	**Dr B Khoo** MA MB BChir PhD MRCP	University College London	Effective treatment of familial hypercholesterolaemia by SMaRT (spliceosome-mediated RNA trans-splicing) correction of defective LDL receptors. *1 year, 6 months*	£108,768
PG/11/88/28992	**Prof R J MacAllister** MA MD FRCP	University College London	Clinical evaluation of a novel combination therapy for pulmonary hypertension. *2 years*	£66,712
PG/11/32/28728	**Prof W J McKenna** MD DSC FRCP	University College London	Identification and familial evaluation of novel genetic determinants in arrhythmogenic right ventricular cardiomyopathy (ARVC) by next generation sequencing. *1 year*	£200,116
PG/11/98/29201	**Dr V Muthurangu** BSc MB ChB MRCPCH MD	University College London	Towards better assessment of myocardial ischaemia in children using magnetic resonance imaging. *1 year*	£58,215
PG/11/92/29126	**Dr M Ponticos** PhD	University College London	Role of connective tissue growth factor in atherosclerosis. *2 years, 6 months*	£195,954
PG/11/61/29008	**Dr C Ruhrberg** PhD	University College London	NRP1 signalling in vascular permeability. *2 years*	£96,484
PG/11/62/29010	**Dr P Turowski** PhD	University College London	Distinct luminal and abluminal VEGF signalling regulates endothelial function. *2 years*	£120,339
PG/11/52/28989	**Prof G D Holman** BSc PhD	University of Bath	Role of TBC1D1 in heart cell insulin resistance. *2 years*	£122,451
PG/12/17/29448	**Dr M Sahinkaya** BSc MSc PhD	University of Bath	Design and preclinical feasibility assessment of an active Fontan assist device. *2 years*	£121,879
PG/11/41/28893	**Dr J P Fisher** BSc PhD	University of Birmingham	Is altered respiratory-sympathetic coupling a pathogenic feature of human hypertension? *2 years*	£164,486
PG/11/114/29282	**Dr N Kalia** BSc PhD	University of Birmingham	Enhancing the recruitment of haematopoietic and mesenchymal stem cells to different vascular sites – therapeutic implications. *3 years*	£206,974

PG/12/22/29485	**Dr M Madhani** BSc PhD	University of Birmingham	Investigation of the physiological role of natriuretic peptides on platelet function. *1 year, 5 months*	£81,878
PG/12/7/29365	**Prof E R Maher** MD FRCP	University of Birmingham	Identification of novel inherited phaeochromocytoma genes. *2 years*	£147,671
PG/11/49/28983	**Prof G E Rainger** BSc PhD	University of Birmingham	The role of Src-family kinases in regulating transforming growth factor-β1 driven platelet and monocyte recruitment to endothelial cells. *3 years*	£216,385
PG/11/108/29237	**Dr Y A Senis** PhD	University of Birmingham	Regulation of Src-family kinases in platelets by the kinase-phosphatase pair Csk-CD148. *3 years*	£231,404
PG/11/119/29299	**Prof S P Watson** BSc PhD FMedSci	University of Birmingham	The regulation of lymphatic development by CLEC-2 in platelets. *3 years*	£195,786
PG/11/67/29067	**Prof D O Bates** BSc PhD	University of Bristol	Molecular control of arteriolargenesis in peripheral ischaemia. *3 years*	£193,178
PG/11/78/29113	**Dr M Bond** BSc PhD	University of Bristol	Novel cAMP-dependent Epac-signalling pathways controlling VSMC proliferation. *3 years*	£209,807
PG/11/83/29145	**Prof C Emanueli** PhD	University of Bristol	Role of interleukin-33 (IL-33) and its ST2 receptor in post-ischaemic vascular repair. *2 years*	£226,641
PG/11/33/28794	**Dr A Fraser** BA MA MPH PhD	University of Bristol	Modifiable early-life determinants of adolescent NADFLD and its association with metabolic and vascular traits. *2 years*	£130,493
PG/11/77/29110	**Prof S J George** BSc PhD	University of Bristol	Involvement of Wnt-induced secreted protein-1 (WISP-1/CCN4) in atherosclerosis. *3 years*	£151,146
PG/11/97/29193	**Prof J C Hancox** BSc PhD FSB	University of Bristol	Mouse atrioventricular node single cell electrophysiology: a pilot and development project. *2 years*	£128,256
PG/11/51/28986	**Dr R P Jago** BSc PhD	University of Bristol	PROACTIV: PaRental influences On physical ACTIVity and screen-viewing in young children. *2 years, 8 months*	£237,731
PG/12/13/29434	**Prof P Martin** BSc PhD	University of Bristol	To investigate inflammation in heart repair using zebrafish as the model. *2 years*	£170,884
PG/11/68/29074	**Prof H Mellor** BSc PhD	University of Bristol	The role of VEGF receptor dimerisation in angiogenic signalling. *1 year, 6 months*	£105,136
PG/11/95/29173	**Mr G J Murphy** BSc MBChB MD FRCS	University of Bristol	Towards improved blood safety in cardiac surgery: experimental strategies to attenuate red cell transfusion mediated inflammation and organ injury. *2 years*	£297,306
PG/12/23/29475	**Dr A O'Carroll** BA PhD	University of Bristol	The role of the central apelin receptor in the regulation of cardiovascular function. *3 years*	£278,501

PG/11/47/ 28980	**Prof J F R Paton** BSc PhD	University of Bristol	Mechanistic insight into chronic arterial pressure set-point regulation through activation of the ventrolateral periaqueductal grey (vlPAG). *3 years*	£185,504
PG/12/25/ 29488	**Prof A W Poole** MA PhD VetMB	University of Bristol	Role of the two-pore channel TPCN1 in regulating platelet calcium signalling, function and thrombosis. *2 years*	£153,189
PG/11/79/ 29125	**Prof M S Suleiman** PhD DSc	University of Bristol	The cardioprotective efficacy of consecutive PKA and PKC activation in the diseased heart. *3 years*	£236,038
PG/11/44/ 28972	**Dr S J White** BSc DPhil	University of Bristol	Mechanisms and consequences of shear regulation of MMP-10 and MMP-14 in endothelial cells. *3 years*	£197,505
PG/11/57/ 29003	**Prof M R Bennett** BSc MA MBChB PhD FRCP FAHA FMedSci	University of Cambridge	DNA damage in unstable atherosclerosis. *3 years*	£159,160
PG/11/112/ 29272	**Prof M R Bennett** BSc MA MBChB PhD FRCP FAHA FMedSci	University of Cambridge	Survival signalling through Akt and FoxO in vascular disease. *3 years*	£249,100
PG/11/74/ 29100	**Prof J H Gillard** MBBS MD FFRRCSI FRCR	University of Cambridge	Towards a biomechanics-based vulnerability assessment tool for carotid atherosclerotic plaque: mechanical property testing and MRI-based computational modelling. *3 years*	£193,818
PG/11/91/ 29117	**Dr J A Huntington** BSc PhD	University of Cambridge	NMR and crystallographic studies on the formation and function of the intrinsic tenase complex. *3 years*	£164,000
PG/11/107/ 29236	**Prof Z Mallat** MD PhD	University of Cambridge	Roles of B2 and B10 cells in atherosclerosis. *3 years*	£287,878
PG/11/35/ 28879	**Dr C M McEniery** BHMS PhD	University of Cambridge	The influence of ambulatory central pressure in determining cardiovascular risk. *3 years*	£171,224
PG/12/6/ 29366	**Dr W Fuller** BA MA PhD	University of Dundee	Regulation of the cardiac sodium pump by palmitoylation. *1 year*	£81,726
PG/11/106/ 29235	**Prof A J Jovanovic** MD PhD	University of Dundee	Regulation of subsarcolemmal ATP by sarcolemmal K_{ATP} channels: is it important for cardioprotection? *3 years*	£159,680
PG/12/3/ 29344	**Dr C Sutherland** BSc PhD	University of Dundee	Identification and validation of the GSK3 targets in the heart. *3 years*	£211,449
PG/11/118/ 29292	**Dr A E Munsterberg** PhD	University of East Anglia	Investigating signals and mechanisms that govern cardiac progenitor cell migration. *3 years*	£189,497
PG/12/8/ 29371	**Prof D E Newby** BSc PhD BM DM DSc FRSE FMedSci FESC FACC	University of Edinburgh	Role of 18_F-fluoride imaging as a novel marker of plaque instability. *2 years*	£251,525

PG/11/72/29334	**Dr L B Smith** BSc PhD	University of Edinburgh	Cell-specific action of androgen receptor in cardiovascular function, response and repair. *3 years*	£298,051
PG/12/19/29455	**Prof A H Baker** BSc PhD	University of Glasgow	Adenovirus serotype 49: a novel vector for vascular gene therapy. *3 years*	£177,387
PG/11/55/28999	**Prof C Berry** MB ChB MRCP PhD	University of Glasgow	Fractional flow reserve versus angiographically guided management to optimise outcomes in unstable coronary syndromes: a developmental clinical study. *2 years, 6 months*	£223,194
PG/11/82/29136	**Dr D Graham** BSc PhD	University of Glasgow	The mitochondria-targeted antioxidant MITOQ10: a novel therapeutic agent for cardiovascular disease. *1 year*	£59,721
PG/11/43/28901	**Dr S A Nicklin** BSc PhD PGCert	University of Glasgow	Angiotensin 1-9 and angiotensin 1-7: assessment of their mechanisms of action as counter-regulatory renin angiotensin system peptides in cardiovascular disease. *3 years*	£209,038
PG/12/1/29276	**Dr T M Palmer** BSc PhD	University of Glasgow	Inhibition of vascular STAT signalling by AMP-activated protein kinase (AMPK). *3 years*	£206,689
PG/11/113/29280	**Prof A J Peacock** MPhil MD FRCP	University of Glasgow	Acute pulmonary haemodynamic effects of apelin in pulmonary hypertension. *2 years*	£201,508
PG/11/37/28884	**Prof K Naseem** BSc PhD	University of Hull	The role of CD36 in regulating platelet sensitivity to the cAMP signalling cascade. *3 years*	£185,901
PG/11/71/29091	**Prof G E Morris** BA DPhil	University of Keele	Nesprin isoforms and variants: their functions and roles in the pathogenesis of inherited cardiomyopathy. *3 years*	£193,450
PG/11/96/29174	**Prof P J Grant** MD FRCP	University of Leeds	The role of FXIII/Fibrinogen αC interactions in clot stabilisation and fibrinolysis. *3 years*	£167,642
PG/11/126/29321	**Dr J P Greenwood** MB ChB	University of Leeds	Cardiovascular MR evaluation of the safety and efficacy of transcatheter aortic valve implantation (TAVI) compared to surgical aortic valve replacement (AVR). *2 years*	£233,754
PG/11/89/29085	**Prof M T Kearney** MB ChB MRCP DM	University of Leeds	The insulin-like growth factor-1 receptor: a novel therapeutic target to reverse insulin resistance related endothelial cell dysfunction. *3 years*	£231,110
PG/11/84/29146	**Prof C S Peers** BSc PhD	University of Leeds	Modulation of T-type Ca^{2+} channels by hydrogen sulphide: a novel pathway for regulation of vascular smooth muscle proliferation. *3 years*	£197,609
PG/11/80/29135	**Dr N A Turner** BSc PhD	University of Leeds	Modulation of myocardial remodelling by fibroblast-selective inhibition of Interleukin-1 signalling. *3 years*	£241,642

PG/11/110/29248	**Dr N A Turner** BSc PhD	University of Leeds	Modulation of myocardial remodelling by fibroblast-selective inhibition of p38-alpha signalling. *3 years*	£218,278
PG/12/4/29345	**Mr E Choke** MBBS MRCS PhD	University of Leicester	The *in vivo* effects of antiangiogenic treatment on abdominal aortic aneurysms. *2 years*	£131,854
PG/11/64/28772	**Prof R J Evans** BSc DPhil	University of Leicester	Investigation of ligand-sensitive conformational changes in cardiovascular P2X receptors with voltage-clamp fluorometry. *3 years*	£175,476
PG/11/56/29001	**Prof M P Mahaut-Smith** BSc PhD MA	University of Leicester	The role of K^+ channels in platelet activation. *3 years*	£191,872
PG/11/38/28886	**Dr J S Mitcheson** PhD	University of Leicester	Conformational changes to the drug binding site hERG potassium channels: the role of inactivation gating. *3 years*	£179,022
PG/12/9/29376	**Dr M Tomaszewski** MD FAHA	University of Leicester	Genetic mechanisms of coronary artery disease in men – next generation sequencing of the male-specific region of the Y chromosome. *3 years*	£240,405
PG/11/60/29007	**Dr J Willets** PhD BSc	University of Leicester	Investigating the causes and consequences of G-protein-coupled receptor kinase (GRK) and arrestin up-regulation in vascular smooth muscle in hypertension. *3 years*	£223,707
PG/12/14/29438	**Prof D A Middleton** DPhil BSc	University of Liverpool	Modulating the SERCA-phospholamban interaction as a potential therapy for heart failure. *1 year*	£80,500
PG/11/105/29229	**Prof S C Wray** BSc PhD	University of Liverpool	An integrated study of the changes in calcium and function in the aorta during the progression of atherosclerotic disease. *3 years*	£188,104
PG/11/59/29006	**Dr M Lei** MBChB MM DPhil MD	University of Manchester	Regulation of cardiac automaticity and conduction in murine hearts with a cardiac-specific deletion of P21 activated kinase-1. *3 years*	£206,150
PG/12/21/29473	**Dr M Lei** MBChB MM DPhil MD	University of Manchester	Age-related atrial remodelling and arrhythmogenesis in mice with atrial myocyte specific genetic deficiency of MKK4. *2 years*	£187,730
PG/12/31/29527	**Dr T Wang** MB PhD	University of Manchester	Using patient-specific induced pluripotent stem cells to investigate the molecular mechanism of CADASIL. *3 years*	£189,216
PG/11/76/29108	**Prof D J Henderson** BSc PhD	University of Newcastle	Vangl2 as a regulator of second heart field movements into the heart. *3 years*	£264,796
PG/11/117/29290	**Prof I Spyridopoulos** MD	University of Newcastle	Role of CCR7 and its chemokine ligands during myocardial ischaemia/reperfusion injury in patients following primary coronary angioplasty. *2 years*	£105,520

PG/11/45/28975	**Dr V Ralevic** BSc PhD	University of Nottingham	A novel mechanism of coronary hypoxic vasodilatation involving hydrogen sulphide. *3 years*	£150,718
PG/12/32/29544	**Dr R J Clarke** MD MRCP	University of Oxford	Does vitamin D supplementation improve markers of inflammation, innate immunity and arterial stiffness? *2 years*	£112,140
PG/11/120/29302	**Prof P Jezzard** PhD	University of Oxford	Development of improved vessel wall and vessel lumen characterisation using magnetic resonance imaging. *2 years*	£134,638
PG/11/46/28979	**Dr C Monaco** MD PhD	University of Oxford	Investigating B regulatory cells in atherosclerosis. *3 years*	£192,686
PG/11/121/29308	**Dr C J Pears** BA PhD	University of Oxford	Protein ubiquitination in human platelet responses. *1 year*	£48,468
PG/12/33/29546	**Prof C Schofield** BSc DPhil	University of Oxford	HIF hydroxylase inhibitors for the treatment of cardiovascular disease. *2 years*	£224,514
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PG/11/93/29143	**Dr A J McNeish** BSc PhD	University of Reading	Role of thromboxane receptors and Rho-mediated signalling in regulation of endothelial cell calcium activated potassium channels and endothelium-dependent hyperpolarisation. *3 years*	£179,376
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We are 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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Heart Helpline
0300 330 3311
bhf.org.uk

Information & support on anything heart-related
Phone lines open 9am to 5pm Monday to Friday
Similar cost to 01 or 02 numbers

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