British Heart Foundation

Research Grant Awards 2012/2013

FIGHT FOR EVERY HEARTBEAT

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Introduction

Coronary heart disease is the UK's single biggest killer. For over 50 years we've pioneered research that's transformed the lives of people living with heart and circulatory conditions. Our work has been central to the discoveries of vital treatments that are changing the fight against heart disease. It is only because of the generous donations of our supporters that we can continue this work. In this report we detail the research we've funded over the last year which could save thousands of lives in the future.

In the year April 2012 to March 2013 the British Heart Foundation (BHF) awarded grants totalling £90.7 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 2012-2013 the Chairs and Programme Grants Committee agreed £30.8 million for Programme Grants and other major projects such as Special Projects and Infrastructure Grants. There were 32 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, future plans and proposed expenditure. The visiting team includes internationally renowned scientists. Three new Personal Chairs were awarded, totalling £3.1 million, to: Professor B Casadei, University of Oxford; Professor R Touyz, University of Glasgow; and Professor M Kearney, University of Leeds. In addition Professor B Keavney was awarded a Personal Chair at University of Manchester having resigned his Chair at Newcastle University. The Fellowships Committee awarded 87 applications for personal awards to the value of £26 million and the Project Grants Committee awarded 82 applications to the value of £15.9 million.

Three Regenerative Medicine Centre awards were made to universities across the UK. The awards were made following rigorous international peer review and provide up to £2.5 million each over four years.

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 W 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 Glasgow

The Chair of Cardiovascular Medicine
Held by: **Professor R M Touyz** BSc MBBCh MSc PhD

Major interest: Vascular mechanisms of hypertension, patricularly the role of reactive oxygen species.

University of Leeds

The Chair of Cardiovascular and Diabetes Research
Held by: **Professor M T Kearney** MB ChB MRCP DM

Major interest: Mechanisms by which insulin resistance and diabetes exacerbate atherosclerosis.

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.

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.

Newcastle University

The Chair of Cardiology
Held by: **Professor B D Keavney** BSc BM BCh MRCP DM FRCP
Resigned March 2012 (transferred to University of Manchester)

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 interests: Developmental biology of the heart; cardiovascular drug target discovery.

University of Oxford

The Chair of Cardiovascular Medicine
Held by: **Professor B Casadei** MD DPhil FRCP FESC FMedSci

Major interest: Redox signalling in cardiovascular disease, patricularly atrial fibrillation.

University of Oxford

The Chair of Medicine and Epidemiology
Held by: **Professor Sir R 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 interest: 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

Personal Chairs

CH/12/3/29609	**Prof B Casadei** MD DPhil FRCP FESC FMedSci	University of Oxford	The BHF Chair of Cardiovascular Medicine. *10 years*	£899,314
CH/13/1/30086	**Prof M T Kearney** MB ChB MRCP DM	University of Leeds	The BHF Chair of Cardiovascular and Diabetes Research. *10 years*	£999,715
CH/13/2/30154	**Prof B D Keavney** BSc BM BCh MRCP DM FRCP	University of Manchester	The BHF Chair of Cardiovascular Medicine. *10 years*	£329,801
CH/12/4/29762	**Prof R M Touyz** BSc MBBCh MSc PhD	University of Glasgow	The BHF Chair of Cardiovascular Medicine. *10 years*	£1,233,491

Fellowships

Non-clinical Fellowships

Senior Basic Science Research Fellowships

FS/12/17/29532	**Prof P Kohl** MD PhD FHRS	Imperial College London	Mechanical modulation of cardiac structure-functions relations in the nano-to-micro domain. *5 years*	£662,963
FS/13/2/29892	**Prof M Mayr** MD PhD	King's College London	Proteomics to explore mechanistic links between circulating MiRNAs and response to vascular injury. *5 years*	£1,069,500
FS/13/1/29894	**Dr Y A Senis** PhD	University of Birmingham	Regulation of platelet activation and thrombosis by the G6b-B-Shp1/2 signalling complex. *5 years*	£750,452
FS/13/3/30038	**Dr C H Clarke** PhD BSc	University of Cambridge	The role of IL-1R2 in controlling IL-1 driven inflammation in atherosclerosis. *5 years*	£814,539
FS/12/57/29717	**Prof A W Trafford** BVSc CertVA PhD MRCVS	University of Manchester	Dysfunctional β-adrenergic signalling in heart failure: impact on cellular calcium homeostasis and role as a therapeutic target. *5 years*	£1,123,544
FS/13/4/30045	**Dr N Smart** BSc PhD	University of Oxford	The BHF Ian Fleming Senior Basic Science Research Fellowship. Augmenting epicardial-based regeneration and vascular protection via thymosin β4 and LRP1. *5 years*	£841,343
FS/12/36/29588	**Prof J R Potts** BSc PhD	University of York	Structure, function and inhibition of proteins involved in biofilm formation on cardiac devices. *5 years*	£664,192

Intermediate Basic Science Research Fellowships

FS/12/60/29874	**Dr J K H Ahnstrom** BSc MSc PhD	Imperial College London	The role of factor Va in its own proteolysis by APC and its cofactor protein S. *4 years*	£481,390
FS/12/41/29724	**Dr A F Fornili** PhD	King's College London	Nanomechanics of heart disease: investigating the effects of phosphorylation and HCM-causing mutations at the head-tail junction in cardiac myosin. *4 years*	£404,788
FS/12/59/29756	**Dr C Harmer** BSc PhD	Queen Mary, University of London	Determining the molecular mechanisms that underlie defective ion channel trafficking in the long-QT syndrome. *4 years*	£252,115
FS/12/38/29640	**Dr C Mauro** BSc MSc PhD	Queen Mary, University of London	Investigating the metabolic control of T cell migration: implications for immune inflammation in physiology and cardiovascular metabolic disease. *4 years*	£583,828
FS/13/5/29927	**Dr N M Marina-Gonzalez** MD MSc PhD	University College London	Peripheral and central adipokine sensors and their role in the development of obesity-related hypertension. *3 years*	£330,983
FS/13/6/29977	**Dr A J P S Smith** BSc PhD	University College London	Characterisation of allele-specific regulatory elements and identification of causal non-coding SNPs related to coronary heart disease (CHD) and CHD risk traits. *4 years*	£394,428
FS/12/37/29516	**Dr A S Bernado** PhD	University of Cambridge	Molecular determinants underpinning development of human pluripotent stem cells into cardiomyocytes. *4 years*	£396,013
FS/12/39/29653	**Dr M L Ormiston** BScE MASc PhD	University of Cambridge	Elucidating the role of natural killer cells in the regulation of pathological pulmonary vascular remodelling. *4 years*	£409,434
FS/12/58/29709	**Dr K W Wijndaele** BSc MSc PhD	University of Cambridge	Cardiovascular risks of prolonged sitting. *4 years*	£234,620
FS/13/7/30054	**Dr N Macquaide** BSc PhD	University of Glasgow	Structural and functional characterisation of ryanodine receptor clusters in rabbit ventricular myocytes after pathological hypertrophic remodelling. *4 years*	£636,794
FS/12/62/29889	**Dr P Welsh** BSc Hons PhD PgDip	University of Glasgow	Cardiac biomarkers, CVD risk assessment, and cost-effectiveness. *3 years*	£242,048
FS/12/61/29877	**Dr J Madine** BSc PhD	University of Liverpool	Understanding amyloid deposition in the cardiovascular system. *4 years*	£417,790
FS/12/40/29712	**Dr K Gehmlich** PhD	University of Oxford	The contribution of stretch-signalling pathways to the pathogenesis of hypertrophic cardiomyopathy. *4 years*	£499,328
FS/12/63/29895	**Dr S Lakhal Littleton** BSc DPhil	University of Oxford	The roles of cardiac hepcidin and ferroportin in iron homeostasis in the heart. *4 years*	£298,355

4-year PhD Studentships

FS/12/67/30004	**Prof M Avkiran** BSc PhD DSc	King's College London	4th intake 2012 – 4-year PhD Studentship Scheme: Ms Jessica Stuart; Mr Daniel Richards; Ms Alexandra Santu; Ms Kathryn Wolhuter. *4 years*	£581,272
FS/12/70/30009	**Prof P J Scambler** BSc MB ChB MD FRCPath	University College London	4th intake 2012 – 4-year PhD Studentship Scheme: Ms Athina Dritsoula; Ms Ruth Hackett; Ms Vanessa Lowe; Mr Jack Pickard. *4 years*	£585,372
FS/12/64/30001	**Prof M R Bennett** BSc MA MBChB PhD FRCP FAHA FmedSci	University of Cambridge	4th intake 2012 – 4-year PhD Studentship Scheme: Ms Amanda Dalby; Ms Salema Jafri; Ms Amanda Kennedy; Ms Elena Loche. *4 years*	£581,348
FS/12/65/30002	**Dr M A Bailey** BScPhD	University of Edinburgh	4th intake 2012 – 4-year PhD Studentship Scheme: Mr Raphael Castellan; Mr Matthew Gibbins; Ms Clare McFadden; Ms Nicole Sime. *4 years*	£541,112
FS/12/66/30003	**Prof A F Dominiczak** MD FRCP FAHA FRSE FmedSci	University of Glasgow	4th intake 2012 – 4-year PhD Studentship Scheme: Ms Margaret Ballantyne; Ms Marie Indahl; Ms Lisa McArthur; Ms Heather Small. *4 years*	£538,912
FS/12/68/30006	**Dr C E Austin** BSc PhD	University of Manchester	4th intake 2012 – 4-year PhD Studentship Scheme: Ms Adriana Guillermo Wiesinger; Ms Lucy Murfitt; Ms Karen Onions; Ms Rachel Walker. *4 years*	£538,436
FS/12/69/30008	**Prof D R Greaves** BSc PhD	University of Oxford	4th intake 2012 – 4-year PhD Studentship Scheme: Ms Lucia Giles; Mr Alastair Kerr; Ms Sophie Norman; Mr Lewis Taylor. *4 years*	£562,012

3-year PhD Studentships

FS/12/47/29703	**Ms K Burch** BSc	Belfast, Queen's University	Investigation of novel actions of the gastrointestinal peptide obestatin on hyperglycaemia and vascular dysfunction in experimental diabetes. *3 years*	£102,586
FS/12/46/29685	**Miss S K Joyce** BSc	Cardiff University	Investigating the mechanisms of Nodal and FGF signalling in cardiac specification. *3 years*	£101,582
FS/12/76/29859	**Ms V Martello** Bsc	Imperial College London	Muscle LIM protein, aberrant splicing and heart failure. *3 years*	£97,669
FS/12/24/29568	**Ms M Papadaki** BSc MRes	Imperial College London	The importance of uncoupling of Troponin I phosphorylation from changes in myofibrillar Ca^{2+}-sensitivity in the pathogenesis of cardiomyopathy. *3 years*	£110,008
FS/12/48/29719	**Miss F Musa** BMedSc MSc	Keele University	Development of a human 3D tissue-engineered blood vessel model for the study of haemostasis. *3 years*	£103,266

FS/12/43/29608	**Mr C Mackay** BSc MRes	King's College London	Src is a key mediator of multiple oxidant signalling pathways in vascular smooth muscle. *3 years*	£109,723
FS/12/23/29511	**Miss K Best** BSc MSc	Newcastle University	Survival and predictors of survival in children brn with congenital heart defects. *3 years*	£101,681
FS/12/25/29569	**Ms T Ozkan** BSc	Queen Mary, University of London	Defining the individual contributors of isoform-specific COPII-coat proteins in atherogenic lipoprotein production and secretion. *3 years*	£109,885
FS/12/21/29482	**Miss A Royal** BSc	Queen Mary, University of London	The regulation of trafficking and function of KCNQ1 potassium channels by phosphatidylinositol (4,5) bisphosphate. *3 years*	£108,625
FS/13/10/30021	**Mr H Greenberg** BSc	St George's, University of London	Investigations into calcium-sensing receptor mechanisms in the vasculature. *3 years*	£136,595
FS/13/11/30056	**Miss G M Bosi** BSc MEng	University College London	Engineering assessment of patients for transcatheter aortic valve implantation. *3 years*	£104,777
FS/12/49/29729	**Ms E Gomez-Espinosa** BSc	University College London	Signalling through phospholipase C and D in cardiac hypertrophy: the RdgBbeta-ATRAP connection. *3 years*	£116,225
FS/12/79/29871	**Mr J S Reyat** BSc	University of Birmingham	Tetraspanin regulation of ADAM10: impact on atherosclerosis. *3 years*	£108,740
FS/12/22/29510	**Mr A Battram** BSc	University of Bristol	Investigations into the role of the PI(3,4,5) P_3 binding protein Rasa3 in platelet function and thrombosis. *3 years*	£114,452
FS/13/9/29957	**Miss K Onions** BSc	University of Bristol	The differential modification of glycosaminoglycans by VEGFA and VEGFC and consequential effects on GEnC barrier integrity. *3 years*	£101,277
FS/12/77/29887	**Mr J Teasdale** BSc	University of Bristol	Invesitgation of how cigarette smoke promotes endothelial detachment at elevated shear stress. *1 year, 9 months*	£64,395
FS/12/75/29876	**Ms K Wunsche** BSc	University of Bristol	Modulation of hERG potassium channel function by extracellular acidosis: single channel effects and underlying basis. *3 years*	£100,594
FS/12/74/29778	**Mr C Beck** BSc	University of Cambridge	Antioxidant strategies to prevent programmed cardiovascular dysfunction by isolated developmental hypoxia. *3 years*	£109,970
FS/12/19/29397	**Ms A Bussey** BSc MRes	University of Cambridge	Metabolomic response of human platelets to collagen receptor engagement. *3 years*	£110,142

FS/12/78/29875	**Ms I Hardege** BSc	University of Cambridge	The role of the KCNJ5 potassium channel in aldosterone release. *3 years*	£109,344
FS/12/45/29647	**Miss O Eleftheriadou** BSc	University of Kingston	Regulation of the PP2AC, PP4C, PP6C and alpha4 signalling axis in the myocardium: roles in calcium homeostasis and myocyte hypertrophy. *3 years*	£100,972
FS/12/71/29747	**Ms N J Haywood** BSc	University of Leeds	Modulation of IGF1 receptors as a strategy to enhance vascular endothelial repair. *3 years*	£102,450
FS/12/42/29585	**Ms E Johnson** BSc	University of Leeds	Thioredoxin, T-type Ca^{2+} channels and vascular smooth muscle cell proliferation. *3 years*	£102,540
FS/12/20/29462	**Miss G Smith** BSc	University of Leeds	Mapping the ubiquitination pathway for endotholial VEGFR2 (KDR) turnover in angiogenesis. *3 years*	£102,846
FS/13/8/29974	**Ms E Steer** BSc	University of Leeds	Modulation of ryanodine receptor activity as an antiarrythmic drug mechanism. *3 years*	£103,629
FS/12/44/29619	**Mr M Parnall** BSc	University of Nottingham	Novel roles for embryonic myosin heavy chain in cardiac formation and function. *3 years*	£100,469
FS/12/72/29754	**Miss K F M Milward** BA	University of Oxford	The role of human inducible regulatory T lymphocytes in transplantation tolerance. *3 years*	£113,862
FS/12/73/29772	**Mr J Green** BSc	University of Sheffield	The endothelial P2X4/7 receptor axis is dynamically regulated under shear stress at arterial sites prone to atherosclerosis. *3 years*	£102,848

Travel Fellowships

FS/12/18/29522	**Dr M J White** BSc PhD	University of Birmingham	The effects of biventricular pacing on muscle mechanoreflex sensitivity in chronic heart failure patients. *1 year*	£5,902

Clinical Fellowships

Senior Clinical Research Fellowships

FS/13/12/30037	**Dr J J B Boyle** MBChB BSc PhD FRCPath	Imperial College London	Molecular mechanisms and therapeutic potential of Activating Transcription Factor-1 (ATF-1) in gene regulation in atheroprotective M-hem plaque macrophages. *5 years*	£1,167,752

Intermediate Clinical Research Fellowships

FS/12/80/29821	**Dr R M Cubbon** MBChB MRCP PhD	University of Leeds	Does cellular insulin signalling modulate endogenous vascular repair and endothelial progenitor cell function via interaction with VEGF signalling? *5 years*	£723,221
FS/12/81/29882	**Dr S Greenstein** BSc MBChB MRCP PhD	University of Manchester	The role of perivascular adipose tissue in the regulation of vascular tone in health and human obesity. *4 years*	£719,784

Clinical Research Training Fellowships

FS/13/13/29819	**Dr G Rae** MBChB MA MRCP	Imperial College London	Titin resequencing and genetic discovery in human heart failure. *3 years*	£229,332
FS/13/15/30026	**Dr M Lumley** MBBS BSc MRCP FHEA	King's College London	Cardiovascular and coronary physiology during exercise in patients with aortic stenosis. *2 years*	£139,204
FS/12/31/29533	**Dr S Boag** MBChC BMedSci	Newcastle University	Effect of cytotoxic T-lymphocytes in mediating myocardial ischaemia/reperfusion injury following primary PCI: role of cytomegalovirus seropositivty. *3 years*	£188,594
FS/12/55/29695	**Dr R Martin** BA BMBCh MRCP	Newcastle University	Identifying causative genes for atrial fibrillation in GWAS-associated regions using allelic expression imbalance. *1 year, 6 months*	£124,607
FS/12/53/29643	**Dr R Knowles** BSc MBChB	Queen Mary, University of London	Interactions between aspirin and new generation $P2Y_{12}$ receptor antagonists. *3 years*	£233,405
FS/12/82/29736	**Dr F L Ng** BSc MBBS MRCP	Queen Mary, University of London	SLC4A7 and the electroneutral sodium-bicarbonate cotransporter NBCn1: characterisation of a candidate gene in hypertension. *3 years*	£220,842
FS/12/35/29566	**Ms C Baker** BSc MBBS	University College London	Developing patient-specific modelling to guide surgical palliation of single ventricle physiology. *2 years, 2 months*	£120,286
FS/12/56/29723	**Dr M Fontana** MD	University College London	The quantification of cardiac TTR amyloid: a diagnostic tool for better patient care. *3 years*	£174,652
FS/12/86/29841	**Dr O Guttmann** MA MBBS MRCP MRCP	University College London	Management of atrial fibrillation in patients with hypertrophic cardiomyopathy. *2 years*	£119,315
FS/12/29/29463	**Dr F Joshi** MBBS MRCP	University of Cambridge	Multi-modality imaging of atherosclerosis to determine the relationships between inflammation, hypoxia and calcification: the CAFE and CHAI Studies. *2 years*	£216,918
FS/12/87/29899	**Mr M S Qureshi** MBBS MRCS	University of Cambridge	Germinal centre autoantibody responses following heart transplantation. *3 years*	£230,727

FS/12/33/29561	**Dr V Selvarajah** MBChB MRCP	University of Cambridge	Mechanisms for salt-sensitive hypertension in humans: the effects of salt loading on skin sodium, VEGF C, blood pressure and arterial stiffness. *3 years*	£203,559
FS/12/27/29405	**Dr M Fenech** MD MRCP	University of East Anglia	Elucidating the role of adipocyte-expressed metalloproteinases and their inhibitors in linking obesity to cardiovascular risk. *3 years*	£176,795
FS/12/83/29781	**Dr S Alam** MBChB MRCP BSE	University of Edinburgh	Assessment of cellular inflammation following acute myocardial infarction: application of ultrasmall superparamagnetic particles of iron oxide. *1 year, 9 months*	£213,583
FS/12/84/29814	**Dr W Jenkins** MRCP MBChB BSc	University of Edinburgh	Identification of *in vivo* angiogenesis and fibrosis in cardiovascular disease using positron emission tomography. *1 year, 9 months*	£240,310
FS/12/28/29417	**Dr K Stevens** BSc MBChB MRCP	University of Glasgow	Serum phosphate as a cardiovascular risk factor: effects on vascular and endothelial function. *1 year, 9 months*	£107,753
FS/12/51/29584	**Dr N Ali** MBBS BMedSci MRCP	University of Leeds	Examining the effect of NADPH oxidase inhibition on endothelial regeneration in an *in vivo* model of whole body insulin resistance. *3 years*	£161,664
FS/12/54/29671	**Mr M Bailey** MB ChB BSc MRCS	University of Leeds	Investigation of novel calcium channels in abdominal aortic aneurysm (AAA). *3 years*	£183,742
FS/12/26/29395	**Ms K Bridge** MBChB MRCS	University of Leeds	Regulation of abdominal aortic aneurysm by thrombin-activatable fibrinolysis inhibitor. *3 years*	£194,422
FS/12/88/29901	**Dr P Swoboda** MA MBBS MRCP	University of Leeds	Mechanisms and reversibility of heart failure associated with diabetes: a cardiac magnetic resonance study. *3 years*	£211,874
FS/12/30/29474	**Dr S Bhandari** MBBChir MD	University of Leicester	The impact of ethnicity on the high density lipoprotein (HDL) proteome in coronary artery disease. *3 years*	£166,631
FS/12/52/29629	**Dr S Chin** MA MBBChir MRCP	University of Leicester	Autonomic modulation of ventricular arrhythmias in heart failure. *3 years*	£204,593
FS/12/50/29558	**Dr V J Gokani** BMedSci MB BS MSc MRCS	University of Leicester	The Effect of Surgery on Central Aortic Pressure and HaEmodynamics (ESCAPE) study. *3 years*	£155,462
FS/13/14/29915	**Dr M Ainslie** MBChB BSc MRCP PGCE	University of Manchester	MAPS (Multiparametric CMR for the Assessment of apical versus septal Pacing Study): a randomised crossover design RV multi-site pacing study. *3 years*	£91,163
FS/12/34/29565	**Dr C Pearman** MSc MBChB	University of Manchester	Why is ageing a risk factor for atrial fibrillation? An experimental study of atrial electrophysiological remodelling in ageing. *3 years*	£230,825

FS/12/32/29559	**Dr R Ariga** BSc MBBS MRCP	University of Oxford	Assessment of myocardial fibre structure in hypertrophic cardiomyopathy with magnetic resonance diffusion tensor imaging. *3 years*	£297,659
FS/12/85/29869	**Dr P Morris** MBChB MRCP BMedSci	University of Sheffield	Optimising a computational model of the physiology of coronary artery disease: time to make it personal. *3 years*	£166,125

Regenerative Medicine Centres

RM/13/1/30157	**Prof S E Harding** BSc PhD	Imperial College London	BHF Centre of Regenerative Medicine funded by our Mending Broken Hearts Appeal. *4 years*	£2,500,000
RM/13/2/30158	**Prof D E Newby** BA BSc PhD BM DM DSc FRSE FMedSci FESC FACC	University of Edinburgh	BHF Centre of Regenerative Medicine funded by our Mending Broken Hearts Appeal. *4 years*	£2,500,000
RM/13/3/30159	**Prof P R Riley** BSc PhD	University of Oxford	BHF Centre of Regenerative Medicine funded by our Mending Broken Hearts Appeal. *4 years*	£2,500,000

Infrastructure Grant

IG/13/1/30087	**Prof R M Touyz** BSc MBBCh MSc PhD	University of Glasgow	Funding towards equipment for the BHF Glasgow Cardiovascular Research Centre. *1 year*	£396,498
IG/13/2/30106	**Prof S Neubauer** MD FRCP FACC FMedSci	University of Oxford	Funding towards building works to extend the University of Oxford Centre for Clinical Magnetic Resonance Research. *1 year*	£500,000

Special Project Grants

SP/13/2/30111	**Prof P Elliott** MBBS PhD FRCP FFPHM FMedSci	Imperial College London	Large-scale, comprehensive genotyping of UK Biobank for cardiometabolic traits and diseases: UK CardioMetabolic Consortium (UKCMC). *2 years*	£1,000,000
SP/12/4/29573	**Prof P J C Chowienczyk** BSc MBBS FRCP	King's College London	Evolution of arterial stiffness, pressure wave reflection and the stiff hypertension phenotype in women: a longitudinal study in Twins UK. *4 years*	£368,716
SP/12/5/29574	**Prof M Mayr** MD PhD	King's College London	Circulating microRNAs as novel biomarkers for cardiovascular risk. *3 years*	£588,360
SP/13/1/30245	**Prof P Passmore** BSc MB BCh BAO MRCP MD FRCPI FRCP	Queen's University, Belfast	A randomised controlled trial of calcium channel blockade (CCB) with amlodipine for the teatment of subcortical ischaemic vascular dementia (SIVD). Joint funding with Alzheimer's Society. *4 years*	£1,155,719
SP/12/3/29575	**Prof S P Wood** BSc DPhil	University College London	Targeting C-reactive protein for treatment of myocardial infarction and stroke. *3 years*	£677,715
SP/12/8/29620	**Dr J N Townend** BSc MBChB MD FRCP FESC	University of Birmingham	A randomised open label blinded end point trial to compare the effects of spironolactone to chlortalidone on left ventricular mass and arterial stiffness in stage 3 chronic kidney disease (SPIRO-CKD). *3 years*	£964,216
SP/12/7/29572	**Prof P Madeddu** MD	University of Bristol	Pre-clinical trial with human pericyte progenitors in a large animal model of myocardial infarction. *2 years*	£360,581
SP/12/12/29836	**Prof N W Morrell** MBBS BSc MA MD FRCP FMedSci	University of Cambridge	National Cohort Study of Heritable Pulmonary Arterial Hypertension. *5 years*	£1,178,425
SP/12/10/29922	**Dr N L Mills** MBBS BSc MA MD FRCP FMedSci	University of Edinburgh	High-Sensitive Troponin in the Evaluation of patients with Acute Coronary Syndrome (High-STEACS): a randomised controlled trial. *3 years*	£702,166
SP/12/9/29593	**Prof A H Baker** BSc PhD	University of Glasgow	Development of miR-145 antagonism as a novel therapeutic strategy for application to the treatment of pulmonary arterial hypertension. *3 years*	£442,711
SP/12/11/29786	**Dr H Philippou** BSc PhD	University of Leeds	Characterisation of mechanism(s) for the unprecedented in vivo anticoagulant effects of small molecules with minimal bleeding risk. *2 years*	£713,504
SP/12/6/29751	**Prof Sir R E Collins** MSc MBBS LMSSA FMedSci FRCP	University of Oxford	UK Biobank Biomarkers. *1 year*	£1,000,000

Programme Grants

RG/12/11/29815	**Prof V B O'Donnell** BSc PhD	Cardiff University	Characterisation of novel endogenous lipid mediators of cardiovascular function and disease. *5 years*	£827,144
RG/12/18/30088	**Dr J Gorelik** MSc PhD	Imperial College London	cAMP/cGMP localisation in cardiac myocytes by a new nanoscale multifunctional scanning technique. *5 years*	£668,343
RG/12/12/29872	**Prof P Eaton** BSc PhD	King's College London	Protein kinase G oxidation in the pathogenesis of cardiovascular disease. *5 years*	£886,910
RG/12/15/29935	**Prof D J Henderson** BSc PhD	Newcastle University	Embryonic lineage in development, malformation and disease of the cardiac outflow (renewal). *5 years*	£1,139,671
RG/13/2/30098	**Dr E J Brunner** BSc MSc PhD FFPH	University College London	Vascular risk and functional decline in old age (renewal). *4 years*	£1,108,289
RG/13/5/30112	**Dr R Lovering** BSc PhD	University College London	The integration of biomedical research, describing the biological processes relevant to cardiovascular processes, into Gene Ontology, microRNA and protein interaction databases. *5 years*	£589,739
RG/12/7/29693	**Prof G E Rainger** BSc PhD	University of Birmingham	Do platelets exacerbate the atherogenic process by regulating the recruitment, differentiation and inflammatory function of monocytes?. *5 years*	£758,669
RG/12/10/29802	**Prof C Orchard** BSc PhD	University of Bristol	The role of caveolin-3 in cardiac myocyte structure and function. *5 years*	£874,821
RG/12/6/29670	**Prof J F R Paton** BSc PhD	University of Bristol	Brainstem hypoperfusion as a causative mechanism for neurogenic hypertension (renewal). *5 years*	£980,415
RG/13/4/30107	**Prof N W Morrell** MBBS BSc MA MD FRCP FMedSci	University of Cambridge	Targeting the BMP signalling pathway for the treatment of pulmonary arterial hypertension (renewal). *5 years*	£1,283,492
RG/12/13/29853	**Prof A J Vidal-Puig** MD PhD	University of Cambridge	Adipose tissue macrophage polarisation and lipotoxicity. *5 years*	£933,182
RG/12/14/29885	**Prof M Evans** BSc PhD	University of Edinburgh	Angiotensin II and pulmonary arterial hypertension: calcium-signalling nanodomains provide the locks and the keys to smooth muscle contraction, relaxation and gene expression. *5 years*	£1,008,885
RG/13/7/30099	**Prof R M Touyz** BSc MBBCh MSc PhD	University of Glasgow	Vascular Nox5 and hypertension: molecular mechanisms and therapeutic implications. *5 years*	£1,120,033
RG/13/3/30104	**Dr R A S Ariens** BSc PhD	University of Leeds	Mechanisms of fibrin structure in thrombosis. *5 years*	£1,145,224

RG/12/8/29698	**Prof P J Grant** MD FRCP FMedSci	University of Leeds	The role of Coagulation Factor XIII-A in myocardial tissue repair and cardiac function. *5 years*	£810,180
RG/13/6/29947	**Prof G J Murphy** BSc MBChB MD FRCS	University of Leicester	Prevention of acute kidney injury after cardiac surgery. *3 years*	£793,876
RG/12/17/30078	**Prof T G Robinson** MD MRCP	University of Leicester	Stroke Association/BHF Fourth Joint Programme Grant – Blood pressure variability: definition, natural history, prognosis and treatment following acute stroke. *5 years*	£658,635
RG/12/9/29775	**Prof J Emsley** BSc PhD	University of Nottingham	An investigation of Factor XI and proteins from the contact system (renewal). *5 years*	£852,247
RG/12/5/29576	**Prof K M Channon** MD FRCP FMedSci	University of Oxford	Cell-specific roles for tetrahydrobiopterin in cardiovascular disease pathogenesis (renewal). *5 years*	£1,470,687
RG/12/16/29939	**Prof H C Watkins** MD PhD FRCP FMedSci	University of Oxford	Defining therapeutic targets in hypertrophic cardiomyopathy (renewal). *5 years*	£1,562,307
RG/13/1/30042	**Prof P C Evans** BSc MSc PhD	University of Sheffield	Identification of novel mechanoresponsive signalling networks that control endothelial cell injury and activation. *5 years*	£1,028,243

New Horizons Grants

NH/12/3/29636	**Prof A Sik** PhD	University of Birmingham	High throughput electrocardiogram recording of zebrafish embryos. *3 years*	£295,840

Project Grants

Listed alphabetically by Institute

PG/12/73/29730	**Dr A W Khir** BSc MSc PhD	Brunel University	Evaluation of the haemodynamics of a new intra-aortic balloon: a step towards better counterpulsation. *3 years*	£233,254
PG/12/37/29610	**Prof P J Kemp** BSc DPhil	Cardiff University	Mechanism of regulation by erythropoietin of hypoxic signal transduction. *3 years*	£193,845
PG/12/50/29691	**Dr D P Ramji** BSc PhD	Cardiff University	The role of the extracellular signal-regulated kinase/signal transducer and activator of transcription 1 axis in atherosclerosis. *3 years*	£256,704

PG/13/9/29990	**Prof G D A Angelini** MD MCh FRCS FMedSci	Imperial College London	Low frequency ventilation during cardiopulmonary bypass for lung protection: a randomised controlled trial. *1 year*	£85,555
PG/13/6/29934	**Prof A D Hughes** BSc MBBS PhD	Imperial College London	Non-invasive Pressure-Volume Analysis (NIPVA): extending comprehensive left ventricular pump function assessment to more patients and settings. *1 year*	£107,470
PG/12/55/29740	**Prof D A Lane** BA PhD	Imperial College London	Developing the von Willebrand Factor cleaving protease, ADAMTS13, as a treatment for stroke. *3 years*	£224,951
PG/13/16/30040	**Prof P D Weinberg** MA MSc DIC PhD	Imperial College London	Test of a new 'comfort zone' theory relating mechanical stresses to atherosclerosis. *3 years*	£209,988
PG/12/67/29773	**Dr B J Wojciak Stothard** MSc PhD	Imperial College London	RhoB inhibitors in prevention and treatment of chronic hypoxia-induced pulmonary hypertension. *3 years*	£232,312
PG/12/61/29818	**Dr L Zhao** MD PhD	Imperial College London	Potential role of Zip12 in regulation of hypoxia-induced pulmonary hypertension. *3 years*	£218,949
PG/12/48/29638	**Prof M Avkiran** BSc PhD DSc	King's College London	Role of the type 2A phosphatase regulatory subunit PPP2R5A/B56alpha in beta-adrenergic regulation of cardiac protein phosphorylation and function. *3 years*	£232,148
PG/13/13/30018	**Prof P Eaton** BSc PhD	King's College London	Defining how sulforaphane protects the heart from infarction. *2 years*	£146,393
PG/12/52/29713	**Prof M Irving** MA MSc PhD	King's College London	Myosin regulatory light chain: modulator of cardiac function in health and disease. *3 years*	£272,624
PG/12/36/29444	**Prof G Lord** BA MB BChir MA PhD	King's College London	The role of microRNA 142 in cardiac transplantation. *3 years*	£260,546
PG/13/1/29801	**Prof G E Mann** BSc MSc PhD	King's College London	Therapeutic potential of sulforaphane in gestational diabetes: protection of fetal endothelial cells via activation of the Nrf2-Keap1 redox signalling pathway. *3 years*	£206,291
PG/12/83/29917	**Dr B Modarai** BSc MB BS MRCS PhD FRCS	King's College London	An investigation of cell encapsulation as a strategy for enhancing angiogenic cell therapy in the ischaemic limb. *3 years*	£295,367
PG/13/19/30059	**Dr F Wardle** BA MA PhD	King's College London	Characterising the activity of Mesps in multipotent cardiac progenitor cell fate. *2 years, 6 months*	£288,929
PG/12/70/29777	**Dr E Haycraft** BSc PhD	Loughborough University	Kids FIRST: Development and feasibility of a Family-based Intervention to Reduce Snacking and Screen Time in children. *3 years*	£181,409

PG/12/60/29799	**Dr L Armstrong** BSc PhD	Newcastle University	In vitro modelling of hypoplastic left heart syndrome using induced pluripotent stem cells. *1 year, 6 months*	£125,046
PG/12/47/29681	**Prof I Spyridopoulos** MD	Newcastle University	Canonical and non-canonical roles of telomerase in atherosclerosis. *2 years*	£121,673
PG/12/45/29672	**Dr R A Bass** BSc MSc PhD	Northumbria University	Dissecting the functional domains of the serpin maspin and how they impact on vascular smooth muscle cell behaviour. *2 years*	£105,314
PG/12/68/29779	**Prof T D Warner** BSc PhD	Queen Mary, University of London	Roles of platelet subpopulations in the formation of platelet aggregates with relevance to anti-platelet therapy. *2 years*	£129,609
PG/13/24/30115	**Dr I E Dumitriu** MD PhD	St George's, University of London	Dissecting the contribution of regulatory lymphocytes in human atherosclerosis: exploring new avenues to clinical applications. *3 years*	£191,731
PG/12/63/29824	**Dr I A Greenwood** BSc PhD	St George's, University of London	Physiological impact of Kv7 channels in cAMP-mediated arterial dilatation. *3 years*	£185,878
PG/12/38/29615	**Dr Y Jamshidi** BSc PhD FHEA	St George's, University of London	Influence of low frequency and rare variants on ECG risk traits for cardiac arrhythmias. *2 years*	£101,913
PG/12/77/29857	**Prof M Malik** PhD MD DSc DSc	St George's, University of London	Autonomic influence on ventricular repolarisation in man. *1 year, 6 months*	£41,704
PG/12/71/29684	**Dr J P Casas** MD PhD	University College London	Drug Target Validation Database (DTAdb): a genomics-based informatics resource for drug development in cardiometabolic disease. *2 years*	£127,726
PG/12/66/29843	**Prof S E Moss** PhD	University College London	The role of Lrg1 as a modulator of VEGF signalling in vascular endothelial cells. *3 years*	£227,096
PG/13/10/30000	**Dr I P T Pineda Torra** BSc MSc PhD	University College London	Understanding the role of interferon regulatory factor 8 on the anti-atherogenic actions of LXR. *3 years*	£271,700
PG/12/44/29658	**Prof P J Scambler** BSc MB ChB MD FRCPath	University College London	Role of the CHARGE syndrome-associated chromatin protein CHD7 in cardiac progenitors and development. *2 years, 3 months*	£278,012
PG/12/39/29626	**Dr Y Yamamoto** BSc MSc DSc	University College London	The blind cavefish: a new inroad into heart regeneration research. *3 years*	£291,948
PG/12/65/29840	**Prof I C Zachary** BSc PhD	University College London	Role of neuropilins in arterial neo-intimal thickening, regenerative arteriogenesis and vascular smooth muscle cell signalling. *3 years*	£234,434
PG/13/4/29811	**Prof M P Frenneaux** MB BS FRACP MD FACC FRCP FESC FMedSci	University of Aberdeen	Diastolic ventricular interaction in patients with heart failure with normal ejection fraction. *2 years, 6 months*	£166,083

PG/12/75/29851	**Prof P Hoppler** MSc PhD	University of Aberdeen	Dissecting the context-specific roles of WNT signalling in cardiomyocyte differentiation using lateral-plate-mesoderm-enriched embryonic stem cell culture. *3 years*	£183,797
PG/13/23/30080	**Prof P Hoppler** MSc PhD	University of Aberdeen	Dissecting the gene regulatory network controlled by GATA transcription factors during cardiogenesis in Xenopus and mammalian ES cell model systems. *3 years*	£252,140
PG/12/35/29403	**Dr J N Townend** BSc MBChB MD FRCP FESC	University of Birmingham	Effect of a reduction in renal function on arterial stiffness: a prospective multicentre study of kidney donors. *3 years*	£261,161
PG/12/40/29634	**Prof P Halestrap** MA PhD DSc FedMedSci	University of Bristol	The role of mitochondrial morphology and outer membrane permeability in determining ROS production and permeability transition pore opening during ischaemia / reperfusion of the heart. *3 years*	£286,533
PG/12/69/29784	**Prof J C Hancox** BSc PhD FSB FBPharmacolS	University of Bristol	Stereoselectivity of hERG potassium channel blockade by disopyramide. *2 years*	£119,549
PG/12/79/29884	**Dr I Hers** BSc MSc PhD	University of Bristol	How does PI3 kinase increase platelet function? A molecular proteomic analysis of PI3 kinase signalling. *2 years*	£120,236
PG/13/11/30016	**Dr I Hers** BSc MSc PhD	University of Bristol	Contribution of the PI(3,4,5)P3 binding adaptor protein Bam32 to PI3 kinase-mediated platelet function and arterial thrombosis. *3 years*	£206,302
PG/13/15/30025	**Prof A C Newby** MA PhD	University of Bristol	Epigenetic regulation of matrix metalloproteinases-9 and -12 and tissue inhibitor of metalloproteinases-3 expression during macrophage differentiation and polarisation. *3 years*	£60,258
PG/13/14/30023	**Prof A W Poole** MA PhD VetMB MRCVS	University of Bristol	Role of the small GTPase RhoG in regulating platelet function and thrombosis. *3 years*	£197,338
PG/12/51/29705	**Dr S C Satchell** MRCP BSc PhD	University of Bristol	Coronary endothelial glycocalyx: a potential contributor to diabetic cardiomyopathy. *3 years*	£199,750
PG/13/25/30014	**Prof M R Bennett** BSc MA MBChB PhD FRCP FAHA FMedSci	University of Cambridge	Mechanisms and markers of normal vascular ageing. *3 years*	£231,378
PG/12/86/29930	**Dr H Jorgensen** BSc PhD	University of Cambridge	Epigenetic regulation of smooth muscle cell genes. *2 years*	£163,631
PG/12/42/29655	**Dr T Krieg** MD	University of Cambridge	Protective properties of a mitochondria-targeted S-nitrosothiol against heart failure development post myocardial infarction. *3 years*	£231,115
PG/12/54/29734	**Dr W Li** BSc PhD	University of Cambridge	The molecular basis of BMP9 signalling in the endothelium. *2 years*	£140,003

PG/12/41/29679	**Prof R J Read** BSc PhD	University of Cambridge	Structural understanding of angiotensinogen and the release of angiotensin. *3 years*	£150,952
PG/12/53/29714	**Prof A J Vidal-Puig** MD PhD	University of Cambridge	Activating brown adipose tissue to treat atherosclerosis and cardiovascular disease. *2 years*	£195,031
PG/12/58/29767	**Dr F Khan** BSc PhD	University of Dundee	NFAT and development of vascular disease in diabetes: a study of endothelial dysfunction, inflammatory markers and vascular permeability in mice. *2 years*	£104,955
PG/12/72/29743	**Prof A D Struthers** BSc MD FRCP FESC FRSE FMedSci	University of Dundee	Does allopurinol regress left ventricular hypertrophy in end-stage renal disease? *3 years*	£293,744
PG/13/22/30077	**Dr S J Fountain** BSc PhD	University of East Anglia	Regulation of the proatherogenic activity of CC chemokines by purinergic co-signalling in human monocytes. *3 years*	£202,705
PG/12/74/29745	**Dr M A Jansen P**hD	University of Edinburgh	Assessment of myocardial viability with magnetic resonance imaging techniques. *2 years*	£201,866
PG/12/57/29782	**Prof M J Shipston** BSc PhD	University of Edinburgh	S-acylation and the regulation of vascular smooth muscle BK channels. *3 years*	£262,030
PG/13/26/30128	**Prof D J Webb** MBBS MD DSc FRCP FRSE FMedSci	University of Edinburgh	PAracetamol Treatment in Hypertension: effect on Blood Pressure (PATH-BP) study. *3 years*	£139,908
PG/13/7/29913	**Prof M R MacLean** BSc PhD FBPharmacolS FSB MBE	University of Glasgow	Oestrogen synthesis and metabolism in pulmonary arterial hypertension. *3 years*	£221,961
PG/12/81/29897	**Dr P Maffia** BSc MSc PhD FHEA	University of Glasgow	Defining innate and adaptive immune functions of plasmacytoid dendritic cells in atherosclerosis. *3 years*	£282,107
PG/12/84/29919	**Dr W McBride** BSc PhD	University of Glasgow	Investigation of osteopontin as a candidate gene for left ventricular hypertrophy. *3 years*	£214,705
PG/13/17/30050	**Prof J V McMurray** BSc MB ChB MD FRCP FESC FACC FAHA FRSE	University of Glasgow	Palliative care needs in patients with heart failure. *3 years*	£249,339
PG/12/85/29925	**Dr S Padmanabhan** MBBS MD PhD	University of Glasgow	Genetic, molecular and functional dissection of a novel pathway for hypertension: uromodulin, renal function, sodium homeostasis and blood pressure. *3 years*	£263,933
PG/12/49/29441	**Prof K M Naseem** BSc PhD	University of Hull	Thrombospondin-1 modulates haemostasis and thrombosis through regulation of the cAMP signalling pathway. *3 years*	£195,005

PG/12/88/29951	**Dr S C Calaghan** BSc PhD	University of Leeds	Determination of the mechanism for statin-induced myopathy: the cause and consequences of increased sarcoplasmic reticulum calcium leak. *3 years*	£208,005
PG/12/56/29748	**Dr S B Wheatcroft** BSc MBChB PhD FRCP	University of Leeds	Investigating the mechanisms of IGFBP-1 mediated protection from obesity-induced insulin resistance. *3 years*	£244,245
PG/13/3/29924	**Prof E White** BSc PhD	University of Leeds	β-adrenoceptor blockade: a novel treatment for right ventricular dysfunction caused by pulmonary hypertension. *3 years*	£191,319
PG/12/62/29823	**Prof T B Burdyga** BSc PhD DSc	University of Liverpool	Signalling pathways for vasomotor activity in microvascular networks in situ. *3 years*	£230,374
PG/13/21/30074	**Dr O M Mayans** BSc MSc PhD	University of Liverpool	The titin myofilament as an emerging factor in cardiomyopathy. *3 years*	£196,090
PG/13/20/30070	**Prof D A Middleton** DPhil BSc	University of Liverpool	Toward new therapies for heart failure associated with familial dilated cardiomyopathy. *1 year*	£65,350
PG/13/8/29989	**Prof S M Allan** BSc PhD	University of Manchester	Role of peripheral interleukin-1 in cerebrovascular disease. *3 years*	£274,826
PG/13/18/30055	**Prof M R Boyett** BSc PhD	University of Manchester	Sinoatrial node dysfunction in ageing and failing hearts: the role of the membrane and Ca2+ clocks. *3 years*	£291,443
PG/12/89/29970	**Dr K M Dibb** BSc PhD	University of Manchester	Functional significance of atrial t-tubule loss and its disorder following recovery from heart failure. *3 years*	£250,392
PG/13/12/30017	**Dr D Oceandy** MD PhD	University of Manchester	Signal modulation in cardiac fibroblasts by the plasma membrane calcium ATPase 4 (PMCA4) controls cardiac hypertrophy. *3 years*	£199,211
PG/12/43/29657	**Dr C O'Neill** BSc PhD	University of Manchester	In ventricular muscle are changes of t-tubule length constant during metabolic inhibition responsible for failure of excitation contraction coupling? *2 years*	£41,164
PG/12/76/29852	**Dr X Wang** MB ChB PhD	University of Manchester	An initial study of a novel mechanism of lipoapoptosis in the heart. *2 years*	£113,825
PG/13/27/29864	**Prof C W McIntyre** MBBS MRCP MD	University of Nottingham	PD-HF: a trial of peritoneal dialysis for patients with advanced heart failure and stage 3-4 chronic kidney disease. *2 years, 8 months*	£251,261
PG/12/46/29673	**Prof R P Choudhury** MA DM FRCP	University of Oxford	Discovery and validation of genomic signatures from monocytes in acute myocardial infarction. *3 years*	£263,462
PG/12/78/29862	**Prof F Karpe** MD PhD FRCP	University of Oxford	Role of R-SPONDIN3 signalling in the determination of obesity phenotypes/fat distribution and susceptibility to cardiovascular disease. *3 years*	£246,120

PG/12/87/29943	**Prof D J Paterson** MA MSc DPhil DSc	University of Oxford	Impairment of the norepinephrine re-uptake transporter in hypertension. *1 year, 6 months*	£134,392
PG/13/5/29973	**Dr C S Redwood** BSc PhD	University of Oxford	Investigation into the functional role of AMPK γ2 transcript variants in the heart. *2 years*	£124,552
PG/12/80/29891	**Prof J R Stradling** MD FRCP	University of Oxford	Oxidative stress and obstructive sleep apnoea: effect of withdrawing continuous positive airway pressure therapy. *1 year*	£60,594
PG/13/2/29902	**Dr T J A Chico** MBChB MD MRCP	University of Sheffield	How does blood flow influence Notch signalling? *2 years, 6 months*	£208,054
PG/12/82/29907	**Prof P C Evans** BSc MSc PhD	University of Sheffield	The influence of shear stress on vascular endothelial cell senescence. *2 years*	£115,511
PG/12/64/29828	**Dr R I Jabr** MSc PhD	University of Surrey	Investigation of the differential role of calcineurin isoforms in persistent electrophysiological myocardial changes following regression from left ventricular hypertrophy. *2 years*	£127,799
PG/12/59/29795	**Dr A C Conner** BSc PhD	University of Warwick	The second extracellular loop of the CGRP receptor: a docking site for vasoprotective ligands. *3 years*	£175,421

British Heart Foundation

Coronary heart disease is the UK's single biggest killer.

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