British Heart Foundation

Research Grant Awards 2013/2014

FIGHT FOR EVERY HEARTBEAT

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Introduction

In the year April 2013 to March 2014 the British Heart Foundation (BHF) awarded grants totalling £95.4 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 2013-2014 the Chairs and Programme Grants Committee awarded £32.2 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. The Fellowships Committee awarded 78 applications for personal awards to the value of £21.4 million and the Project Grants Committee awarded 91 applications to the value of £17.8 million.

Six Research Excellence Awards were made to universities across the UK, including four renewals. The awards were made following rigorous international peer review and provide up to £6 million each to King's College London and University of Oxford and £3 million each to University of Cambridge, University of Edinburgh, University of Glasgow and Imperial College London over five 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 award offered by BHF, and the application process, appear on the BHF website **bhf.org.uk/research**

*This represents the figure recorded in the audited accounts, excluding provision for inflation and supplements to existing grants, and having made adjustments for closed grants and departmental costs.

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: Cellular 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: Cellular 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: 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 interest: 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
Retired December 2013

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: Cellular 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: Cellular and molecular biology of production of reactive oxygen species 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: Cellular and molecular biology of stem cells and their importance in modulating atherosclerosis and restenosis.

University College London

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 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 of Manchester

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

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

University of Manchester

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 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 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 FMedSci

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 2013 – 31 March 2014

Fellowships
Non-clinical Fellowships

Senior Basic Science Research Fellowships

FS/13/16/30199	**Dr K A Dora** BSc PhD MA	University of Oxford	Coronary arteriole function in health and disease. *5 years*	£625,928
FS/13/48/30453	**Dr A Lawrie** BSc PhD	University of Sheffield	Defining cellular and molecular interactions in the OPG/TRAIL pathway in pulmonary arterial hypertension. *5 years*	£1,010,100

Intermediate Basic Science Research Fellowships

FS/14/1/30551	**Dr J R B Burgoyne** PhD	King's College London	A novel mode of action for resveratrol: studies assessing the role of protein thiol oxidation. *4 years*	£319,431
FS/13/18/30207	**Dr A Zampetaki** PhD	King's College London	The novel role of miR-15 family in extracellular matrix remodelling in the vasculature. *4 years*	£319,563
FS/13/49/30421	**Dr M P Longhi** BSc PhD	Queen Mary, University of London	Metabolic programming of arterial wall dendritic cell differentiation as a key event in the development of vascular inflammation in atherosclerosis. *4 years*	£542,939
FS/14/2/30630	**Dr M P Koeners** PhD	University of Bristol	Examining the role of intra-renal hypoxia in chronic kidney disease. *4 years*	£471,409
FS/13/17/29905	**Dr P S Hartley** PhD MPhil BSc	University of Edinburgh	From flies to humans: using *Drosophila* genetics to study cardiovascular physiology. *4 years*	£422,903
FS/13/50/30436	**Dr M Monteiro** PhD	University of Oxford	The role of TGFß signalling in angiogenic and haemogenic endothelial cell programming. *4 years*	£540,178

Immediate Postdoctoral Basic Science Research Fellowships

FS/14/3/30518	**Dr T G Girbl** PhD MSc BSc	Queen Mary, University of London	An investigation into the expression and function of pericyte-associated chemokines in inflammation. *3 years*	£230,516
FS/13/35/30148	**Dr C R Raimondi** PhD	University College London	Role of neuropilin 1 in controlling endothelial cell signalling and migration in response to extracellular matrix components. *3 years*	£171,582
FS/13/19/29931	**Dr P Caruso** PhD	University of Cambridge	Role of miRNAs in endothelial cell dysfunction and angiogenesis: implications for pathobiology and therapy of pulmonary arterial hypertension. *3 years*	£205,651

4-year PhD Studentships

FS/13/54/30642	**Prof S E Harding** BSc PhD	Imperial College London	Imperial 1st intake 2013 – 4-year PhD Studentship Scheme: Ms Eleanor Humphrey; Ms Micaela Jenkins; Ms Alicia Lledo-Lara; Mr Thomas Owen. *4 years*	£674,824
FS/13/55/30643	**Prof M Avkiran** BSc PhD DSc	King's College London	KCL 1st intake 2013 – 4-year PhD Studentship Scheme: Mr Simon Burr; Ms Karen Frudd; Ms Hannah Lewis; Ms Phoebe Kitscha. *4 years*	£624,960
FS/13/58/30648	**Prof T D Warner** BSc PhD	Queen Mary, University of London	QMUL 1st intake 2013 – 4-year PhD Studentship Scheme: Mr James Cartwright; Ms Sandy Chu; Ms Lorna Forrest; Mr Gareth Purvis. *4 years*	£615,624
FS/13/59/30649	**Prof P J Scambler** BSc MB ChB MD FRCPath	University College London	UCL 1st intake 2013 – 4-year PhD Studentship Scheme: Mr James Brash; Mr Aleksandra Herbec; Ms Kirsty Waddington; Ms Annette Whittington. *4 years*	£627,256
FS/13/51/30636	**Prof M R Bennett** BSc MBChB PhD MA FRCP FAHA FMedSci	University of Cambridge	Cambridge 1st intake 2013 – 4-year PhD Studentship Scheme: Mr Adam Fellows; Mr Fedir Kiskin; Ms Lauren Murray; Ms Kimberley Wiggins. *4 years*	£619,740
FS/13/52/30637	**Dr M A Bailey** BSc PhD	University of Edinburgh	Edinburgh 1st intake 2013 – 4-year PhD Studentship Scheme: Ms Emma Batchen; Mr Callum Davidson; Ms Amelia Howarth; Mr Robert Ogley . *4 years*	£592,316
FS/13/53/30640	**Prof R M Touyz** BSc MBBCh MSc PhD	University of Glasgow	Glasgow 1st intake 2013 – 4-year PhD Studentship Scheme: Ms Amy Comrie; Mr Craig Hamilton; Ms Hannah Martin; Ms Lauren Wills. *4 years*	£575,972
FS/13/56/30645	**Dr C E Austin** BSc PhD	University of Manchester	Manchester 1st intake 2013 – 4-year PhD Studentship Scheme: Mr Tom Bosworth; Ms Jenny James; Ms Sophie Saxton; Ms Claire Wilson. *4 years*	£575,512
FS/13/57/30647	**Prof D R Greaves** BSc PhD	University of Oxford	Oxford 1st intake 2013 – 4-year PhD Studentship Scheme: Mr David Eberhardt; Mr Antonio Miranda; Ms Alice Pinkney; Mr Michael Weinberger. *4 years*	£623,796

3-year PhD Studentships

FS/13/61/30409	**Ms S Hamilton** BSc	Cardiff University	Resolving the contribution of luminal and cytosolic Ca^{2+} in the dysfunction of SCD-linked mutant RyR2 channels: an in-depth analysis of channel gating. *3 years*	£102,393
FS/13/21/30143	**Mr M Fair** BSc	Imperial College London	Development of whole-heart first-pass myocardial perfusion MRI. *3 years*	£94,767
FS/14/6/30573	**Ms T Svermova** BSc	Imperial College London	SRAGE-activated endothelial barrier dysfunction: a possible link to glycocalyx and Robo4 disruption. *3 years*	£115,992

FS/13/66/30445	**Mr T Keeley** BSc	King's College London	Nrf2-mediated redox signalling and intracellular oxygen utilisation in cultured human endothelial cells adapted to physiological oxygen levels *in vivo. 3 years*	£120,846
FS/13/28/30208	**Mr D Townsend** BSc	Lancaster University	The mechanism and cellular effects of apolipoprotein A-I aggregation into amyloid fibrils associated with atherosclerosis. *3 years*	£104,305
FS/13/24/30124	**Mr C Huggins** BSc	St George's, University of London	Elevation of plasma high-density lipoproteins inhibits AngII-induced aneurysm formation – investigating the mechanisms of action. *3 years*	£113,176
FS/13/60/30457	**Ms A Lampropoulou** BSc MSc	University College London	NRP1 regulation of RHO GTPases and gene transcription in angiogenesis. *3 years*	£114,015
FS/13/40/30343	**Ms A Ronaldson** BA MSc	University College London	Neuroendocrine function and inflammatory cytokine responses to acute psychological stress and cardiovascular disease risk. *3 years*	£113,352
FS/13/41/30368	**Ms P Samangouei** BSc	University College London	The role of the novel mitochondrial fission proteins, MID49 and MID51, in the heart. *3 years*	£114,335
FS/13/26/30186	**Ms S Drsydale** MSci	University of Aberdeen	The role of sphingolipids in monocyte binding: a potential therapeutic target in restenosis. *3 years*	£104,438
FS/13/70/30521	**Dr J Futterer** MD	University of Birmingham	The functional role of ANKRD18A in megakaryocytes and platelets. *1 year, 9 months*	£62,996
FS/13/68/30489	**Ms B Monk** BSc	University of Bristol	Dysfunctional Wnt signalling in ageing: implications for cardiovascular disease. *1 year, 9 months*	£67,006
FS/13/38/30319	**Mr J Zahra** BSc	University of Bristol	Recruiting males into physical activity research and interventions: how can we encourage males to use physical activity interventions? *3 years*	£84,356
FS/13/65/30441	**Dr J Bargehr** MD	University of Cambridge	The role of human embryonic stem cell-derived epicardium and smooth muscle cells in myocardial graft development. *3 years*	£126,863
FS/13/63/30437	**Mr H Roweth** BSc	University of Cambridge	Determination of the mechanism of action of platelet inhibition by the selective serotonin reuptake inhibitor citalopram and its chirally pure isomers. *3 years*	£112,200
FS/13/22/30126	**Ms F Ashford** BSc	University of Dundee	IInteraction between palmitoylation and glutathionylation in the regulation of cardiac function. *3 years*	£104,227
FS/14/7/30574	**Mr A Martello** BSc	University of Edinburgh	Trichoplein: role for a novel regulator in the endothelial cell function in diabetes. *3 years*	£105,386

FS/13/69/30504	**Mr A Inchingolo** MSc	University of Essex	Understanding the molecular origins of cardiomyopathy using a single molecule imaging approach. *3 years*	£96,768
FS/13/23/30122	**Ms H Appleby** BSc	University of Leeds	Fundamental properties of Orai3 in endothelial cells. *3 years*	£109,974
FS/13/36/30243	**Mr K Simpson** BSc	University of Leeds	The effects of modulating circulating Factor XIII-A concentration on thrombus volume. *3 years*	£105,904
FS/13/62/30411	**Mr M Iqbal** BSc MRes	University of Manchester	Caveolin-3 a novel regulator of ryanodine receptor nitrosylation: a relationship that is perturbed in diabetic cardiomyopathy. *3 years*	£104,079
FS/14/4/30532	**Ms S Smith** MSc	University of Manchester	Development of the neonatal atrial t-tubule network and the involvement of Amphiphysin II and CLIP-170. *3 years*	£104,499
FS/14/5/30533	**Student to be appointed**	University of Manchester	Identifying atrial arrhythmia substrate(s) in the short QT syndrome. *3 years*	£98,716
FS/13/37/30295	**Ms A Mizdrak** BA	University of Oxford	Assessing how different socio-economic groups in the UK respond to food price changes using the Virtual Supermarket. *3 years*	£97,171
FS/13/64/30439	**Mr S Leonard** BSc	University of Reading	Regulation of cardiac gene expression by c-Jun N-terminal kinase (JNK) vs p38-MAPK signalling in response to oxidative stresses. *3 years*	£105,043
FS/13/27/30191	**Mr N Bowden** MBiolSci	University of Sheffield	Does shear stress sculpt focal atherosclerosis by inducing the NF-kB regulator Cezanne? *3 years*	£104,381
FS/14/8/30605	**Student to be appointed**	University of Sheffield	How do neutrophil microparticles promote vascular inflammation? *3 years*	£106,814
FS/13/67/30473	**Student to be appointed**	University of Southampton	Microfluidic deflection for high throughput single platelet sensitivity testing. *3 years*	£53,601
FS/13/25/30155	**Ms G Hargrave** BSc	University of Strathclyde	Understanding the effects of cancer radiation therapy on endothelial cell dysfunction – the role of nuclear factor kappa B. *3 years*	£104,569
FS/13/39/30370	**Ms R Lewis** BSc MSc	University of Swansea	The psychological and health impact following failed cardiopulmonary resuscitation of an emotionally close individual. *3 years*	£83,818
FS/13/42/30377	**Ms A Bachmann** MSc	University of Warwick	Kinesin-control of podosome formation in vascular smooth muscle cells. *3 years*	£105,584

Advanced Training Award

FS/13/20/30141	**Dr M Bryan** MSci PhD	University of Sheffield	Using magnetic tweezers to decipher the mechanical code in endothelial cells. *2 years*	£106,721

Training Fellowships

FS/13/72/30531	**Prof R Al-Shahi Salman** MA MB BChir PhD FRCP	University of Edinburgh	Globalising the BHF REstart or STop Antithrombotics Randomised Trial (RESTART). *6 months*	£21,850
FS/13/15/30026	**Dr G M Morris** BA MA BMBCh MRCP PhD	University of Manchester	High-resolution mapping of human atrial fibrillation waves: insights into mechanisms of persistent atrial fibrillation. *2 years*	£74,215

Clinical Fellowships

Senior Clinical Research Fellowships

FS/13/43/30324	**Prof Dr P K Kirchhof** MD FESC FHRS	University of Birmingham	Understanding the function of PITX2 in the adult left atrium. *5 years*	£1,210,736
FS/13/29/30024	**Dr S Sinha** MB BChir MRCP PhD	University of Cambridge	Vascular disease modelling using human pluripotent stem cell-derived smooth muscle cells. *5 years*	£1,053,178

Intermediate Clinical Research Fellowships

FS/13/44/30291	**Dr Z I Whinnett** MRCP BM BS BMedSci PhD	Imperial College London	Invasive haemodynamic evaluation of mechanisms and quantification of scope for innovation in biventricular pacing. *4 years*	£354,035
FS/13/30/29994	**Dr N Dhaun** BSc MBPhD	University of Edinburgh	Macrophage regulation of the pro-hypertensive and pro-inflammatory effects of endothelin-1. *4 years*	£757,149
FS/13/71/30378	**Dr E D A Dall Armellina** MD DPhil	University of Oxford	Quantitative cardiovascular magnetic resonance imaging techniques for prediction of complications after acute myocardial infarction. *4 years*	£737,796

Clinical Research Training Fellowships

FS/13/76/30477	**Dr E L Heng** MBBS BSc MRCP	Imperial College London	Improved outcome prediction in Tetralogy of Fallot. *3 years*	£223,064
FS/13/34/30173	**Dr A Morley-Smith** MA MB BChir MRCP	Imperial College London	Partial left ventricular support in advanced heart failure. *3 years*	£178,810
FS/14/13/30619	**Dr C Raphael** MBBS MRCP MA BSc AISCM	Imperial College London	Assessment of coronary haemodynamics and the mechanisms of perfusion abnormalities and chest pain in hypertrophic cardiomyopathy. *2 years*	£116,436

FS/12/55/29695	**Dr S Sarvananthan** MS MCh FCCP FRCS	Imperial College London	The distribution and characteristics of endogenous cardiac stem cells in the adult human heart. *3 years*	£203,465
FS/12/53/29643	**Student to be appointed**	Imperial College London	The role of left atrial ganglionated plexi sites that trigger pulmonary vein ectopy in the pathogenesis of paroxysmal atrial fibrillation. *3 years*	£159,030
FS/12/82/29736	**Mr A Bajwa** BSc MBBS MRCS	King's College London	Developing a novel magnetic resonance imaging strategy to assess tissue perfusion in the ischaemic limb. *2 years*	£138,109
FS/12/35/29566	**Dr T Patterson** MBBS BMedSci MRCP	King's College London	Investigating the haemodynamic and physiological principles underlying cold induced angina using invasive coronary measures of flow and cardiac workload. *3 years*	£217,536
FS/12/56/29723	**Student to be appointed**	King's College London	Anti-atherogenic effects of anti-platelet drugs in patients with silent atherosclerosis. *3 years*	£206,149
FS/12/86/29841	**Student to be appointed**	King's College London	Comparison of the pathophysiological aetiology of exercise vs mental-stress-induced myocardial ischaemia. *3 years*	£234,060
FS/12/29/29463	**Dr A Merghani** BMedSci MBBS	St George's, University of London	The veteran athlete's heart. *2 years*	£132,315
FS/12/87/29899	**Dr L Wong** BSc MBBChir MRCPCH	St George's, University of London	Genetic risk in sudden infant death syndrome. *2 years*	£207,044
FS/12/33/29561	**Dr N Srinivasan** BSc MBChB MRCP	University College London	Investigation of mechanisms of T wave generation and the identification of dynamic ECG biomarkers of myocardial electrical instability. *3 years*	£196,305
FS/12/27/29405	**Dr A Brown** BSc MB BChir	University of Cambridge	Predicting plaque rupture using invasive imaging and biomechanical modelling. *2 years*	£184,954
FS/12/83/29781	**Dr C Maniero** MD	University of Cambridge	Novel regulators of calcium fluctuations in the zona glomerulosa of the human adrenal, and their relevance to the control of aldosterone production. *3 years*	£160,674
FS/12/84/29814	**Dr T Cartlidge** BSc MBChB MRCP	University of Edinburgh	^{18}F-Fluoride in the identification of bioprosthetic valve degeneration following surgical and transcatheter implantation. *3 years*	£294,956
FS/12/28/29417	**Dr D S Corcoran** BSc MRCP	University of Glasgow	Microvascular dysfunction in patients with angina: the CEMARC-2 microvascular substudy. *3 years*	£194,855
FS/12/51/29584	**Dr V Hartill** MBCHB BSc MRCPCH	University of Leeds	Congenital heart disease gene identification by whole exome medical resequencing. *3 years*	£188,753
FS/14/10/30472	**Dr A M N Walker** BMedSci MBChB	University of Leeds	Examining the effect of reducing IGF-1 receptor expression in late outgrowth endothelial progenitor cells from insulin resistant humans. *3 years*	£168,547

MBPhD Studentships

FS/13/46/30282	**Mr C Kane** BSc	Imperial College London	Control of cardiac myocyte electrical and contractile properties by cardiac fibroblasts via soluble mediators. *3 years*	£118,225

Research Excellence Awards

RE/13/4/30184	**Prof M D Schneider** MD FMedSci	Imperial College London	Research Excellence (renewal). *5 years*	£3,000,000
RE/13/2/30182	**Prof A M Shah** MD FRCP FESC FMedSci	King's College London	Research Excellence (renewal). *5 years*	£6,000,000
RE/13/6/30180	**Prof N W Morrell** MBBS BSc MA MD FRCP FMedSci	University of Cambridge	Research Excellence. *5 years*	£3,000,000
RE/13/3/30183	**ProfJ Mullins** BSc PhD	University of Edinburgh	Research Excellence (renewal). *5 years*	£3,000,000
RE/13/5/30177	**Prof R M Touyz** BSc MBBCh MSc PhD	University of Glasgow	Research Excellence. *5 years*	£3,000,000
RE/13/1/30181	**Prof H C Watkins** MD PhD FRCP FMedSci	University of Oxford	Research Excellence (renewal). *5 years*	£6,000,000

Strategic Initiative Grant

SI/14/1/30718	**Prof S Plein** MRCP MD PhD	University of Leeds	Funding towards equipment in a new Centre for Translational Cardiovascular Imaging. *18 months*	£1,893,264

Infrastructure Grants

IG/14/1/30652	**Prof S P Watson** BSc PhD FMedSci	University of Birmingham	Funding towards research equipment in the VITA (Vascular Inflammation, Thrombosis and Angiogenesis) group in the Centre of Cardiovascular Sciences. *1 year*	£250,000
IG/13/3/30212	**Prof M B Cannell** BSc PhD	University of Bristol	Funding towards a new confocal microscope. *1 year*	£142,113
IG/13/4/30317	**Prof D A Eisner** MA DPhil FMedSci	University of Manchester	Funding towards a dynamic retinal vessel analyser and a high-speed spinning disc confocal microscope. *1 year*	£186,529

IG/13/6/ 30629	**Prof Sir Rory Collins** MSc MBBS LMS SA FMedSci FRCP	University of Oxford	Funding towards the Clinical Trial Service Unit and Epidemiological Studies Unit's (CTSU) involvement in the planned Oxford University Big Data Institute. *2 years*	£1,000,000
IG/13/5/ 30431	**Dr K A Dora** BSc PhD MA	University of Oxford	Funding towards a confocal microscope. *1 year*	£92,550

Special Project Grants

SP/13/4/ 30415		Academy of Medical Sciences	Academy of Medical Sciences Clinical Lecturer Starter Grants (renewal: years 4-6). *3 years*	£576,000
SP/13/5/ 30288	**Prof S Jeffery** BSc PhD	St George's, University of London	Functional analysis of GATA2 and KIF11: newly identified genes for primary lymphoedema. *5 years*	£565,826
SP/13/3/ 30417		UKCRC Public Health Research Centres of Excellence, Medical Research Council	UKCRC Public Health Research Centres of Excellence (renewal: years 6-10). *5 years*	£1,500,000
SP/13/6/ 30554	**Prof A D Hingorani** BA MA MBBS MRCP PhD FRCP FESC	University College London	Cardiometabolic disease prediction, causal analysis and drug development using high-resolution ^{1}H- nuclear magnetic resonance (NMR) metabolomics (The UCLEB consortium). *3 years*	£795,445
SP/13/7/ 30575	**Dr S M Jung** BSc MS PhD	University of Cambridge	GPVI-dimer, a specific target in ischaemic heart disease and stroke. *4 years*	£798,128
SP/14/1/ 30717	**Dr H Philippou** BSc PhD	University of Leeds	Development and characterisation of mode of action of first-in class anticoagulant small molecules with no bleeding risk: identification of lead candidate. *1 year, 3 months*	£724,781

Clinical Study Grants

CS/13/1/ 30327	**Prof N Chaturvedi** MBBS MSc MRCP MFPHM MD	Imperial College London	Consequences of ethnic differences in cardiometabolic disease in older age: the Southall and Brent Revisited (SABRE) tri-ethnic population cohort. *5 years*	£1,864,306
CS/14/1/ 30659	**Prof T M MacDonald** BSc MBChB MD FRCP FRCPE FRCPSG FESC FISPE FBPharmacolS	University of Dundee	Treatment In the Morning versus Evening (TIME) study. *5 years*	£1,059,948
CS/13/2/ 30584	**Prof M J Johnson** MD FRCP MBChB	University of Hull	Morphine for the relief of breathlessness in stable chronic heart failure. *3 years, 6 months*	£655,288

Programme Grants

Listed alphabetically by Institute

RG/14/1/30588	**Prof S E Harding** BSc PhD	Imperial College London	Human cardiomyocytes from pluripotent stem cells to study β-adrenoceptor signalling (renewal). *5 years*	£1,119,422
RG/13/12/30395	**Prof G Lombardi** BSc PhD	King's College London	Optimising the efficacy of regulatory T cells: informing clinical application (renewal). *5 years*	£1,592,706
RG/13/11/30384	**Prof A M Shah** MD FRCP FESC FMedSci	King's College London	Redox-regulated adaptive pathways in heart failure (renewal). *5 years*	£1,915,295
RG/13/19/30568	**Prof D P Kelsell** BSc PhD	Queen Mary, University of London	Unravelling the molecular and mechanistic complexity of ARVC via the skinl. *5 years*	£1,043,917
RG/14/2/30616	**Prof F Marelli-Berg** MD PhD	Queen Mary, University of London	Investigating the topography of effector and regulatory immunity in the cardiovascular system: basic mechanisms and therapeutic potential (renewal). *5 years*	£841,586
RG/13/16/30528	**Prof P H Whincup** MA MB BChir MSc PhD FRCP FESC FFPH	University College London	British Regional Heart Study (BRHS): a long-term prospective investigation of cardiovascular disease (causes, pathways, prediction and prevention) among older British men (renewal). *5 years*	£1,016,140
RG/13/18/30563	**Prof S P Watson** BSc PhD FMedSci	University of Birmingham	The platelet ITAM receptors, CLEC-2 and GPVI, in development, maintenance and thrombo-inflammatory processes in the vasculature. *5 years*	£1,418,951
RG/13/17/30545	**Prof P Madeddu** MD	University of Bristol	Unravelling mechanisms of stem cell depletion for preservation of regenerative fitness in patients with diabetes. *5 years*	£787,021
RG/13/14/30314	**Prof M R Bennett** BSc MBChB PhD MA FRCP FAHA FMedSci	University of Cambridge	Regulation of vascular smooth muscle cell apoptosis and cell senescence in atherosclerosis. *5 years*	£1,782,915
RG/13/13/30194	**Prof J N Danesh** MBChB MSc DPhil	University of Cambridge	Large-scale integrative studies of risk factors in coronary heart disease: from discovery to application (renewal). (Joint funding with MRC). *5 years*	£1,999,239
RG/14/3/30706	**Prof A H Baker** BSc PhD	University of Glasgow	Non-coding RNA in vascular pathophysiology (renewal). *5 years*	£1,418,700
RG/13/15/30683	**Dr J Dawson** MBChB BSc MD FRCP	University of Glasgow	Fifth Joint Stroke Association/BHF Programme Grant: Xanthine oxidase Inhibition for improvement of Long-term Outcomes Following Ischaemic Stroke and Transient ischaemic attack (XILO-FIST). *5 years*	£749,952
RG/13/10/30376	**Prof J D Brook** BSc PhD	University of Nottingham	A genetic roadmap for congenital heart disease (renewal). *5 years*	£1,176,076

RG/13/8/30266	**Prof S Neubauer** MD FRCP FACC FMedSci	University of Oxford	Myocardial energetics in ischaemia and heart failure – exploring translational potential (renewal). *5 years*	£1,644,163
RG/13/9/30269	**Prof P R Riley** BSc PhD FMedSci	University of Oxford	Epicardial activation and signalling during cardiovascular repair: comparing regenerative and non-regenerative models (renewal). *5 years*	£1,145,345

New Horizons Grants

NH/13/2/30347	**Dr M A Denvir** PhD FRCP	University of Edinburgh	Development of cardiac MRI for studying zebrafish models of cardiovascular disease. *2 years*	£176,573
NH/13/1/30238	**Dr V G Grau** MSc PhD	University of Oxford	Mechanisms of ventricular wall deformation revealed by quantitative, imaging-based computer models incorporating sheet- and fibre-dynamics of normal and diseased heart. *3 years*	£299,502

Project Grants

Listed alphabetically by Institute

PG/13/28/29833	**Dr T R Hughes** BSc PhD	Cardiff University	The role of complement dysregulation and C3adesArg in atherosclerosis. *3 years*	£268,587
PG/13/54/30358	**Prof M Malik** PhD MDI	Imperial College London	Analysis of surface electrocardiograms for the prediction of ICD efficacy. *1 year, 3 months*	£39,982
PG/13/53/30351	**Prof J C Mason** PhD FRCP	Imperial College London	Investigation of protein kinase Cε as a therapeutic target for endothelial dysfunction, vascular inflammation and atherosclerosis. *2 years*	£241,906
PG/13/49/30307	**Prof N Modi** MBChB MD FRCP FRCPCH FRCPE	Imperial College London	The metabolic phenotype of the young adult born preterm. *2 years*	£298,077
PG/13/44/30321	**Dr D O'Regan** MRCP FRCR PhD	Imperial College London	Does exercise-MRI predict response to therapy in pulmonary hypertension? 2 years	£232,551
PG/14/11/30657	**Dr G M Ellison** BSc PhD	King's College London	Ageing and senescence of endogenous cardiac stem cells (eCSCs) determines myocardial regenerative potential. *3 years*	£189,298
PG/13/50/30426	**Dr S Garcia-Manyes** BSc MSc PhD	King's College London	The molecular mechanisms governing the reversible mechanical folding of cardiac titin. *3 years*	£214,436
PG/14/12/30664	**Dr Y Hinits** BSc MSc PhD	Imperial College London	The role of Mef2 in adult zebrafish heart regeneration. *3 years*	£265,335

PG/13/37/30280	**Dr S A Niederer** DPhil	King's College London	The interdependence of anatomy and function in atrial fibrillation. *3 years*	£234,920
PG/13/35/30236	**Prof R J Oakey** BSc DPhil	King's College London	Characterisation of the endocardial epigenome for identification of therapeutic *regenerative strategies. 2 years*	£144,975
PG/13/97/30487	**Prof S Plein** MRCP MD PhD	King's College London	Robust three-dimensional whole heart myocardial perfusion MR imaging using highly accelerated data-driven motion corrected parallel imaging. *3 years*	£198,622
PG/13/38/30289	**Prof L Poston** BSc PhD FRCOG FMedSci	King's College London	Effect of a complex lifestyle intervention in pregnant obese women on childhood cardiovascular function. *3 years*	£203,157
PG/13/29/30121	**Dr W Wong** BSc MBBS MRCP DPhil	King's College London	The lymphatic system in cardiac transplantation. *1 year, 6 months*	£139,824
PG/13/63/30419	**Dr L Zeng** PhD	King's College London	The role of HDAC3 unconventional splicing-mediated endothelial-mesenchymal transition in cardiac fibrosis. *3 years*	£213,388
PG/13/66/30442	**Prof J P Casas** BSc PhD	London School of Hygiene and Tropical Medicine	High resolution analysis of biological and environmental determinants of cardiovascular risk factors and cardiovascular events in older women. *3 years*	£296,808
PG/13/88/30556	**Prof M Kelly** MD PhD	London School of Hygiene and Tropical Medicine	Is the cardiac pathology associated with chronic Chagas disease preventable with anti-parasitic drugs? *3 years*	£274,379
PG/13/84/30486	**Dr H Moosavi** BSc PhD	Oxford Brookes University	Inhaled frusemide for dyspnoea relief in advanced heart failure. 3 years	£255,568
PG/14/14/30690	**Prof A J Hobbs** BSc PhD	Queen Mary, University of London	Delineating a role for endothelium-derived C-type natriuretic peptide in the vascular and cardiac dysfunction associated with sepsis. *3 years*	£248,290
PG/13/45/30326	**Dr Q Xiao** BSc MD PhD	Queen Mary, University of London	Functional involvements of matrix metalloproteinase-8 in macrophage polarisation and its contributions to atherosclerotic lesion progression and plaque vulnerability. *1 year*	£74,159
PG/14/9/30632	**Prof G J Linden** BSc PhD BDS FDS FFD	Queen's University, Belfast	Chronic periodontitis and incident coronary heart disease: a prospective cohort study. *3 years*	£171,041
PG/13/62/30414	**Dr D M McDonald** BSc MMedSc PhD	Queen's University, Belfast	The role of nitric oxide in vascular tip/stalk cell specification. *3 years*	£213,672
PG/13/87/30550	**Dr F T Antonios** MMBChB MSc MD FESC FRCP	St George's, University of London	The role of capillary rarefaction in the pathogenesis of essential hypertension: insights from studies in newborn infants. *3 years*	£293,665

PG/14/18/30724	**Dr I E Dumitriu** MD PhD	St George's, University of London	Modulating apoptosis for targeted elimination of CD4+CD28null T cells in acute coronary syndrome. *3 years*	£191,385
PG/13/98/30490	**Mr P J E Holt** PhD FRCS	St George's, University of London	Aneurysm CaRe: a pilot randomised controlled trial of cardiac rehabilitation after aortic aneurysm repair. *2 years*	£97,654
PG/13/78/30400	**Dr G Burriesci** MEng PhD	University College London	Development of an artificial mitral valve for transcatheter implant. *2 years*	£182,714
PG/13/86/30546	**Dr J M H Jefferis** MA MSc PhD	University College London	Understanding the associations between physical activity and sedentary behaviours with cardiovascular risk in older age: a population-based study with objective physical activity monitoring. *2 years*	£144,032
PG/13/41/30304	**Prof W Morris** MSc PhD	University College London	Explaining excess winter mortality from coronary heart disease: analysis of UK-based prospective studies. *2 years*	£154,535
PG/13/79/30429	**Prof A G Ramage** BSc PhD DSc	University College London	Role of 5-hydroxytryptamine (5-HT; serotonin) in the regulation of glutamate release from cardiovascular afferents in the nucleus tractus solitarius (NTS). *3 years*	£193,809
PG/13/65/30440	**Prof A P A Steptoe** MA DPhil DSc FBPsS AcSS FMedSci	University College London	Understanding the relationship between sleep and cardiovascular risk: studies using self-report and objective sleep measures. *2 years*	£88,169
PG/13/60/30406	**Dr A Brill** MD PhD	University of Birmingham	The role of mast cells in deep vein thrombosis. *3 years*	£223,024
PG/13/40/30297	**Dr D Jones** BSc DPhil	University of Birmingham	Utilising invariant natural killer T cell activation to promote the survival of cardiac allografts. *3 years*	£259,529
PG/13/51/30296	**Dr A Mazharian** PhD	University of Birmingham	Investigation of molecular mechanisms regulating megakaryocyte and platelet hyperactivity and prothrombotic disorders in LAIR-1 and PECAM-1-deficient mice. *3 years*	£243,199
PG/13/36/30275	**Dr V Morgan** BSc PhD	University of Birmingham	Molecular genetic investigation of patients with congenital thrombocytopenias. *3 years*	£181,658
PG/13/92/30587	**Dr M G Tomlinson** BSc DPhil	University of Birmingham	Regulation of the store-operated Ca^{2+} entry channel Orai1 by platelet tetraspanin Tspan18. *3 years*	£187,327
PG/13/42/30309	**Prof S P Watson** BSc PhD FMedSci	University of Birmingham	Role of FcγRIIA and Src and Syk tyrosine kinases in bacterial-mediated platelet activation. *2 years*	£136,142
PG/13/68/30446	**Prof J C Hancox** BSc PhD FSB FBPharmacolS	University of Bristol	Modulation of hERG potassium channel function by intracellular acidosis. *2 years*	£110,542
PG/14/3/30565	**Dr I Hers** BSc MSc PhD	University of Bristol	Role of sharpin in platelet integrin αIIbβ3 and α2β1regulation and thrombus formation. *3 years*	£222,039

PG/13/48/30341	**Dr J L Johnson** MSc PhD	University of Bristol	Role of TIMP-3 in abdominal aortic aneurysm formation and progression. *2 years*	£140,015
PG/13/70/30458	**Prof H Mellor** BSc PhD	University of Bristol	Spatial regulation of VEGF receptor recycling in angiogenesiss. *3 years*	£181,272
PG/13/94/30594	**Dr J Mundell** BSc PhD	University of Bristol	Regulation of platelet P2Y12 receptor function by tetherin. *3 years*	£198,731
PG/14/5/30547	**Prof D A Giussani** MA PhD	University of Cambridge	Mitochondrial targeted antioxidant therapy against programming of cardiovascular disease by developmental hypoxia. *3 years*	£253,562
PG/14/16/30699	**Prof A M L Lever** MBBCh MD FRCP FRCP FRCPath FRSC FMedSci	University of Cambridge	Investigating the mechanism of ex vivo expanded late outgrowth endothelial progenitor cell homing and engraftment *in vitro* and *in vivo* and their involvement in chronic allograft vasculopathy. *3 years*	£120,593
PG/13/72/30461	**Prof Z Mallat** MD PhD	University of Cambridge	Cellular and molecular mechanisms underlying the association between 9p21 DNA variants and the risk of vascular aneurysm. *2 years*	£135,682
PG/13/73/30466	**Prof Z Mallat** MD PhD	University of Cambridge	Targeting B cell-specific Notch signalling in atherosclerosis. *2 years*	£146,095
PG/13/30/30005	**Prof H S Markus** BM BCh BA FRCP DM	University of Cambridge	Is the HDAC inhibitor sodium valproate associated with reduced stroke risk? *2 years*	£124,603
PG/13/91/30579	**Prof N W Morrell** MBBS BSc MA MD FRCP FMedSci	University of Cambridge	Defining the role of bone-marrow-derived cells in pulmonary arterial hypertension. *3 years*	£216,600
PG/13/89/30577	**Dr K M O'Shaughnessy** MA BM BCh DPhil FRCP FHEA	University of Cambridge	The role of Cullin3 and Kelch-3 in the distal nephron. *3 years*	£242,875
PG/13/46/30329	**Dr S E Ozanne** BSc PhD	University of Cambridge	A pharmacological intervention to prevent the effects of maternal diet-induced obesity on cardiovascular health and insulin resistance in the offspring. *3 years*	£233,197
PG/13/64/30435	**Prof K G C Smith** MA BMedSc MBBS PhD FRACP FRCPA FRCP FHEA FMedSci	University of Cambridge	A genome-wide association study in anti-MPO-ANCA vasculitis. *3 years*	£289,706
PG/13/39/30293	**Dr A J Thompson** BSc PhD	University of Cambridge	Identification of P2X1 ligands as potential anti-thrombotics. *3 years*	£224,752
PG/13/77/30375	**Dr R Tijssen P**hD	University of Cambridge	Defining the function of novel regulators of platelet formation. *2 years*	£151,966
PG/13/67/30444	**Dr J George** MB ChB MRCP MD	University of Dundee	Does Allopurinol regress Left Ventricular Hypertrophy in Patients with Treated Essential Hypertension? (The ALLAY-EH Trial). *3 years*	£298,414

PG/14/4/ 30539	**Prof C C Lang** BMSc MD FRCP FACC	University of Dundee	METfoRmin and its Effects on MyOcardial DimEnsion and Left ventricular hypertrophy in normotensive patients with coronary artery disease (MET-REMODEL Trial) . *3 years*	£251,542
PG/14/6/ 30592	**Prof A D Struthers** BSc MD FRCP FESC FRSE FMedSci	University of Dundee	Do xanthine oxidase inhibitors reduce right ventricular mass in pulmonary hypertension? *3 years*	£295,293
PG/13/32/ 30205	**Dr L M Cruden** BMedSci PhD MBChB FRCP	University of Edinburgh	Development of a clinical translational model of arterial injury and repair to assess vascular stem cell therapies. *2 years*	£299,405
PG/13/82/ 30483	**Dr P Salt** BSc PhD	University of Glasgow	Inhibition of endothelial mitogen-activated protein kinases by AMP-activated protein kinase. *3 years*	£186,759
PG/13/31/ 30156	**Dr A J Workman** BSc PhD	University of Glasgow	Human atrial action potential alternans and afterdepolarisations: electrophysiological and calcium-cycling mechanisms and effects of myocardial disease. *3 years*	£163,201
PG/13/90/ 30578	**Prof K M Naseem** BSc PhD	University of Hull	Molecular mechanisms underlying platelet activation by oxidised low density lipoproteins – dissecting the composition of the platelet CD36 signalosome. *3 years*	£181,703
PG/13/75/ 30200	**Prof M A Geeves** BSc PhD DSc	University of Leeds	β-cardiac myosin mutations: triggers for the development of hypertrophic and dilated cardiomyopathies. *3 years*	£249,405
PG/14/15/ 30691	**Prof S Egginton** BSc PhD DSc	University of Leeds	How much does microvascular rarefaction contribute to skeletal muscle fatigability and impair remodelling capacity? *3 years*	£237,094
PG/13/81/ 30474	**Dr C P Gale** BSc MBBS MRCP PhD MEd FESC MSc	University of Leeds	Cumulative missed opportunities for care after acute myocardial infarction: a linked national cardiovascular registries cohort study to identify preventable deaths. *2 years*	£212,791
PG/13/52/ 30346	**Dr L McKeown** PhD BSc	University of Leeds	Properties and roles of tunnelling nanotubes in vascular endothelial cells. *1 year, 6 months*	£139,338
PG/13/61/ 30410	**Prof C Peers** BSc PhD	University of Leeds	Regulation of cardiac ERG K^+ channels by carbon monoxide. *3 years*	£203,837
PG/14/10/ 30641	**Prof S Plein MRCP MD PhD**	University of Leeds	Effects of aldosterone antagonism in heart failure with preserved ejection fraction: *a cardiac MRI, exercise physiology and quality of life pilot study. 1 year, 6 months*	£178,395
PG/13/83/ 30485	**Prof J A Trinick** BSc PhD	University of Leeds	Cardiac myosin binding protein-C (cMyBP-C): C-terminal segment and its interaction with titin in healthy and diseased heart. *3 years*	£178,860

PG/13/96/30608	**Dr D Adlam** BA BM BCh DPhil MRCP	University of Leicester	Spontaneous coronary artery dissection (SCAD): vascular pathophysiology, epidemiology and genetics. 2 years	£159,387
PG/13/43/30312	**Prof N P J Brindle** BSc PhD	University of Leicester	Novel ligands for the angiopoietin receptor with therapeutic potential for vascular disease. *3 years*	£165,557
PG/13/57/30385	**Prof G A Ng** MBChB PhD FRCP FRCP FESC	University of Leicester	Structure-function mapping of spatial heterogeneities of the heart and their effects on sympathetic modulation of ventricular arrhythmias. *2 years*	£167,239
PG/13/95/30603	**Dr J M Willets** PhD BSc	University of Leicester	G protein-coupled receptor kinase- and arrestin-dependent mechanisms controlling cell migratory and proliferative responses of arterial smooth muscle. *2 years*	£125,751
PG/14/19/30751	**Dr G Wang** MBChB MD PhD	University of Liverpool	The role of circulating histones in the cardiac dysfunction of sepsis. *3 years*	£143,240
PG/14/1/30549	**Prof G C Cossu** MD	University of Manchester	Fate and potency of pericytes in the development and the repair of the heart. *3 years*	£236,825
PG/13/99/30233	**Dr G M Morris** BA MA BMBCh MRCP PhD	University of Manchester	Use of I_f blockade to assess the contribution of sinoatrial node electrical remodelling to the resting bradycardia of endurance athletes: potential insights into the aetiology of acquired sick sinus syndrome. *2 years*	£28,720
PG/13/69/30454	**Dr G Richardson** BSc PhD	University of Newcastle upon Tyne	Cardiomyocyte regeneration in non-ischaemic cardiomyopathy. *2 years*	£161,319
PG/13/85/30536	**Prof D O Bates** BSc PhD	University of Nottingham	Pathophysiology of pre-eclampsia – role of vascular growth factors. *3 years*	£213,440
PG/13/47/30337	**Prof D O Bates** BSc PhD	University of Nottingham	Anti-angiogenic VEGF isoform expression in peripheral arterial disease in type 2 diabetes. *3 years*	£248,423
PG/13/56/30383	**Dr C Antoniades** MD PhD	University of Oxford	Prediction of vein graft patency after coronary bypass surgery by vein graft biology and injury: the AdipoRedOx-CT study. 3 years	£257,972
PG/13/34/30216	**Dr C A Carr** MA DPhil	University of Oxford	Does expansion in vitro alter the ability of cardiac progenitor cells to differentiate into cardiomyocytes that have the substrate and energy metabolism of the adult heart? *3 years*	£263,586
PG/14/8/30627	**Dr R Gilbert** BSc MSc PhD	University of Oxford	Structural and functional dissection of the role of kindlin-3 in platelet aggregation. *2 years*	£110,602
PG/13/58/30397	**Prof P Leeson** PhD FRCP	University of Oxford	Myocardial characterisation of the preterm heart in adult life and impacts on exercise capacity: young adult cardiovascular health trial. *3 years*	£250,666

PG/14/13/30680	**Prof D J Paterson** MA MSc DPhil DSc	University of Oxford	Impairment of the norepinephrine re-uptake transporter in hypertension. *2 years*	£110,478
PG/14/17/30720	**Dr J Pears** BA PhD	University of Oxford	Protein ubiquitination downstream of the GPVI collagen receptor in human platelets. *2 years*	£111,373
PG/13/33/30210	**Dr J E S Schneider** PhD	University of Oxford	Assessment of non-Gaussian diffusion to improve the accuracy of structural MR imaging and computational modelling of normal and diseased hearts. *3 years*	£260,906
PG/13/76/30353	**Prof R Sitsapesan** BSc MSc PhD	University of Oxford	Mechanosensitive ion-channels in cardiac sarcoplasmic reticulum. *3 years*	£166,877
PG/14/2/30595	**Prof J A Wood** BM BCh MA DPhil	University of Oxford	Antisense oligonucleotide-mediated correction of inherited cardiomyopathy. *3 years*	£246,951
PG/13/71/30460	**Prof A Clerk** BSc PhD	University of Reading	The role of BRaf in the heart and cardiac effects vemurafenib, dabrafenib and trametinib, recently licensed cancer therapies that target BRaf and MKK1/2. *3 years*	£262,981
PG/13/93/30593	**Prof J M Gibbins** BSc PhD	University of Reading	The virtual platelet – a computational model for the complex regulation of platelet function. *1 year*	£76,100
PG/13/59/30404	**Dr L Chamberlain** BSc PhD	University of Sheffield	The use of carbon-monoxide-releasing molecules to reduce restenosis in a mouse model. *2 years*	£187,294
PG/13/55/30365	**Dr S E Francis** BSc PhD	University of Sheffield	Does endothelial interleukin 1 α or β drive inflammatory mechanisms in experimental atherosclerosis? *3 years*	£299,476
PG/13/74/30264	**Dr J Iqbal BSc** MB BS MRCP PhD	University of Sheffield	Efficacy and safety of carbon-monoxide-releasing molecules in reducing myocardial damage during acute ischaemia and reperfusion in a porcine model of reperfused acute myocardial infarction. *1 year, 6 months*	£196,218
PG/13/80/30443	**Dr H L Wilson** BSc DPhil	University of Sheffield	Mechanisms and consequences of *in vivo* targeting of IL-1 to the endothelium. *2 years*	£128,542
PG/14/7/30617	**Prof R J Plevin** BSc PhD	University of Strathclyde	Investigating novel roles for MAP kinase phosphatase-2 and vaccinia related kinase 1 in vascular smooth muscle cell cytokinesis. *2 years*	£130,442

British Heart Foundation

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