British Heart Foundation

British Heart Foundation
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British Heart Foundation

Research Grant Awards 2014/2015

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Contents

Introduction

In the year April 2014 to March 2015 the British Heart Foundation (BHF) incurred research expenditure of £81.8 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 each meet four times a year to assess applications. The members are experts in various aspects of basic and clinical cardiovascular research. Applications are sent to independent reviewers before being assessed in 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 2014-2015 the Chairs and Programme Grants Committee awarded £24.8 million to Personal Chairs, Programme Grants, Infrastructure Grants and other major projects. There were 33 chairholders (also referred to as BHF Professors) in post during the year. Each chairholder is site-visited every five years by a team of internationally renowned scientists who assess past research performance, future plans and proposed expenditure. The Fellowships Committee awarded £21 million to 76 applications and the Project Grants Committee awarded £23 million to 111 applications.

The pages that follow list BHF chairholders in post during the year and new awards made by the three research grant committees.

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, 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: 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 FETCS 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 BHF Chair of Cardiovascular Science
Held by: **Professor C Emanueli** BSc PhD

Major interests: Growth and repair of adult blood vessels: roles of stem cells and angiogenic factors.

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 MBChB PhD MA 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 FMedSci

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** MBBS BSc MA MD 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** BA 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 FMedSci

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 FRCP 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 Sir Nilesh Samani** DL BSc 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 FAHA FESC FISHR

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
Retired September 2014

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

Awards made during the year
1 April 2014 – 31 March 2015

Personal Chair

CH/15/1/31199	**Prof C Emanueli** BSc PhD	University of Bristol	The BHF Chair of Cardiovascular Science. *10 years*	£1,231,266

Fellowships

Non-clinical Fellowships

Senior Basic Science Research Fellowships

FS/15/1/31071	**Dr Y B Sun** BSc PhD	King's College London	*In situ* structural studies of the role of sarcomeric proteins in the regulation of heart muscle. *5 years*	£661,939
FS/14/17/30634	**Prof D Tyler** MSci PhD	University of Oxford	Development of hyperpolarised magnetic resonance – towards clinical translation. *5 years*	£998,797

Intermediate Basic Science Research Fellowships

FS/14/29/30896	**Dr G De Nicola** PhD	King's College London	Lamin b1 as a keystone in senescence and atherosclerosis: an interdisciplinary approach. *4 years*	£475,582
FS/14/30/30917	**Dr T Iskratsch** PhD Dipl.Ing.	King's College London	Mechano-regulation of myofibril formation and cardiac remodelling. *4 years*	£499,351
FS/14/57/31138	**Dr O Rudyk** PhD MSc	King's College London	Does redox state of PKG1α control hypoxic vasoconstriction and remodelling in the pulmonary vasculature?. *4 years*	£379,870
FS/15/2/31225	**Dr R Richardson** BSc MPhil PhD	University of Bristol	The role of inflammatory cell signalling during cardiac scar formation and regression in adult zebrafish. *4 years*	£536,838
FS/14/28/30713	**Dr X L Li** MD PhD	University of Cambridge	Identification of novel players linking inflammasome activation to cardiovascular disease. *4 years*	£468,708
FS/14/56/31049	**Dr M Crabtree** BSc PhD	University of Oxford	Novel approaches to discover new NO-redox signalling targets in cardiovascular disease. *4 years*	£485,280
FS/14/55/30806	**Dr J Hopewell** BSc MSc PhD	University of Oxford	Pharmacogenomic, genetic and trial-based studies of lipid-modifying therapies and vascular risk. *4 years*	£652,425

Immediate Postdoctoral Basic Science Research Fellowships

FS/15/3/31047	**Dr E Rog Zielinska** PhD MSc BSc	Imperial College London	Cardiac T-tubular ultrastructural remodelling in health and disease. *3 years*	£207,764

4-year PhD Studentships

FS/14/62/31288	**Prof S E Harding** BSc PhD	Imperial College London	Imperial 2nd intake 2014 – 4-year PhD Studentship (3rd) Scheme: Ms Navneet Bhogal; Ms Ana Lima; Ms Laura Moody; Ms Sara Samari. *4 years*	£639,616
FS/14/63/31290	**Prof M Avkiran** BSc PhD DSc	King's College London	KCL 2nd intake 2014 – 4-year PhD Studentship (3rd) Scheme: Ms Joy Askew; Mr Marc Lynch; Ms Jennifer Mitchell; Ms Natalie Savage. *4 years*	£628,404
FS/14/66/31293	**Prof T D Warner** BSc PhD	Queen Mary, University of London	QMUL 2nd intake 2014 – 4-year PhD Studentship (3rd) Scheme: Mr Matthew Dukinfield; Ms Olga Giannakopoulou; Ms Claire MacDougall; Ms Eleanor Ward. *4 years*	£617,308
FS/14/67/31294	**Prof P J Scambler** BSc MB ChB MD FRCPath	University College London	UCL 2nd intake 2014 – 4-year PhD Studentship (3rd) Scheme: Ms Eseelle Hendow; Ms Samantha Lawes; Ms Ariadna Navarro Aragall; Ms Stasa Taferner. *4 years*	£626,196
FS/14/59/31282	**Prof M R Bennett** BSc MBChB PhD MA FRCP FAHA FMedSci	University of Cambridge	Cambridge 2nd intake 2014 – 4-year PhD Studentship (3rd) Scheme: Ms Jessica Beeson; Mr Ross Lindsay; Mr Cai Read; Ms Jessica Rees. *4 years*	£623,584
FS/14/60/31283	**Dr M Bailey** BSc PhD	University of Edinburgh	Edinburgh 2nd intake 2014 – 4-year PhD Studentship (3rd) Scheme: Mr Benjamin Cathcart; Ms Marie-Louise Monaghan; Ms Bonnie Nicholson; Mr Richard Sulston. *4 years*	£594,936
FS/14/61/31284	**Prof R M Touyz** BSc MBBCh MSc PhD	University of Glasgow	Glasgow 2nd intake 2014 – 4-year PhD Studentship (3rd) Scheme: Ms Stephanie Anderson; Mr Peter Bowman; Ms Sinead Griffin; Mr Quentin Lachaud. *4 years*	£576,592
FS/14/64/31291	**Dr E Cartwright** BSc MSc PhD	University of Manchester	Manchester 2nd intake 2014 – 4-year PhD Studentship (3rd) Scheme: Mr Ben Clark; Ms Fatemah Jafarzadeh; Ms Kirsty Webb; Ms Violeta Trendafilova. *4 years*	£577,336
FS/14/65/31292	**Prof D R Greaves** BSc PhD	University of Oxford	Oxford 2nd intake 2014 – 4-year PhD Studentship (3rd) Scheme: Ms Jade Bailey; Ms Maria Sousa Fialho; Ms Laurienne Gardner; Ms Matilde Stefanini. *4 years*	£627,276

3-year PhD Studentships

FS/14/71/31038	**Mr M Connolly** BSc MSc	Imperial College London	RMicroRNAs, GDF-15 and myostatin regulate skeletal muscle mass in chronic heart failure and pulmonary arterial hypertension. *3 years*	£122,878
FS/14/19/30609	**Mr F Iori** MSc	Imperial College London	Novel geometric configurations for high-patency arterio-venous fistulae. *3 years*	£87,628
FS/14/21/30733	**Mr C Lynch** BSc	Imperial College London	Control of VWF function by structural elements within its A2 domain, the vicinal disulphide bond and calcium binding site. 3 years	£120,428
FS/14/44/30962	**Ms A Petri** BSc	Imperial College London	Allosteric activation of ADAMTS13. *3 years*	£117,428
FS/15/6/31298	**Mr K Farrell-Dillon** BA MSc	King's College London	Therapeutic potential of sulforaphane in protection against blood-brain barrier breakdown and inflammation in experimental stroke. *3 years*	£122,088
FS/14/34/30803	**Student to be appointed**	Newcastle University	Role of decidual leucocyte proteases in spiral artery remodelling. *3 years*	£107,467
FS/14/35/30813	**Ms A Moez** BSc	Queen's University Belfast	Does Nox4 play a key role in direct reprogramming of fibroblasts into endothelial cells and underlie their ability to promote angiogenesis?. *3 years*	£107,484
FS/14/43/30960	**Mr D Cook** BSc	University College London	The role of the brain GLP-1 system in the central nervous mechanisms controlling sympathetic activity. *3 years*	£114,039
FS/14/20/30681	**Ms C Hinze** MSc	University College London	The molecular basis of the decreased clathrin-mediated endocytosis of LDL in quiescent hepatocytes. *3 years*	£108,228
FS/14/32/30729	**Ms L Maskell** BSc	University College London	Investigating a novel regulator of cardiac hypertrophy. *3 years*	£141,980
FS/14/39/30874	**Mr J Salmon** MSc MEng	University College London	Study of haemodynamic perturbations after percutaneous valve implantation. *3 years*	£99,229
FS/14/31/31046	**Ms K Sheals** BSc MSC MBPsS	University College London	Joint BHF/CRUK Lynn MacFadyen PhD Studentship in Tobacco Control: E-cigarettes for harm reduction in people with mental illness. *3 years*	£39,137
FS/14/42/30956	**Ms A Evryviadou** BSc MSc	University of Birmingham	The role of platelet-derived microvesicles in regulating the differentiation and function of foam cell. *3 years*	£106,919
FS/15/7/31307	**Mr M Carrabba** BSc MEng	University of Bristol	Perivascular delivery of bioengineered scaffold for treatment of limb ischaemia. *3 years*	£107,139

FS/14/38/30868	**Mr M Helliwell** BSc MRes	University of Bristol	Evaluation of the roles of pore-helix residues in pharmacological inhibition of the hERG potassium channel, using structure-activity studies with drug analogues. *3 years*	£107,025
FS/14/74/31121	**Mr S Simmonds** BSc	University of Bristol	Regulation of foam cell formation, apoptosis and proliferation by Wnt signalling: implications for atherosclerosis. *1 year, 9 months*	£66,435
FS/14/37/30864	**Ms M Smith** BSc	University of Bristol	Mechanisms underlying the vascular protective effects of cAMP: actin cytoskeleton remodelling and MKL-dependent gene expression. *3 years*	£106,987
FS/14/23/30756	**Mr A Wersall** MsPharm	University of Bristol	Role of a novel protein kinase, PKN1, in regulating platelet function and thrombosis. *3 years*	£122,054
FS/14/40/30921	**Mr C Bennett** BMedSc	University of Cambridge	Cytokine receptor-like factor 3 (CRLF3): a novel target for prevention of cardiovascular events in patients with thrombocythaemia. *3 years*	£155,211
FS/14/75/31134	**Ms S Garg** BSc MSc	University of Cambridge	Do somatic mutations of an L-type Ca^{++} channel in aldosterone-producing adenomas of the adrenal indicate a novel mechanism and target for regulating aldosterone production?. *3 years*	£124,742
FS/14/68/30988	**Ms F Plain** BSc	University of Dundee	Characterisation of the cardiac palmitoyl transferase DHHC5. *3 years*	£109,439
FS/14/41/30955	**Ms F Garrod** BSc	University of Leeds	The role of Kv1.3 in the regulation of smooth muscle proliferation by carbon monoxide. *3 years*	£107,891
FS/14/22/30734	**Ms H Gaunt** BSc	University of Leeds	Piezo1-dependence of ionic currents and Ca^{2+}-release events in endothelial cells. *3 years*	£110,562
FS/15/5/31190	**Ms O Ayeni** BSc	University of Leicester	Haem regulation of arterial smooth muscle potassium channels. *3 years*	£106,971
FS/14/24/30776	**Ms A Finch** (declined) BSc	University of Leicester	Haem regulation of arterial smooth muscle potassium channels. *3 years*	£106,290
FS/14/70/31006	**Ms I Rajkovic** BSc MSc	University of Manchester	The role of the acute phase protein pentraxin-3 in vascular inflammation and angiogenesis after cerebrovascular disease. *3 years*	£117,443
FS/15/4/31184	**Mr P Aldiss** BSc	University of Nottingham	Obesity progression: its effects on epicardial adipose tissue and the therapeutic activation of beige adipocytes. *3 years*	£107,071
FS/14/36/30843	**Ms G Robinson** BMedSci	University of Nottingham	Early-life programming of the insulin-signalling pathway by maternal obesity. *3 years*	£107,226

FS/14/73/31107	**Ms A Killen** BSc	University of Oxford	Epicardial fat: a duplicitous role during heart regeneration?. *3 years*	£114,458
FS/14/33/30799	**Mr R Limbu** MSPharm	University of Reading	Investigation of the mechanisms underlying the vasodilator effects of the n-3 PUFAs (fish oils), docosahexaenoic acid (DHA) and eicosapentaenoic acid (EPA) in resistance and coronary arteries: involvement of the endothelium dependent hyperpolarisation vasodilator pathway. *3 years*	£106,956
FS/14/69/31001	**Mr G Robertson** BSc	University of St Andrews	Understanding new mechanisms of cardiac ryanodine receptor regulation by zinc. *3 years*	£107,172
FS/14/45/30967	**Mr A Bromley** MChem	University of Surrey	LDL-r-HPMA unicelles: biodegradable pre-assembled unimolecular micelles platform for lowering serum cholesterol. *3 years*	£106,747
FS/14/72/31067	**Student to be appointed**	University of York	Structural analysis of SasC, a repetitive staphylococcal biofilm-forming protein implicated in antibiotic resistance. *3 years*	£107,263

Travel Fellowships

FS/14/58/30979	**Dr J Moore** BSc PhD	Bangor University	Mechanisms of sympathoexcitation in humans. *6 months*	£7,845
FS/14/46/30907	**Dr J A B Z Zaman** MA BMBCh MRCP	Imperial College London	Defining the electrogram fingerprint of substrates that sustain persistent atrial fibrillation. *1 year*	£63,741
FS/15/14/31532	**Dr J A B Z Zaman** MA BMBCh MRCP	Imperial College London	Defining the electrogram fingerprint of substrates that sustain persistent atrial fibrillation. *1 year*	£70,928

Career Re-entry Research Fellowship

FS/14/18/130711	**Dr D Paul** MSci PhD	University of Bristol	High resolution structure determination of native cardiac actin-tropomyosin-troponin filaments ± Ca^{2+} and of myosin binding protein C bound to actin. *3 years*	£207,979

Clinical Fellowships

Intermediate Clinical Research Fellowships

FS/14/77/30913	**Dr D O Okonko** BSc MBBS MRCP PhD	King's College London	Strategies for optimal iron repletion in chronic heart failure and the mechanisms of benefit. *4 years*	£844,817
FS/14/76/30933	**Dr R S P Patel** BSc MBBS MD MRCP	University College London	Genetic and phenotypic risk factors for subsequent coronary heart disease events. *4 years*	£504,977
FS/14/78/31020	**Dr M Dweck** BSc MBChB MRCP FACC	University of Edinburgh	Modification of calcification activity and ^{18}F-fluoride positron emission tomography uptake in cardiovascular disease. *5 years*	£976,514
FS/15/8/31155	**Dr N Herring** BM BCh MA DPhil MRCP	University of Oxford	The influence of neuropeptide-Y on coronary perfusion and arrhythmogenicity. *4 years*	£657,926

Clinical Research Training Fellowships

FS/14/25/30676	**Dr J Finegold** MBBS BA MA	Imperial College London	Flow versus pressure effects of biventricular pacing: development and testing of open-access cross-modality tools for haemodynamic optimisation and response quantification, and their application to testing the resynchronisation hypothesis. *3 years*	£177,540
FS/15/12/31239	**Dr V Luther** MBBS BSc MRCP	Imperial College London	Determining the pathophysiological role of slow conduction channels identified by ripple mapping of the ventricular scar. *3 years*	£153,492
FS/14/50/30856	**Dr M Rahman** BSc MBBS BSE MRCP	Imperial College London	A human *in vivo* feeding study of the blood monocyte response to dietary lipid intake. *2 years, 9 months*	£197,636
FS/14/27/30752	**Mr M Shun-Shin** BM BCh	Imperial College London	The development and implementation of automated methods for the reproducible assessment of aortic stenosis and mitral regurgitation. *3 years*	£190,045
FS/15/13/31320	**Dr T Kaier** MD MRCP	King's College London	Characterising novel, and discovering new, biomarkers of early myocardial injury. 3 years	£229,175
FS/14/47/30794	**Student to be appointed**	University of Cambridge	Vascular inflammation imaging using somatostatin receptor positron emission tomography: the Vision Study. *2 years*	£217,747
FS/14/52/30901	**Dr L McCallum** MBChB MSc MRCP	University of Glasgow	Serum chloride – epidemiology and genetic dissection of a novel marker of cardiovascular risk. *3 years*	£187,088
FS/14/49/30838	**Dr E McGinnigle** BMSc MBChB MRCP	University of Glasgow	Assessing the contribution of microRNA to in-stent restenosis. *3 years*	£170,817
FS/15/9/31092	**Dr P Patel** MA MBBChir	University of Leeds	Targeting Shc homology 2-containing inositol 5´ phosphatase 2 to enhance vascular repair. *3 years*	£182,131

FS/15/10/31223	**Dr D Chan** BMedSci BMBS MRCP	University of Leicester	A targeted and unbiased search for biomarkers of disease progression and adverse prognosis in asymptomatic moderate-severe aortic stenosis. *3 years*	£196,151
FS/14/53/30934	**Dr S Kurmani** MA MBBChir MRCP	University of Leicester	How do activated platelets promote foam cell formation?. *3 years*	£194,162
FS/14/26/30767	**Mr M Ahmed** MRes MBChB	University of Manchester	Imaging small artery endothelial calcium signals in human obesity: Does damage to TRPV4 channel function explain endothelial dysfunction?. *3 years*	£164,007
FS/14/51/30879	**Dr A Wilsdon** BMedSci BMBS	University of Nottingham	Identifying new genes that cause congenital heart disease through copy number variant analysis. *3 years*	£222,779
FS/14/48/30828	**Dr M Frise** BM BCh MA MRCP	University of Oxford	Effects of iron deficiency and intravenous iron on human cardiorespiratory physiology. *2 years*	£145,774
FS/15/11/31233	**Dr A Liu** MBBS BSc MRCP	University of Oxford	Assessment of myocardial ischaemia and viability in coronary artery disease using novel cardiac magnetic resonance imaging T1-mapping techniques. *3 years*	£238,126
FS/14/54/30946	**Dr J Rayner** BMBCh MA	University of Oxford	The effects of obesity and weight loss in heart failure, imaging the obesity paradox using magnetic resonance imaging and spectroscopy. *3 years*	£288,409

Infrastructure Grants

IG/14/4/31172	**Prof M Mayr** MD FPhD	King's College London	Funding towards equipment for the Cardiovascular Proteomics Facility. *1 year*	£676,416
IG/14/3/31171	**Prof P Scambler** BSc MB ChB MD FRCPath	University College London	Funding towards a multiphoton confocal microscope. *1 year*	£80,000
IG/14/2/30991	**Prof R Ascione** MD ChM FRCS	University of Bristol	Funding towards enhancing the new Translational Biomedical Centre (TBC). 1 *year*	£998,912
IG/15/1/31328	**Dr T J A Chico** MBChB MD MRCP	University of Sheffield	Funding towards a Zeiss Z.1 single plane illumination microscope (SPIM). *1 year*	£243,180

Special Project Grants

SP/15/1/31471	**Prof C Denning** BSc PhD	British Council	Gene targeted optogenetics in hPSC-cardiovascular cells for transplantation into animal models of heart dysfunction (Joint funding with BIRAX). *3 years*	£200000
SP/15/3/31473	**Prof B Péault** PhD	British Council	Pericytes from human pluripotent stem cells for cardiac regeneration (Joint funding with BIRAX). *3 years*	£200000
SP/15/2/31472	**Prof P R Riley** BSc PhD	British Council	Investigating the niche-like microenvironment of the epicardium and its role in signalling to facilitate heart regeneration (Joint funding with BIRAX). *3 years*	£200000
SP/14/2/30922	**Prof M S Marber** FRCP PhD FACC	King's College London	Understanding the interaction between p38alpha mitogen-activated protein kinase and TAB1. *4 years*	£698,519
SP/14/8/31352	**Prof P J C Chowienczyk** BSc MBBS FRCP	Medical Research Council	Ancestry and biological Informative Markers for stratification of HYpertension: the AIM HY study (Joint funding with *MRC). 5 years*	£1,100,174
SP/14/5/31349	**Prof B Davidson** BSc FRCS	Medical Research Council	UKCRC Joint Funders Tissue Directory and Coordination Centre (Joint funding with MRC). *3 years*	£100,000
SP/14/7/31351	**Prof S Plein** MRCP MD PhD	Medical Research Council	Translational hyperpolarised magnetic resonance (Joint funding with MRC). *1 years*	£536,833
SP/15/4/31535	**Prof Sir N J Samani** DL BSc MD FRCP FACC FMedSci DL	Medical Research Council	Telomere length measurement in UK Biobank: advancing understanding of biological ageing and age-related diseases (Joint funding with MRC and BBSRC). *4 years*	£619,867
SP/14/6/31350	**Prof J Wild** PhD	Medical Research Council	POLARIS: Pulmonary, Lung and Respiratory Imaging Sheffield (Joint funding with MRC). *1 year*	£963,167
SP/14/4/31123	**Prof R Jago** BSc PhD	University of Bristol	The influence of families and friends on change in physical activity, sedentary behaviour and screen-viewing from Years 1 to 6 in the B-PROACT1V cohort: finding new ways to change behaviour. *4 years, 6 months*	£538,547
SP/14/3/31114	**Prof J M Armitage** BSc MBBS FRCP FFPH	University of Oxford	ASCEND: A Study of Cardiovascular Events in Diabetes. *4 years*	£1,078,533

Clinical Study Grants

CS/14/3/31002	**Prof D Hausenloy** BSc MBChB FRCP PhD FESC FACC	University College London	Effect of Remote Ischaemic Conditioning on clinical outcomes in ST-segment elevation myocardial infarction patients undergoing Primary Percutaneous Coronary Intervention (ERIC-PPCI): a multi-centre randomised controlled clinical study. *5 years*	£1,323,857
CS/14/2/30841	**Mr M Brown** MB BCh MD PGCert FRCS	University of Leicester	The United Kingdom Aneurysm Growth Study. *5 years*	£897,630
CS/15/2/31331	**Prof S G Ray** BSc MD FACC FESC FRCP	University of Manchester	UK Early Mitral Surgery Trial . *5 years*	£1,543,819
CS/14/4/30972	**Prof P M W Bath** BSc MB BS MD FRCP FRCPath FESO FAHA FBHS	University of Nottingham	Rapid Intervention with Glyceryl trinitrate in Hypertensive stroke Trial-2 (RIGHT-2): assessment of safety and efficacy of transdermal glyceryl trinitrate, a nitric oxide donor, and of the feasibility of a multicentre ambulance-based stroke trial. *3 years*	£1,370,708
CS/15/1/31175	**Dr P R Kalra** MA MB BChir MD FRCP	University of Glasgow	Effectiveness of intravenous iron treatment vs standard care in patients with heart failure and iron deficiency: a randomised, open-label multicentre trial (IRON-MAN). *5 years*	£1,724,196

Programme Grants

RG/15/1/31165	**Prof M D Schneider** MD FMedSci FAHA FESC FISHR	Imperial College London	Dormant stem cells from adult myocardium (renewal). *4 years*	£1,000,000
RG/14/6/31144	**Prof Q Xu** MBBS MD PhD	King's College London	Vascular resident stem cells in arteriosclerosis (renewal). *5 years*	£1,122,687
RG/14/5/30893	**Prof P Deloukas** BSc PhD	Queen Mary, University of London	Genomics of coronary arthery disease. *4 years, 6 months*	£1,116,309
RG/15/3/31236	**Prof K Suzuki** MD PhD	Queen Mary, University of London	Epicardial placement of stem cells for Mending Broken Hearts. *5 years*	£782,021
RG/14/4/30736	**Prof A Gourine** PhD	University College London	Understanding *vagal control of the left ventricle. 5 years*	£1,004,924
RG/15/5/31446	**Prof C Emanueli** BSc PhD	University of Bristol	MicroRNAs in ischaemic heart disease and diabetes mellitus: from cardiac surgery to basic science (and back?). 5 years	£806,028

RG/15/4/ 31268	**Prof W Farndale** MA PhD	University of Cambridge	Collagen-like peptides: synthetic tools to investigate vascular cell function in health and disease (renewal). *3 years, 6 months*	£721,676
RG/15/2/ 31224	**Prof J M Gibbins** BSc PhD	University of Reading	The physiological importance and integration of receptor-mediated inhibitory mechanisms in platelets in health and disease (renewal). *5 years*	£1,426,158

New Horizons Grants

NH/14/1/ 30761	**Dr A Nogaret** MPhys DEA Habilitation PhD	University of Bath	Central pattern generator implant to improve cardiac function in heart failure. *3 years*	£288,862
NH/14/2/ 31074	**Dr J Taylor** MPhys PhD	University of Glasgow	Development and optimisation of synchronised 3D in vivo imaging of the embryonic and juvenile zebrafish heart. *3 years*	£162,279

Project Grants

PG/14/47/ 30912	**Dr N Pugh** BSc PhD	Anglia Ruskin University	Investigation of the physiological role of zinc in platelet activation during thrombus formation. *3 years*	£175,479
PG/14/29/ 30783	**Prof P Collins** BA MBBS MD FRCP FRCPath	Cardiff University	Characterisation and role of phospholipids in the initiation of coagulation through tissue factor. *3 years*	£165,193
PG/14/51/ 30686	**Dr P E James** BSc PhD	Cardiff University	Extracellular vesicle transport in the circulation – a missing link between adipocytes and accelerated vascular dysfunction. *3 years*	£226,891
PG/14/34/ 30835	**Prof A J Williams** BA PhD	Cardiff University	Modulating ryanodine receptor-mediated calcium release to alleviate calcium leak during diastole. *1 year, 6 months*	£106,489
PG/14/27/ 30679	**Prof I Adcock** BSc PhD	Imperial College London	The role of bromodomain-containing protein in vascular cell inflammation and proliferation in pulmonary hypertension. *3 years*	£292,177
PG/14/63/ 31036	**Dr J Ahnstrom** BSc MSc PhD	Imperial College London	Factor V as a synergistic cofactor together with protein S in the inhibition of FXa by TFPI. *3 years*	£198,242
PG/14/46/ 30911	**Prof T Brand** PhD	Imperial College London	Structure and protein-protein interaction of the popeye domain containing proteins. *3 years*	£205,946

PG/14/83/31128	**Prof T Brand** PhD	Imperial College London	Modelling human heart disease in the zebrafish: functional analysis of the zebrafish popeye domain containing genes in the heart. *3 years*	£296,341
PG/14/93/31237	**Dr A D De Simone** PhD	Imperial College London	Understanding the calcium uptake in cardiac sarcoplasmic reticulum: toward new routes to combat human dilated cardiomyopathy. *3 years*	£198,531
PG/14/68/30798	**Prof D Firmin** PhD	Imperial College London	*In vivo* cardiac diffusion tensor MRI. Experimental validation and assessment of myocardial structure-function relationships in the normal and post-infarct remodelled heart. *3 years*	£291,261
PG/15/7/31235	**Prof D Francis** MA MB BChir MD FRCP	Imperial College London	Statin side effect or not? A patient-empowering within-subject randomised controlled trial and development of a practical technology to support 21st century primary prevention decisions. *3 years*	£289,669
PG/14/44/30890	**Dr V Kooij** PhD	Imperial College London	Profilin-1, a critical mediator of cardiac performance. *2 years*	£140,552
PG/14/37/30855	**Prof D A Lane** BA PhD	Imperial College London	The SHBG domain of protein S: its role as a functional regulator of the TFPI anticoagulant pathway. *3 years*	£192,174
PG/14/87/31181	**Prof D A Lane** BA PhD	Imperial College London	The spacer-CUB domain interaction and its importance in controlling the action of ADAMTS13 against von Willebrand Factor. *3 years*	£200,840
PG/14/45/30906	**Prof J C Mason** PhD FRCP	Imperial College London	Investigation of the molecular mechanisms underlying PKCε-mediated modulation of NF-κB signalling to selectively promote vascular endothelial homeostasis. *3 years*	£236,972
PG/14/91/31222	**Dr T McKinnon** BSc PhD	Imperial College London	Characterising the interaction of von Willebrand Factor with TREML-1 and its role in haemostasis and thrombosis. *2 years, 5 months*	£170,044
PG/15/20/31339	**Dr F S Ng** BSc MBBS MRCP PhD	Imperial College London	Predicting sudden arrhythmic death: electrophysiological phenotyping to define the clinical signatures of risk in the inherited cardiac conditions. *2 years, 6 months*	£240,512
PG/14/90/31219	**Dr I Salles-Crawley** BSc MSc PhD	Imperial College London	The role of endothelial BAMBI in haemostasis and thrombus stability. *2 years*	£139,886
PG/14/56/30976	**Prof J Scott** BSc MSc MB BS FRCP CBiol FIBiol FMedSci FRS	Imperial College London	The role of perturbed nitric oxide signalling in disruption of the neurovascular unit of the blood brain barrier by environmental and genetic risk factors for Alzheimer's disease. *3 years*	£259,115

PG/14/23/30723	**Prof C M N Terracciano** MD PhD	Imperial College London	Mechanosensitivity of the failing myocardium: role of mechanical unloading. *3 years*	£260,617
PG/14/88/31183	**Dr L Zhao** MD PhD	Imperial College London	Assessment of pulmonary vascular remodelling and right ventricular hypertrophy using Arg-Gly-Asp radioligand positron emission tomography. *3 years*	£248,763
PG/15/8/31130	**Dr O Aslanidi** PhD	King's College London	Dissecting multifactorial mechanisms of atrial fibrillation: predictive modelling framework for evaluating medical treatments. *3 years*	£190,956
PG/14/66/30927	**Dr M Bishop** MPhys DPhil	King's College London	Investigating the mechanisms of low-voltage defibrillation and its application to the human ventricle to facilitate its translation into the clinic. *2 years*	£161,287
PG/15/27/31374	**Dr A C Brewer** BSc PhD	King's College London	Promoting cardiac proliferation within the adult mammalian heart by pharmacological inhibition of DUSP6- and GSK3ß-dependent signalling. *3 years*	£232,059
PG/14/52/30873	**Prof P J C Chowienczyk** BSc MBBS FRCP	King's College London	Mechanisms leading to an impairment of vascular homeostasis during acute stress: interaction between sympathetic activity and neuronal nitric oxide synthase. *3 years*	£198,117
PG/15/26/31373	**Prof P Eaton** BSc PhD	King's College London	Expanding our understanding of the redox regulation of soluble epoxide hydrolase in cardiovascular health and disease. *3 years*	£250,143
PG/15/22/31360	**Dr M C Pfuhl** PhD	King's College London	Unravelling the mystery of the hierarchical phosphorylation of MyBP-C and its importance for differential interactions with actin and myosin. *3 years*	£287,168
PG/15/3/31226	**Dr L Zeng** PhD	King's College London	The role of histone deacetylase 7-derived peptides in mobilisation and differentiation of vascular progenitor cells. *3 years*	£243,976
PG/14/30/30784	**Prof M Y Alexander** BSc PhD	Manchester Metropolitan University	Investigating the role of RANKL signalling and glycation in vascular calcification and the potential for anti-calcification strategies. *3 years*	£195,469
PG/14/25/30726	**Dr B Nichols** BSc PhD	Medical Research Council	Functions of endothelial caveolae. *3 years*	£223,903
PG/15/1/31217	**Dr M S Pearce** BSc MSc PhD	Newcastle University	Radiation doses and associated risks from cardiac catheterisations in children and young adults. *2 years*	£89,819
PG/15/4/1178	**Prof I Spyridopoulos** MD	Newcastle University	Targeting the sphingosine-1 phosphate pathway to reduce myocardial ischaemia / reperfusion injury. *2 years*	£113,430
PG/14/86/31177	**Prof H M Arthur** BSc PhD	Newcastle University	Endothelial endoglin is required to maintain normal cardiac function in adult life. *3 years*	£248,861

PG/14/84/31136	**Prof F Marelli Berg** MD PhD	Queen Mary, University of London	Modulation of T cell function by proton channels: exploring a new route to 'manageable' immunosuppression. *3 years*	£243,399
PG/14/62/31034	**Prof S Nourshargh** BSc PhD FMedSci	Queen Mary, University of London	An investigation into the role of TNF in neutrophil-mediated microvascular plasma protein leakage. *3 years*	£215,864
PG/14/89/31194	**Prof S E P Petersen** MD DPhil MPH FRCP FESC FACC	Queen Mary, University of London	Creation of cardiovascular magnetic resonance imaging reference standard for the UK Biobank imaging resource. *3 years*	£154,090
PG/14/48/30916	**Prof T D Warner** BSc PhD	Queen Mary, University of London	Vascular roles of HpETE/HETEs produced by platelet COX and LOX enzymes. *2 years*	£157,218
PG/15/11/31279	**Dr Q Xiao** BSc MD PhD	Queen Mary, University of London	Functional roles of hnRNPA1 in vascular smooth muscle cell phenotype modulation and neointima hyperplasia. *3 years*	£237,031
PG/14/78/31099	**Dr D Grieve** BSc PhD	Queen's University Belfast	Influence of NOX4 NADPH oxidase on outgrowth endothelial cell function and their ability to promote angiogenesis in tissue ischaemia. *3 years*	£216,538
PG/15/18/31333	**Dr D Grieve** BSc PhD	Queen's University Belfast	Endothelial NOX2 NADPH oxidase as a key driver of adverse cardiac remodelling associated with diabetes. *3 years*	£288,416
PG/15/13/31296	**Dr I Orriss** BSc PhD	Royal Veterinary College, University of London	Extracellular nucleotides and the P2Y2 receptor: potential targets for the inhibition of vascular calcification. *2 years*	£167,433
PG/14/77/31089	**Dr E Behr** MA MBBS MD FRCP	St George's, University of London	Exome sequencing to discover new causative genes for TAAD (thoracic aortic aneurysm and dissection). *2 years*	£124,542
PG/14/57/30992	**Prof I Greenwood** BSc PhD	St George's, University of London	Defining the role of phosphatidyl 4, 5 bisphosphate on arterial calcium-activated chloride channels. *3 years*	£189,585
PG/15/19/31336	**Dr C M Nightingale** BSc MSc PhD	St George's, University of London	Body fatness, overweight and obesity in UK South Asian and black African children and adolescents: accurately assessing current patterns and recent time trends and providing improved body mass index (BMI) thresholds for diagnosis of overweight and obesity. *2 years*	£107,786
PG/14/76/31087	**Prof D F Cutler** BSc PhD	University College London	A novel high-throughput morphometrical analysis of blood outgrowth endothelial cells to determine the role of Weibel-Palade bodies in a variety of bleeding disorders. *3 years*	£211,990
PG/14/81/31119	**Prof C Ruhrberg** PhD	University College London	Defining the role of neuropilin 1 (NRP1) in vascular permeability. *1 year*	£99,855

PG/14/35/30837	**Prof P Scambler** BSc MB ChB MD FRCPath	University College London	CXCL12 in coronary artery and cardiac development. *3 years*	£266,828
PG/15/6/31211	**Prof P Scambler** BSc MB ChB MD FRCPath	University College London	Regulation of transcription and variant histone deposition by HIRA during heart development. *3 years*	£230,624
PG/14/40/30870	**Dr G Bewick** BSc PhD	University of Aberdeen	Probing a novel glutamatergic mechanism in baroreceptor terminals to control hypertension. *3 years*	£208,497
PG/14/43/30889	**Dr M Delibegovic** PhD	University of Aberdeen	Effects of protein tyrosine phosphatase 1B (PTP1B) inhibition on inflammation and atherosclerosis development. *2 years, 6 months*	£236,108
PG/14/92/31234	**Dr N K Kalia** BSc PhD	University of Birmingham	Imaging stem cell recruitment within the beating murine heart *in vivo* using fluorescent intravital microscopy. *1 year*	£79,448
PG/14/36/30854	**Dr M Madhani** BSc PhD	University of Birmingham	The role of aldehyde dehydrogenase 2 (ALDH2) in the myocardial protective effects of inorganic nitrite. *3 years*	£170,351
PG/14/28/30774	**Prof G B Nash** BSc PhD	University of Birmingham	Mechanisms, optimisation and *in vivo* application of the vascular protective effects of mesenchymal stem cells. *3 years*	£175,167
PG/14/74/31056	**Dr R Steeds** MA MD FRCP FESC	University of Birmingham	A prospective observational study examining the role of myocardial fibrosis in outcome following mitral valve repair in degenerative mitral regurgitation. *3 years*	£229,315
PG/14/72/31080	**Prof G D Angelini** MD MCh FRCS FETCS FMedSci	University of Bristol	Cortisol profiles in the critically ill after cardiac surgery. *1 year*	£85,990
PG/14/82/31126	**Dr M Bond** BSc PhD	University of Bristol	Harnessing the vascular protective effects of CREB: the SIK-CRTC-CREB pathway as a therapeutic target. *3 years*	£208,973
PG/15/33/31394	**Prof M Caputo** MD MCh FRCS	University of Bristol	The cardio-protective efficacy of cardioplegic solution supplemented with Sildenafil in neonatal pig model of cardiopulmonary bypass and cardioplegic arrest. *2 years*	£193,500
PG/14/49/30876	**Prof S J George** BSc PhD	University of Bristol	Translational potential of N-cadherin peptide mimics for reducing intimal thickening. *3 years*	£131,781
PG/14/67/31030	**Prof S J George** BSc PhD	University of Bristol	Role of WISP-1 (CCN4) in aneurysms. *3 years*	£129,336
PG/14/21/30673	**Prof J C Hancox** BSc PhD FSB FBPhS	University of Bristol	Elucidating the basis of cholinergic modulation of electrophysiology of the atrioventricular node. *1 year*	£90,110
PG/14/61/31015	**Prof J C Hancox** BSc PhD FSB FBPhS	University of Bristol	New pathogenic mechanisms in the long QT sydrome: KCNE1 modulation of hERG. *2 years, 6 months*	£186,836

PG/14/42/30886	**Prof J C Hancox** BSc PhD FSB FBPhS	University of Bristol	IP3 receptor modulation of the atrioventricular node. *2 years*	£214,589
PG/14/60/31014	**Prof J Henley** BSc PhD	University of Bristol	Protective mechanisms of protein SUMOylation in the heart. *3 years*	£282,650
PG/15/30/31390	**Dr J L Johnson** MSc PhD	University of Bristol	MMP-12 inhibition as a therapy for abdominal aortic aneurysm formation and progression. *2 years*	£148,358
PG/15/32/31398	**Prof P Madeddu** MD	University of Bristol	Neonatal cardiac pericytes engineered grafts for correction of congenital heart defects. *3 years*	£179,569
PG/15/14/31311	**Dr A M O'Carroll** BA PhD	University of Bristol	Unravelling the role of the apelin-apelin receptor system in essential hypertension. *3 years*	£225,955
PG/14/65/31055	**Prof C H Orchard** BSc PhD DSc	University of Bristol	Role of cardiac T-tubules in Ca regulation and arrhythmogenesis. *3 years*	£155,799
PG/15/12/31280	**Dr F Buss** PhD	University of Cambridge	Myosin VI as a novel regulator of cardiac autophagy – a potential target for the treatment of heart failure triggered by autophagic cell death. *3 years*	£221,176
PG/14/79/31102	**Dr A P Jackson** MA PhD	University of Cambridge	The sodium channel β3-subunit, sodium channel clusters and cardiac arrhythmias. *3 years*	£208,909
PG/14/20/30769	**Prof S E Ozanne** BSc PhD	University of Cambridge	Programming offspring cardiac dysfunction by maternal diet-induced obesity – exploring the role of miRNAs. *3 years*	£219,929
PG/14/31/30786	**Dr A Rana** BSc MA PhD	University of Cambridge	Development of induced pluripotent stem cell models to elucidate mechanisms and develop treatments for pulmonary arterial hypertension. *3 years*	£264,531
PG/14/69/31032	**Dr E P K Yu** MA PhD MRCP	University of Cambridge	Mitochondrial dysfunction, inflammation and treatment in atherosclerosis. *3 years*	£194,537
PG/15/28/31384	**Prof A J Jovanovic** MD PhD	University of Dundee	IES SUR2B-mediated cardioprotection. *3 years*	£170,346
PG/14/75/31083	**Dr M D Witham** BA BM BCh **FRCP PhD**	University of Dundee	Vitamin K therapy to improve vascular health in patients with chronic kidney disease – a randomised controlled trial. *2 years, 9 months*	£289,870
PG/14/53/30900	**Dr S Pyner** BSc PhD	University of Durham	Molecular characterisation of atrial volume receptors in the atria of the rat heart. *3 years*	£177,614
PG/15/25/31369	**Dr S Robinson** PhD	University of East Anglia	Deciphering the angiogenic tug-of-war between neuropilin-1 interacting integrins. *1 year*	£87,417
PG/15/10/31277	**Dr P Hadoke** BSc PhD	University of Edinburgh	11ß-hydroxysteroid dehydrogenase type 1 inhibition as a novel treatment for peripheral arterial disease. *3 years*	£295,990

PG/15/29/31388	**Prof N Hastie (CBE)** BSc PhD	University of Edinburgh	Dissecting the functional role of novel Wt1 regulated pathways during epicardium development and heart repair. *3 years*	£297,551
PG/14/50/30891	**Prof R Salman** MA MB BChir PhD FRCP	University of Edinburgh	PRIME-RESTART: Promoting Recruitment using Information Management Efficiently (PRIME) for randomised controlled trials of secondary prevention after stroke, piloted using the REstart or STop Antithrombotics Randomised Trial (RESTART). *2 years*	£109,321
PG/15/23/31362	**Dr R Weller** MD FRCP	University of Edinburgh	A trial of daily ultraviolet therapy to reduce cardiovascular risk factors. *3 years*	£252,384
PG/14/64/31043	**Prof C Berry** BSc MB ChB PhD FRCP FRCP FACC	University of Glasgow	First steps towards computed modelling of myocardial infarction (an MI physiome): a case-control study of novel biomechanical parameters in acute MI survivors with left ventricular dysfunction. *2 years*	£104,456
PG/14/97/31263	**Prof K G Oldroyd** MBChB MD FRCP	University of Glasgow	A prospective comparison of the diagnostic utility of invasive coronary physiological indices and quantitative perfusion MRI in patients with coronary heart disease and indeterminate (grey-zone) fractional flow reserve values. *2 years*	£224,443
PG/14/32/30812	**Prof T M Palmer** BSc PhD	University of Glasgow	Suppression of IL-6 trans signalling by BMP4: a 'missing link' in the development of pulmonary arterial hypertension?. *3 years*	£207,207
PG/15/15/31316	**Dr S Yarwood** BSc PhD	University of Glasgow	Regulation of anti-inflammatory gene expression in vascular endothelial cells by EPAC1. *3 years*	£220,852
PG/14/73/30953	**Dr A Snabaitis** BSc PhD	University of Kingston	Regulation of cardiac apoptosis and heart failure by the type 2A protein phosphatase regulatory protein alpha4. *3 years*	£271,280
PG/14/54/30939	**Prof M T Kearney** MB ChB FRCP DM	University of Leeds	Targeting Nox2 NADPH oxidase in insulin resistance related atherosclerosis and oxidative stress. *3 years*	£277,837
PG/15/2/31208	**Prof M Peckham** BSc PhD	University of Leeds	Understanding how mutations in subfragment-2 of beta-cardiac myosin heavy chain contribute to hypertrophic cardiomyopathy. *3 years*	£208,184
PG/14/94/31243	**Prof A H Gershlick** MBBS FRCP	University of Leicester	A project assessing the *in vivo* properties of a prolyl hydroxylase inhibitor FG-2216-eluting stent on angiogenesis in an animal model. *1 year, 6 months*	£145,372
PG/14/55/30973	**Dr C Dart** BSc DPhil	University of Liverpool	Towards understanding cAMP signalling in the vasculature: spatio-temporal activation of PKA and Epac by physiological vasodilators. *3 years*	£182,478
PG/15/16/31330	**Prof M R B Boyett** BSc PhD FSB FRCP	University of Manchester	Why do bradyarrhythmias occur at night? An intrinsic circadian clock in the cardiac conduction system?. *3 years*	£214,177

PG/14/24/30626	**Prof M R B Boyett** BSc PhD FSB FRCP	University of Manchester	Molecular mechanisms underlying exercise training-induced arrhythmias. *3 years*	£177,684
PG/14/22/30714	**Prof M Gurney** BSc PhD	University of Manchester	Exploring Kv7 channels as a therapeutic target in pulmonary hypertension. *3 years*	£253,312
PG/14/70/31039	**Dr X Wang** MB ChB PhD	University of Manchester	Investigating a new endoplasmic reticulum-centred cardioprotection mechanism. *3 years*	£214,265
PG/14/71/31063	**Dr X Wang** MB ChB PhD	University of Manchester	A novel mechanism of epigenetic regulation of potassium channels: Is class I histone deacetylation inhibition a new treatment option for ventricular arrhythmias?. *3 years*	£174,502
PG/14/59/31000	**Prof C Denning** BSc PhD	University of Nottingham	Deep molecular phenotyping of myotonic dystrophy (DM1) hiPSC-cardiomyocytes to facilitate risk stratification and drug evaluation. *3 years*	£299,933
PG/14/96/31262	**Dr R Dineen** BMedSci BMBS MRCP FRCR PhD	University of Nottingham	MRI evaluation of effects of tranexamic acid in spontaneous intracerebral haemorrhage: the TICH-2 MRI study. *2 years, 6 months*	£298,962
PG/14/95/31248	**Dr J Woolard** PhD MSc BSc	University of Nottingham	Quantitative evaluation of the cardiovascular effects of two allosteric enhancers of the adenosine A1-receptor that differentially alter efficacy and affinity. *3 years*	£239,829
PG/14/58/30998	**Prof K A Dora** BSc PhD MA	University of Oxford	Investigation of endothelial cell signalling in freshly isolated tubes. *3 years*	£169,776
PG/14/80/31106	**Dr M Lei** BSc MM DPhil	University of Oxford	Modulation of electrophysiology, Ca^{2+} handling and arrhythmic susceptibility in the atria in mice with cardiomyocyte-specific deletion of P21 activated kinase-1. *3 years*	£190,124
PG/14/26/30509	**Dr T Parks** BA MB BChir MRCP	University of Oxford	Genetic susceptibility to rheumatic heart disease. *2 years*	£299,677
PG/14/41/30877	**Prof D J Paterson** MA MSc DPhil DSc	University of Oxford	A novel role for B type natriuretic peptide (BNP) and phosphodiesterase 2 in cardiac sympathetic neurons during development of hypertension. *3 years*	£297,251
PG/14/39/30865	**Prof R K Patient** BSc PhD	University of Oxford	Characterising the active subset of cardiomyocytes in regenerating adult zebrafish hearts. *3 years*	£289,123
PG/15/5/31110	**Prof M Zaccolo** MD PHD	University of Oxford	Phosphodiesterase 3 isoforms and beta-adrenergic control of cardiac myocyte function. *3 years*	£257,501
PG/15/24/31367	**Prof A Clerk** BSc PhD	University of Reading	p90 ribosomal S6 kinase 1 (RSK1) and the regulation of gene expression in pathological and physiological cardiac hypertrophy. *3 years*	£278,941

PG/15/31/31393	**Prof A Clerk** BSc PhD	University of Reading	Receptor-interacting serine-threonine kinases, RIPK1 and RIPK3, in cardiac myocyte apoptosis and necroptosis. *3 years*	£202,615
PG/15/21/31355	**Prof J M Gibbins** BSc PhD	University of Reading	Protein sumoylation in platelets: a potential new signalling paradigm in the control of haemostasis and thrombosis. *3 years*	£213,436
PG/15/17/31332	**Dr T J A Chico** MBChB MD MRCP	University of Sheffield	The effect of mutations of the ciliary proteins ift88 and ift54 on angiogenesis and mechanotransduction in zebrafish. *3 years*	£244,152
PG/14/38/30862	**Dr V Ridger** BSc PhD	University of Sheffield	Do neutrophil microvesicles play a role in atherosclerosis?. *3 years*	£222,328
PG/14/33/30827	**Prof M Hanson** MA DPhil FRCOG	University of Southampton	Assessment of LifeLab Southampton: engaging teenagers in increasing their interest in science to improve their health behaviours. *3 years*	£226,165
PG/15/9/31270	**Dr A Stewart** BSc PhD	University of St Andrews	Role of zinc in controlling histidine-rich glycoprotein complex formation: implications for the development of thrombotic complications. *3 years*	£188,250
PG/14/85/31161	**Prof J M Li** PhD MD MBBS	University of Surrey	Evaluation of the therapeutic potential of LMH001 (a novel Nox2 inhibitor) in angiotensin II-induced hypertension and vessel wall damage in mice. *3 years*	£195,241