British Heart Foundation
Research Grant Awards 2008-09

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Introduction

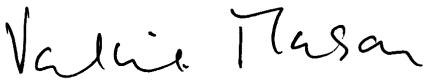
In the year April 2008 to March 2009 the British Heart Foundation (BHF) awarded grants totalling just under £80 million* for research into the causes, prevention, diagnosis and treatment of diseases of the heart and circulation.

The BHF has three research grant committees which meet four or more 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 2008-09 the Chairs and Programme Grants Committee agreed £32 million for Programme Grants and other major projects such as Special Projects and Infrastructure Grants. There were 30 chairholders (also referred to as BHF Professors) in post during the year. Each chairholder is site-visited every five years to assess past research performance and future plans. The visiting team includes internationally renowned scientists. The annual cost of maintaining BHF chairholders' core funding amounted to £6.7 million and five new Personal Chairs were awarded totalling £6.2 million to: Professor M Gautel, King's College London; Professor N Morrell, University of Cambridge; Professor D Newby, University of Edinburgh; Professor M Schneider, Imperial College London; and Professor S Bhattacharya, University of Oxford. The Fellowships Committee awarded 81 applications for personal awards costing £14 million. The Project Grants Committee awarded 130 applications to the value of £23 million.

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

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



Valerie Mason
Head of Research Funds
British Heart Foundation
April 2009

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

BHF chairholders

Listed by town

University of Birmingham

The Chair of Cardiovascular Medicine
Held by: **Professor M P Frenneaux** MBBS MD FRACP FACC FRCP FESC FMedSci

Major interests: Novel medical treatments for heart failure; using pacemakers to ameliorate heart failure and improve cardiac function in hypertrophic cardiomyopathy; links between depression and heart disease.

University of Birmingham

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

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

University of Bristol

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

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

University of Bristol

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

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

University of Cambridge

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

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

University of Cambridge

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

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

University of Cardiff

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

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

University of Edinburgh

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

Major interests: Clinical trials to determine best treatment 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

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

University of Glasgow

The Walton Chair of Medical Cardiology
Held by: **Professor S M Cobbe** MA MD FRCP FESC FRSE FMedSci – retired September 2008

Major interests: Mechanisms underlying arrhythmia and sudden death; enhancing success rates for resuscitation following cardiac arrest in the community.

University of Glasgow

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

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

University of Leeds

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

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

University of Leicester

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

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

University of London
Imperial College (Hammersmith)

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.

University of London
Imperial College (Hammersmith)

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.

University of London
Imperial College (NHLI)

The Simon Marks Chair of Cardiology
Held by: **Professor P A Poole-Wilson** MD FRCP FACC FESC FMedSci – retired September 2008

Major interest: Clinical trials of novel medical treatments for heart failure.

University of London
King's College London

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

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

University of London
King's College London

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

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

University of London
King's College London

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

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

University of London
St George's

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

Major interest: Mechanisms and treatment of atrial fibrillation.

University of London
University College London

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

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

University of London
University College London

The Chair of Cardiovascular Science
Held by: **Professor J F Martin** MBChB MD FRCP FESC FMedSci – retired September 2008

Major interests: Gene therapy to control stenosis in grafted blood vessels; stem cell therapy for patients after myocardial infarction.

University of London
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 London
University College London (Institute of Child Health)

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

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

University of Manchester

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

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

University of Newcastle

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

Major interest: Genetics of coronary heart disease.

University of Oxford

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

Major interest: Developmental biology of the heart.

University of Oxford

The Chair of Medicine and Epidemiology
Held by: **Professor R E Collins** FRCP FMedSci

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

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 2008 – 31 March 2009

Fellowships

Non-clinical Fellowships

Senior Basic Science Research Fellowships

FS/08/033/25111	**Dr K A Dora** BSc PhD	University of Oxford	Novel integrative signalling mechanisms for endothelial cell control of microvascular tone. *3 years*	£374,199
FS/09/001/26329	**Dr Y Sun** PhD	King's College London	Control of myofilament calcium-sensitivity: a key determinant of the physiology and pathology of heart muscle. *5 years*	£761,184
FS/08/062/25797	**Dr M G Tomlinson** BSc DPhil	University of Birmingham	Regulation of platelet and endothelial cell surface receptors by tetraspanin microdomains. *5 years*	£613,069

Intermediate Basic Science Research Fellowships

FS/08/016/24741	**Dr S D Bamforth** BSc PhD	University of Newcastle	Cell autonomous mechanisms in aortic arch development. *4 years*	£489,849
FS/09/005/26845	**Dr M Clarke** BSc PhD	University of Cambridge	Inflammatory consequences of vascular smooth muscle cell death in atherosclerosis. *4 years*	£406,597
FS/08/017/25027	**Dr G S Cottrell** BSc	University of Bath	Investigation of the mechanisms and functions of the post-endocytic sorting of the receptors for calcitonin gene-related peptide and adrenomedullin. *4 years*	£362,482
FS/09/002/26487	**Dr K M Dibb** BSc PhD	University of Manchester	Integrating Ca^{2+} homeostasis and t-tubule function in the atria: normal physiology and dysfunction in ageing and disease. *4 years*	£476,690
FS/08/064/26225	**Dr T He** BSc MSc PhD	Imperial College London	Magnetic resonance relaxometry for myocardial tissue characterisation. *4 years*	£239,837
FS/08/035/25309	**Dr A M Miller** BSc PhD	University of Glasgow	Interleukin-33: a novel cytokine in the inflammation of atherosclerosis and obesity? *4 years*	£252,946
FS/09/004/26805	**Dr M Nandi** BSc PhD	University College London	The role of GTP cyclohydrolase 1 feedback regulatory protein in the regulation of tetrahydrobiopterin synthesis *in vivo*. *4 years*	£331,960
FS/08/034/25085	**Dr Y A Senis** PhD	University of Birmingham	Investigating the functional roles of SH2 domain-containing protein tyrosine phosphatases in platelets. *4 years*	£384,053
FS/09/003/26551	**Dr K J Woollard** BSc PhD	King's College London	Role of monocyte subsets in atherogenesis and the mechanisms of monocyte recruitment and migration in atherothrombosis. *4 years*	£330,374
FS/08/063/25812	**Dr S Zissimopoulous** MSc PhD	University of Cardiff	Human cardiac ryanodine receptor in arrhythmias and sudden cardiac death: role of inter-subunit interactions. *4 years*	£394,027

4-year PhD Studentships

FS/08/066/26728	**Prof M Avkiran** BSc PhD DSc	King's College London	5th intake 2008-09 4-year PhD Studentship scheme: Mr Jason Kei Chak Mak; Mr Joseph Dwyer; Mr Christopher Jenkins. *4 years*	£360,318
FS/08/067/26729	**Dr D R Greaves** BSc PhD	University of Oxford	5th intake 2008-09 4-year PhD Studentship scheme: Mr Henrik Isackson; Ms Ivy Christou; Mr Michael Dodd. *4 years*	£363,417
FS/08/065/26727	**Prof J J Mullins** PhD	University of Edinburgh	5th intake 2008-09 4-year PhD Studentship scheme: Ms Ewa Rog-Zielinska; Ms Emma Di Rollo; Mr James Catterson. *4 years*	£334,524

3-year PhD Studentships

FS/08/021/24534	**Mr I Adeniran** BEng PGCE MSc	University of Manchester	Defining the substrates for arrhythmia in the short QT syndrome. *3 years*	£80,297
FS/08/045/25508	**Mr Y Bhagatte** BSc	University of Leicester	Cellular regulation of mitochondrial permeability transition pore opening during cardiac muscle stress. *3 years*	£86,578
FS/08/022/24946	**Miss A Brock** BSc MSc	St George's, University of London	Ethnic differences in dietary patterns in children and their contribution to emerging differences in cardiovascular disease and type 2 diabetes. *3 years*	£98,736
FS/08/039/25250	**Ms C L S Burns** BSc	University of Bristol	The identification, role and regulation of the mammalian mitochondrial pyruvate carrier. *3 years*	£81,043
FS/09/008/26431	**Mr C Capelli** MEng	University College London	Outflow tract rapid prototyping models for pre-clinical testing of percutaneous valve implantation devices. *3 years*	£95,156
FS/08/057/25816	**Mr J Chidgey** BSc	King's College London	The role of reactive oxygen species in the EDHF response. *3 years*	£96,791
FS/08/070/25933	**Ms R Cretella** BSc	University of Glasgow	Theoretical modelling and predictive analysis of cytokine receptor signalling and its inhibitory regulation in vascular endothelial cells. *3 years*	£84,628
FS/08/049/25665	**Mr C Davies** BMedSc MBChB	University of Birmingham	The role of oxygen-dependent substances in exercise. *3 years*	£92,518
FS/09/010/26488	**Ms K Di Gregoli** BSc MSc	University of Bristol	The role and regulation of matrix metalloproteinase, MMP-14, in monocytes, macrophages and foam cells. *1 year 9 months*	£63,222
FS/08/040/25358	**Miss L C Elson** BA	University of Oxford	Regulation of calcium dynamics and contractility of cardiac ventricular myocytes by cyclic ADP-Ribose phosphate in health and disease. *3 years*	£98,938
FS/08/055/25799	**Mr R Endrighi** BSc MSc	University College London	Physical activity, adiposity, stress-induced inflammation and cardiovascular disease risk. *3 years*	£98,112

3-year PhD Studentships (continued)

FS/08/048/25628	**Ms H Exeter** BSc	University College London	Genetic architecture of secretory PLA2 (sPLA2) genes and their impact on sPLA2 activity and mass and association with coronary heart disease risk. *3 years*	£100,291
FS/08/046/25514	**Ms R Fujita** BSc	University College London	Analysing the co-expression and effects of POU4F1/Brn-3a transcription factor and p53 family in the heart. *3 years*	£108,718
FS/08/069/25929	**Ms E Galfre** BSc	University of Bristol	Functional investigations of the trans-membrane domains of the cardiac ryanodine receptor. *3 years*	£93,088
FS/08/044/25498	**Ms K Garner** BA	University College London	Angiotensin-II mediated signalling: is phosphatidylinositol transport an essential component for signal transduction? *3 years*	£100,911
FS/08/025/24765	**Miss D Gruszka** MSc	University of York	Structural and functional studies of a Staphylococcus aureus protein involved in biofilm formation. *3 years*	£87,172
FS/08/041/25377	**Mr K Ho Ho** BSc	University of Strathclyde	Characterising the role of inhibitory kappa B kinase α in human endothelial cell function. *3 years*	£92,327
FS/08/019/24776	**Miss C Kleinert** BSc MSc	Imperial College London	Mechanisms of myocardial insulin resistance in patients with T2DM or LVD and characterisation of the effects of insulin resistance on cardiac gene expression. *3 years*	£97,939
FS/09/012/26696	**Mr B C Lechtenberg** BSc MSc	University of Cambridge	NMR studies on thrombin allostery and interactions. *3 years*	£101,583
FS/09/011/26562	**Mrs L Lloyd** BSc	University of Nottingham	The effect of a maternal low-protein diet on renal development and function in sheep. *3 years*	£103,918
FS/08/053/25850	**Mr G Mangialardi** MD	University of Bristol	Diabetes impairs bone marrow endothelial barrier function and trans-endothelial migration of stem cells. *3 years*	£93,033
FS/08/043/25495	**Mr G Masset** MSc	University College London	Food nutrient profiling and cardiovascular disease related outcomes: the Whitehall II study. *3 years*	£77,039
FS/08/052/25760	**Mr M McArdle** MNatSci	University of Leeds	Regulation of the gene expression in vascular proliferative disease. *3 years*	£94,877
FS/08/042/25378	**Miss C Mill** MSci	University of Bristol	Diversion of β-catenin from TCF to FoxO-mediated transcription by oxidative stress promotes VSMC apoptosis. *3 years*	£91,600
FS/08/024/25087	**Ms J Mok** BSc	University of Bristol	Involvement of the vitamin D pathway in plaque development. *3 years*	£92,225
FS/08/037/25261	**Ms A Monkeviciute** BSc MSc	University of Glasgow	Dissecting microRNA regulation of gene expression in cardiac hypertrophy in the SHRSP. *3 years*	£92,848
FS/08/023/25089	**Mr C Nash** BSc	University of Birmingham	Investigation of the role of the adapter Dok-3 in platelets and megakaryocytes. *3 years*	£106,308

3-year PhD Studentships (continued)

FS/08/050/25667	**Ms L Newell** BSc	University of Bristol	Roles of blood clotting factor XIIIA and of fibrin in the stabilisation and repair of atherosclerotic plaques. *3 years*	£90,665
FS/08/056/25802	**Mr A Patel** BSc	University of Reading	The regulation of cytoskeleton and adhesion complex dynamics in migrating trophoblast cells by nitric oxide. *3 years*	£93,430
FS/08/051/25748	**Mr A Prickett** BSc	King's College London	Epigenetic mechanisms in heart development and disease. *3 years*	£98,039
FS/08/068/25798	**Mr W Rook** BMedSci	University of Birmingham	The effects of hypoxia *in utero* on sympathetic vasoconstriction in the offspring. *3 years*	£101,240
FS/09/009/26444	**Mr J S Savage** BSc	University of Bristol	Mechanisms underlying paradoxical thrombosis in patients treated with platelet integrin $\alpha_{II}\beta_3$ antagonists: adhesion receptor cross-talk in platelets. *3 years*	£95,166
FS/08/054/25793	**Ms R Tahiri** BSc	University College London	Role of stanniocalcin in VEGF regulation of endothelial cell function. *3 years*	£99,139
FS/08/047/25622	**Ms J Tucka** BSc MPhil	University of Cambridge	Regulation of vascular smooth muscle cell survival by the Akt pathway. *3 years*	£96,150
FS/08/038/25262	**Mr G Whiteley** BSc MSc	University of Manchester	Molecular investigations into the interaction between caveolin-3 and cardiac L-type voltage-gated calcium channels. *3 years*	£89,838
FS/08/020/24941	**Ms C Wirrig** BSc	University of Aberdeen	The importance of sphingolipids in the development of cerebral artery vasospasm. *3 years*	£92,548
FS/08/018/24761	**Ms J Withall** BSc MSc	University of Bristol	Can community-based social marketing increase recruitment and retention of low-income groups into local health programmes? *3 years*	£73,913
FS/09/015/26934	Student to be appointed	University of Newcastle	Cardiovascular development following loss of Tcfap2a from the neural crest. *3 years*	£97,925
FS/09/014/26933	Student to be appointed	University of Newcastle	Interaction of planar cell polarity and inversin signalling in congenital heart disease. *3 years*	£97,956
FS/08/071/26212	Student to be appointed	University of Glasgow	Involvement of chlorinated lipids in neointima formation. *3 years*	£89,678
FS/09/013/26804	Student to be appointed	University of East Anglia	The role of KIhl31, a novel Wnt antagonist, in cardiogenesis. *3 years*	£95,491
FS/09/007/26170	Student to be appointed	University of Nottingham	An investigation into the pharmacological effects of phytocannabinoids and endogenous cannabinoids in human arteries. *3 years*	£90,939

Advanced Training Award

FS/08/036/25364	**Dr R Akhtar** MEng PhD	University of Manchester	Quantifying arterial stiffness as a function of glucose tolerance: from the nano to macro scale. *3 years*	£133,816

Travel Fellowships

FS/09/006/26031	**Dr S Pyner** BSc PhD	University of Durham	The role of the brain and renal sympathetic nerve activity in the development of heart failure. *4 months*	£6,800
FS/09/018/26963	**Dr T V Salukhe** BSc MBBS MRCP	Imperial College London	Critical endpoints for chronic AF ablation: a prospective randomised study. *1 year*	£59,145

Clinical Fellowships

Intermediate Clinical Research Fellowship

FS/09/016/26697	**Dr E M Freel** BSc MBChB MRCP PhD	University of Glasgow	Cardiovascular disease: investigating the expanding role of aldosterone. *5 years*	£461,562

Clinical Research Training Fellowships

FS/08/075/26285	**Dr R Ahmed** MRCP	Imperial College London	Coronary flow: genetic determinants in the rat and relationship to myocardial infarct size in rats and humans. *3 years*	£192,370
FS/08/073/26182	**Dr E Amirak** BSc MBBS MRCS	Imperial College London	Activation of p90-ribosomal S6 kinases (RSKs) in perfused hearts and their role in regulation cardiac gene expression. *3 years*	£180,850
FS/08/031/25086	**Dr R Badiger** BSc MSc MBBS	Imperial College London	Role of viral pattern recognition receptors in ET-1 and cytokine release by pulmonary vascular cells: relevance to pulmonary hypertension. *2 years*	£125,344
FS/08/074/26233	**Dr R Banerjee** MA MBChB MRCP	University of Oxford	The effects of overweight, obesity and weight loss on cardiovascular function and metabolism. *3 years*	£261,879
FS/09/019/26905	**Dr G Barnes** BMedSci MBChB MRCP	University of Edinburgh	Cardiovascular effects of apelin in heart failure: interaction with the renin-angiotensin system. *3 years*	£179,912
FS/08/029/24769	**Dr E H Berger** MBBS MA MRCP	Imperial College London	A drop in the ocean – from calcium waves to arrhythmia. *2 years*	£114,900
FS/08/060/25624	**Dr T T Biss** BMedSci MBBS MRCP	University of Newcastle	Inter-individual variability in response to warfarin in children: analysis of environmental and pharmacogenetic factors. *2 years*	£125,655
FS/08/072/25507	**Dr N G S Campbell** BSc MRCP	Queen Mary, University of London	Different types of adult stem/progenitor cells and their early interactions with endothelial cells following intracoronary injection. *3 years*	£200,711

Clinical Research Training Fellowships (continued)

FS/08/028/24767	**Dr A Flett** BSc MBBS MRCP	University College London	The development and clinical application of quantifying diffuse myocardial fibrosis using equilibrium contrast cardiovascular magnetic resonance. *2 years*	£123,292
FS/09/017/26810	**Dr T L Gatheral** MB BChir MA MRCP	Imperial College London	Mechanisms of NOD1-induced inflammation in vascular tissue. *3 years*	£179,383
FS/08/061/25740	**Dr A G Hameed** BSc BM MRCP	University of Sheffield	Dissecting the role of TRAIL in the pathogenesis of pulmonary hypertension. *3 years*	£172,627
FS/08/059/25362	**Dr M Kahn** BSc MBBS MRCP	University of Leeds	Investigating the effects of insulin resistance on endothelial progenitor cells and vascular repair. *3 years*	£162,526
FS/08/027/24763	**Dr A L Kyriacou** MBChB MRCP	Imperial College London	Maximising clinical applicability of non-invasive methods for optimisation of cardiac pacemakers and effect of optimisation on cardiac efficiency. *3 years*	£207,083
FS/08/058/25305	**Dr T P E Lockie** BSc MBChB	King's College London	Post-conditioning in acute myocardial infarction: a randomised control trial. *2 years*	£160,682
FS/08/030/24993	**Dr R K Patel** BSc MBChB MRCP	University of Glasgow	Prognostic value of microvolt T wave alternans, uraemic cardiomyopathy, and QT dispersion in end-stage renal failure patients. *2 years*	£113,292
FS/08/077/26366	**Dr A Pitcher** BA BM BCh MRCP	University of Oxford	Novel markers of vascular pathology in Marfan syndrome, based on advanced cardiovascular magnetic resonance techniques. *3 years*	£231,489
FS/08/076/26287	**Dr M J Prasai** BA BM BCh	University of Leeds	Exploring the effect of the molecular clock on endothelial function: studies in mice with endothelial-specific, inducible mutation of clock. *3 years*	£163,692
FS/08/026/24762	**Dr K E Robertson** BSc MBChB MRCP	University of Glasgow	Optimisation and analysis of integrating and non-integrating lentiviruses for vascular gene transfer *in vivo* – application to in-stent restenosis with delivery of Nogo-B. *3 years*	£148,557

Marian and Christina Ionescu Fellowship for Cardiac Surgery

FS/08/032/23332	**Miss A P Barker** MBChB BMSc	University of Cambridge	*Ex-vivo* perfusion strategies for optimisation of donor heart and lung function in intra-thoracic organ transplantation. *2 years*	£67,388

Strategic Initiative Grant

SI/08/002/26401	**Prof A F Dominiczak** OBE MD FRCP FAHA FRSE FMedSci	University of Glasgow	A 3 tesla cardiac magnetic resonance imaging facility	£1,500,000

Infrastructure Grants

IG/09/001/26440	**Prof D O Haskard** DM FRCP FMedSci	Imperial College London	Funds for the purchase, maintenance and installation of angiography equipment in a new pre-clinical imaging facility	£955,000
IG/08/002/25838	**Prof S Neubauer** MD FRCP	University of Oxford	A new 1.5 tesla MR scanner for clinical research in cardiovascular disease	£500,000
IG/08/003/26357	**Prof A M Shah** MD FRCP FESC FMedSci	King's College London	Funding towards core specialist cell biological equipment for the Cardiovascular Division	£100,000
IG/09/002/27562	**Prof H C Watkins** MD PhD FRCP FMedSci	University of Oxford	Funding towards building costs and equipment in a new clinical research facility	£420,000

Programme Grants

RG/09/001/25940	**Prof A S Ahmed** BSc PhD	University of Birmingham	Molecular mechanisms involved in the maintenance of maternal vascular homeostasis. *3 years*	£481,638
RG/08/009/25841	**Prof M R Bennett** BSc MBChB MA PhD FRCP FAHA FMedSci	University of Cambridge	RENEWAL: Regulation of vascular smooth muscle cell apoptosis and cell senescence in atherosclerosis. *5 years*	£1,617,732
RG/08/014/24067	**Prof J N Danesh** MBChB MSc DPhil	University of Cambridge	RENEWAL: Systematic approaches to the evaluation of emerging coronary risk markers. Large-scale epidemiological analyses of existing data and stored biological samples. *5 years*	£1,899,999
RG/09/003/27122	**Prof R W Farndale** MA PhD	University of Cambridge	RENEWAL: The role of blood vessel wall collagens in regulating vascular cell function in health and disease. *5 years*	£663,169
RG/08/004/25292	**Prof P J Grant** MD FRCP	University of Leeds	Inhibition of factor XIII/fibrin interactions: impact on *in vitro* and *in vivo* thrombus formation. *3 years*	£316,151
RG/08/008/25291	**Prof S E Humphries** PhD FRCPath MRCP	University College London	RENEWAL: Dissecting the molecular genetic architecture of plasma lipid traits: identifying functional changes and their use in determining coronary heart disease causality. *5 years*	£1,297,201

Programme Grants (continued)

RG/08/012/25941	**Prof B D Keavney** BSc BM BCh MRCP DM FRCP	University of Newcastle	RENEWAL: An investigation of the genetic basis of cardiovascular malformation. *5 years*	£1,639,518
RG/08/005/25303	**Dr G Lombardi** BSc PhD	King's College London	Manipulating regulatory T cells to promote clinical transplant tolerance. *5 years*	£1,245,538
RG/09/002/26425	**Dr F M Marelli-Berg** MD PhD	Imperial College London	Programming regulatory T cell trafficking to optimise cell-based tolerance induction in heart transplantation. *5 years*	£977,299
RG/08/010/25918	**Prof S B Marston** MA DPhil	Imperial College London	Molecular mechanisms of contractile dysfunction in cardiac muscle hypertrophy and failure. *3 years*	£636,991
RG/08/003/25264	**Dr P R Riley** BSc PhD	University College London	Lineage characterisation of adult EPDCs: stemness, multipotency and contributions to cardiovascular homoeostasis and endogenous repair. *5 years*	£1,090,811
RG/08/007/25296	**Prof M D Schneider** MD FMedSci	Imperial College London	Fate-mapping and clonal analysis of cardiac side population cells. *5 years*	£1,227,453
RG/08/011/25922	**Prof A M Shah** MD FRCP FESC FMedSci	King's College London	RENEWAL: NADPH oxidases in cardiac hypertrophy and failure. *5 years*	£1,499,347
RG/08/006/25302	**Prof R Trembath** MB FRCP FMedSci	King's College London	The molecular genetics basis of pulmonary arterial hypertension. *5 years*	£978,895
RG/08/016/26423	**Prof R D Vaughan-Jones** BSc PhD	University of Oxford	RENEWAL: Regulation of intracellular pH in ventricular myocardium. *5 years*	£1,221,461
RG/08/013/25942	**Prof P H Whincup** MB MSc PhD	University College London	RENEWAL: British Regional Heart Study: a prospective investigation of the aetiology and prevention of coronary heart disease, stroke and heart failure among older British men. *5 years*	£862,273
RG/08/015/26411	**Prof D M Yellon** PhD DSc	University College London	RENEWAL: Protection of the ischaemic and reperfused heart: investigation of basic mechanisms and therapeutic potential in animal and human myocardium. *5 years*	£1,238,938

Special Project Grants

SP/08/006/25110	**Prof A Ahluwalia** BSc PhD	Queen Mary, University of London	Investigation of the benefits of dietary and non-dietary sources of nitrate/nitrite on cardiovascular disease: mechanisms and cellular target. *3 years*	£494,518
SP/08/010/25939	**Prof J M Armitage** BSc MBBS FRCP	University of Oxford	RENEWAL: ASCEND: a study of cardiovascular events in diabetes. A randomised study of aspirin and of omega-3 fatty acid supplementation for the primary prevention of cardiovascular events in diabetes. *5 years*	£1,579,519
SP/08/009/25840	**Dr J R Bradley** DM MRCP	University of Cambridge	RENEWAL: Cambridge/Yale collaborative programme in cardiovascular research. *2 years*	£40,000
SP/08/002/24118	**Prof M J Brown** MA MSc MD FRCP FAHA FMedSci	University of Cambridge	A programme for prevention and treatment of resistant hypertension with algorithm-based therapy (PATHWAY). *5 years*	£1,740,984
SP/08/007/23628	**Prof J N Danesh** MBChB MSc DPhil	University of Cambridge	Collaborative pooled analysis of data on C-reactive protein gene variants and coronary disease. *3 years*	£406,334
SP/09/002/27676	**Prof J N Danesh** MBChB MSc DPhil	University of Cambridge	Study of the interplay of genetic, biochemical and lifestyle factors in coronary heart disease in 10,000 incident cases and 10,000 controls. (Joint funding with MRC). *4 years*	£900,000
SP/08/005/25115	**Prof A F Dominiczak** OBE MD FRCP FAHA FRSE FMedSci	University of Glasgow	Collaborative strategy for a definitive genome scan in essential hypertension: high fidelity phenotyping and 'hypercontrols'. *3 years*	£861,456
SP/08/003/24065	**Mr P J Kirkpatrick** FRCS OBE MD FRCP FAHA FRSE FMedSci	University of Cambridge	Simvastatin for aneurysmal subarachnoid haemorrhage (STASH): a multi-centre randomised controlled clinical phase III study. *3 years*	£1,251,331
SP/08/008/26402	**MRC/BHF Experimental Medicine**		MRC/BHF Experimental Medicine: three joint grants awarded to University of Cambridge, University of Dundee and Imperial College London	£340,000
SP/08/004/25851	**Prof P J Scambler** MRCPath	University College London	A four-year, interdisciplinary, PhD studentship programme: complexity in cardiovascular biomedicine. *7 years*	£1,500,000
SP/09/001/27117	**Prof K G C Smith** BMedSc MBBS PhD MA FRACP FRCPA	University of Cambridge	A whole genome association study of ANCA-associated vasculitis. *2 years*	£565,333

Project Grants

Listed alphabetically by Institute

PG/08/084/25827	**Dr P J R Barton** PhD	Imperial College London	Role of follistatin-like genes in the heart and the response to myocardial injury. *3 years*	£229,212
PG/08/108/26161	**Dr N J Brand** BSc PhD	Imperial College London	Investigating the mechanism of action of the anti-hypertrophic transcription factor kruppel-like factor 15 (KLF15). *6 months*	£14,002
PG/08/117/26023	**Dr J T B Crawley** BSc PhD	Imperial College London	Characterisation of the molecular basis for activated protein C-mediated vascular endothelial cell cytoprotection. *3 years*	£172,150
PG/09/005/26627	**Dr J T B Crawley** BSc PhD	Imperial College London	Cytoprotective activated protein C and stroke. *1 year*	£185,388
PG/08/114/25766	**Dr D P Francis** MRCP MD	Imperial College London	Non-invasive haemodynamics to probe physiology and echocardiographic measurements of dyssynchrony in chronic heart failure. *3 years*	£265,093
PG/08/115/25781	**Dr D P Francis** MRCP MD	Imperial College London	'AQURO', a new, potentially automatable approach for quantifying mitral regurgitation: technology development and validation through collaboration between cardiovascular science and bioengineering. *3 years*	£170,127
PG/08/096/26077	**Prof S E Harding** BSc PhD	Imperial College London	Signalling pathways of growth in cardiomyocytes derived from human embryonic stem cells. *2 years*	£166,303
PG/08/103/26133	**Prof A D Hughes** BSc MBBS PhD	Imperial College London	Southall and Brent revisited (SABRE) – Heart3D. *3 years*	£109,566
PG/08/122/26397	**Dr P J Kilner** MB BS MD	Imperial College London	Magnetic resonance based numerical modelling of whole heart structural and fluid dynamics. *1 year*	£87,766
PG/09/032/27241	**Dr K T MacLeod** BSc PhD	Imperial College London	Cellular factors underlying the progression towards heart failure and its prevention. *3 years*	£244,545
PG/08/077/25587	**Prof S B Marston** MA DPhil	Imperial College London	Molecular mechanisms of contractile dysfunction in hypertrophic cardiomyopathy: the roles of altered contractile protein, O-glycosylation and oxidative stress. *3 years*	£199,358
PG/08/058/25334	**Dr M J Mullen** MD MRCP MBBS	Imperial College London	The physiological impact of right to left shunting through patent foramen ovale in severe chronic obstructive pulmonary disease at rest and during exercise. *2 years*	£101,557
PG/08/090/25518	**Prof J R Pepper** MB BChir FRCS	Imperial College London	Randomised ischaemic mitral evaluation (RIME). *2 years*	£101,538

Project Grants (continued)

PG/08/046/25077	**Dr A M Randi** MD PhD	Imperial College London	Role of endothelial adhesion molecule ICAM-2 in FGF signalling and angiogenesis. *3 years*	£176,744
PG/08/111/26226	**Prof N Rosenthal** BS PhD	Imperial College London	Insulin like-growth 1 and serum glucocorticoid kinases: in concert for cardiac protection and repair. *3 years*	£257,456
PG/09/012/26846	**Prof N J Severs** PhD DSc	Imperial College London	Heteromeric gap junction channels: correlation of electrical properties with connexin make-up. *3 years*	£183,485
PG/08/048/25093	**Prof N J Severs** PhD DSc	Imperial College London	Role of connexin43 protein partners in heart disease-related gap junction remodelling. *3 years*	£178,807
PG/08/053/25192	**Prof P D Weinberg** MA MSc DIC PhD	Imperial College London	Does uptake of circulating lipoproteins by the arterial wall determine plaque vulnerability in mice? *3 years*	£175,030
PG/08/064/25398	**Prof M Avkiran** BSc PhD DSc	King's College London	Crosstalk between protein kinase C and protein kinase A pathways in myocardial protein kinase D regulation: mechanisms and functional significance. *3 years*	£220,109
PG/08/110/26228	**Dr A C Brewer** BSc PhD	King's College London	Molecular mechanisms underlying NOX4-mediated cardiomyocyte differentiation. *3 years*	£189,388
PG/08/067/25460	**Dr P Eaton** BSc PhD	King's College London	15-Deoxy-prostaglandin J2 and the heart: looking beyond PPARγ and receptor mediated signalling. *3 years*	£159,098
PG/08/039/24436	**Dr A Smith** BSc PhD	King's College London	Magnetic resonance-T1 relaxation time mapping as a method of measuring thrombus size and organisation. *1 year 6 months*	£151,054
PG/08/085/25828	**Dr G M Ellison** BSc PhD	Liverpool John Moores University	Bidirectional interactions between myocytes and resident stem cells in the heart's adaptive response to exercise stress. *2 years*	£101,427
PG/09/022/26739	**Prof S B J Ebrahim** MFPHM MD	London School of Hygiene & Tropical Medicine	British Women's Heart and Health Study: causes and consequences of cardiovascular disease. *3 years*	£308,528
PG/08/070/25464	**Dr D Bishop-Bailey** BSc PhD	Queen Mary, University of London	Cytochrome P450 2J2 as an endogenous regulator of monocyte-macrophage inflammation and phenotype switch. *2 years*	£101,582
PG/09/001/25734	**Dr R J Schilling** MBBS MRCP	Queen Mary, University of London	Comparison of catheter ablation with medical therapy for atrial fibrillation in heart failure. *2 years*	£245,801
PG/08/051/25141	**Dr S S Ye** MB MD PhD	Queen Mary, University of London	Matrix metalloproteinase-8 in the pathogenesis of atherosclerosis. *3 years*	£99,996
PG/09/002/26056	**Dr J W G Yarnell** MD MFPHM	Queen's University Belfast	Early detection and determinants of stroke, coronary heart disease and congestive heart failure: the Caerphilly Prospective Study. Phase 5 follow-up. *3 years*	£180,077

Project Grants (continued)

PG/08/038/24217	**Prof A J Camm** BSc MD FRCP FESC FACC FAHA FCGC FMedSci	St George's, University of London	Usefulness of natriuretic peptide measurements in patients with atrial fibrillation undergoing direct-current cardioversion or those requiring rate-control. *2 years*	£149,305
PG/08/062/25382	**Dr D V Gordienko** BSc PhD	St George's, University of London	Mechanisms of adrenergic and purinergic regulation of myocytes from renal resistance blood vessels: sub-cellular aspects of calcium signalling. *3 years*	£205,839
PG/08/042/25066	**Prof W A Large** PhD BPharm	St George's, University of London	Investigation into the activation mechanisms of novel protein kinase C-dependent TRPC channel proteins in vascular smooth muscle cells. *3 years*	£226,078
PG/08/074/25533	**Dr V Budhram-Mahadeo** BSc PhD	University College London	Analysing expression and function of POU4F2/Brn-3b and determining redundancy with POU4F1/Brn-3a in the developing heart. *2 years*	£111,891
PG/09/014/26950	**Prof B Henderson** BSc PhD	University College London	Circulating cell stress proteins, lymphocyte function, and cardiovascular disease. *3 years*	£239,385
PG/09/023/26806	**Dr E Hypponen** MSc MPH PhD	University College London	Vitamin D and the risk of cardiovascular disease and related traits: a large-scale genetic association study. *3 years*	£217,599
PG/09/017/26975	**Dr I J Mackie** BSc PhD FRCPath	University College London	Investigation of the influence of mutations and polymorphisms on the expression and functionality of ADAMTS13. *1 year*	£51,826
PG/08/091/26002	**Dr A Stephanou** MSc PhD	University College London	Role of p53 and STAT1 in regulating the autophagic pathway in the ischaemic myocardium. *3 years*	£161,591
PG/08/089/25324	**Dr P Syrris** BSc PhD	University College London	Mutation screening of the plectin gene in in arrhythmogenic right ventricular cardiomyopathy (AVRC). *1 year 6 months*	£83,535
PG/08/092/26051	**Dr P Syrris** BSc PhD	University College London	Mutations in RAS-MAPK signalling pathway components: a novel cause of non-syndromic left ventricular hypertrophy in children? *1 year*	£79,997
PG/09/026/27137	**Prof A Tinker** MRCP PhD	University College London	Identification of proteins involved in trafficking checkpoints in a K^+ channel complex involved in the long QT syndrome. *2 years*	£131,783
PG/08/098/26122	**Dr S G Wannamethee** BSc PhD	University College London	Explaining the association between type 2 diabetes and coronary heart disease in older men and women using two linked epidemiological studies: the role of novel risk factors. *1 year 6 months*	£84,075
PG/09/024/26857	**Dr S G Wannamethee** BSc PhD	University College London	Pathways to prevention and prediction of cardiovascular disease and associated disability in older men: the British Regional Heart Study. *3 years*	£989,660

Project Grants (continued)

PG/09/010/26743	**Dr B J Wojciak-Stothard** MSc PhD	University College London	Role of RhoB in the regulation of pulmonary vascular contractility and remodelling in response to hypoxia. *3 years*	£238,828
PG/08/088/25873	**Prof I C Zachary** BSc PhD	University College London	Role of neuropilins and neuropilin-associated proteins in vascular smooth muscle cell (VSMC) function and neointimal VSMC hyperplasia *in vivo*. *3 years*	£174,252
PG/08/127/26517	**Prof N A Booth** BSc PhD	University of Aberdeen	Spontaneous and endogenous fibrinolysis in human thrombosis. *2 years*	£152,784
PG/08/047/25082	**Dr P N Aveyard** PhD MRCP	University of Birmingham	Rapid reduction versus abrupt quitting for smokers who want to stop soon: a randomised controlled non-inferiority trial. *3 years*	£151,701
PG/08/095/26021	**Prof R S Bonser** MRCP FRCS	University of Birmingham	Identification of heart donors using biochemical probes. *3 years*	£161,594
PG/08/076/25549	**Prof M P Frenneaux** MBBS MD FRACP FACC FRCP FESC FMedSci	University of Birmingham	Epidemiology and diagnosis of heart failure with preserved left ventricular ejection fraction. *3 years*	£270,799
PG/09/006/26670	**Prof M P Frenneaux** MBBS MD FRACP FACC FRCP FESC FMedSci	University of Birmingham	Randomised double blind placebo controlled trial of perhexiline in heart failure with preserved ejection fraction syndrome. *2 years*	£199,298
PG/08/043/25067	**Dr N Kalia** BSc PhD	University of Birmingham	Molecular mechanisms governing hematopoietic stem cell recruitment to non-bone marrow microcirculation *in vivo*. *3 years*	£183,128
PG/08/128/26525	**Prof G B Nash** BSc PhD	University of Birmingham	Regulation of the adhesive and effector functions of neutrophils as they migrate through endothelium. *3 years*	£196,556
PG/08/040/24556	**Mr D Pagano** MD FRCS	University of Birmingham	Myocardial protection with perhexiline in left ventricular hypertrophy. *3 years*	£209,148
PG/08/054/25272	**Prof D O Bates** BSc PhD	University of Bristol	VEGF165b function *in vivo*. *3 years*	£173,647
PG/08/129/26534	**Dr M Bond** BSc PhD	University of Bristol	Functional analysis of novel F-box proteins: role of FBXL6 and FBXO10 in smooth muscle cell proliferation and apoptosis. *1 year*	£23,794
PG/08/104/26137	**Prof J C Hancox** BSc PhD	University of Bristol	Modulation of the electrophysiology of the atrioventricular node by endothelin-1. *3 years*	£242,099
PG/09/034/27375	**Prof J C Hancox** BSc PhD	University of Bristol	Molecular basis of hERG potassium channel blockade by disopyramide and its enantiomers. *2 years*	£109,151
PG/08/056/25325	**Dr I Hers** BSc MSc PhD	University of Bristol	Understanding the molecular mechanisms underlying hyperactivity of JAK2V617F positive platelets in patients with myeloproliferative disorders. *3 years*	£220,288

Project Grants (continued)

PG/08/113/25515	**Dr I Hers** BSc MSc PhD	University of Bristol	The role and regulation of phosphodiesterase 3A in human platelets. *2 years*	£117,397
PG/08/044/25068	**Mr G J Murphy** BSc MBChB MD FRCS	University of Bristol	Blood transfusion mediated renal injury in cardiac surgery: risk factor interactions and modification in a pre-clinical model. *3 years*	£74,969
PG/08/049/25130	**Prof A W Poole** MA PhD VetMB	University of Bristol	*In vivo* analysis of Ena/VASP family function and regulation in platelets. *3 years*	£184,751
PG/08/059/25335	**Prof J M Squire** BSc FRMS	University of Bristol	The molecular basis of filtration in the microvessel endothelial glycocalyx. *3 years*	£149,465
PG/08/008/24403	**Prof M R Bennett** BSc MBChB MA PhD FRCP FAHA FMedSci	University of Cambridge	Identification of 'vulnerable' plaques by intravascular ultrasound and serum biomarkers. *3 years*	£192,074
PG/09/035/27378	**Prof J N Danesh** MBChB MSc DPhil	University of Cambridge	Relevance of apolipoprotein(a) isoforms to risk of myocardial infarction in South Asians. *1 year 6 months*	£161,872
PG/08/116/25789	**Prof C L Huang** PhD BMBCh	University of Cambridge	Genetic determinants of triggering and perpetuation of atrial fibrillation. *3 years*	£228,253
PG/09/015/26991	**Dr K M O'Shaughnessy** BMBCh DPhil MRCP FRCP	University of Cambridge	Molecular genetics of large artery stiffening. *2 years*	£427,614
PG/08/081/25727	**Dr K M O'Shaughnessy** BMBCh DPhil MRCP FRCP	University of Cambridge	Resolving the molecular genetics of familial hyperaldosteronism type II (FH-II). *2 years*	£96,459
PG/09/037/27387	**Dr S E Ozanne** BSc PhD	University of Cambridge	A role for a programmed mitochondrial CoQ deficit in developmental programming of cardiovascular disease. *3 years*	£241,777
PG/08/069/25462	**Dr G J Pettigrew** MBChB FRCS MD	University of Cambridge	Humoral alloimmunity and autoimmunity in allograft rejection and tolerance. *3 years*	£198,924
PG/08/094/26019	**Dr M S Sandhu** PhD	University of Cambridge	Genome-wide association study of HDL: linking genetic *loci* for HDL to risk of coronary artery disease. *2 years*	£154,266
PG/08/041/24818	**Dr A Zhou** PhD	University of Cambridge	The structural role of serpins in the control of blood pressure. *2 years 6 months*	£108,423
PG/09/021/26544	**Dr W R Ford** BSc PhD	University of Cardiff	Roles of trace amine-associated receptors in cardiovascular responses to dietary trace amines. *3 years*	£182,805
PG/08/072/25474	**Prof T M Griffith** MA MRCP	University of Cardiff	Interactive roles of hydrogen peroxide and calcium in the endothelial signalling network that underpins the EDHF phenomenon. *3 years*	£181,963
PG/08/073/25520	**Dr D P Ramji** BSc PhD	University of Cardiff	Transforming growth factor-B signalling in human macrophages and the control of foam cell formation. *3 years*	£98,709
PG/08/106/26155	**Prof A J Jovanovic** MD PhD	University of Dundee	Increased expression of SUR2A as a strategy to counteract ageing-induced decrease in cardiac output and physical endurance. *3 years*	£95,646

Project Grants (continued)

PG/08/105/26150	**Dr A E Munsterberg** PhD	University of East Anglia	The origin and migration of secondary heart field progenitors. *3 years*	£203,607
PG/08/093/26020	**Dr N L M Cruden** MRCP	University of Edinburgh	The effects of ischaemia-reperfusion and ischaemic preconditioning on endogenous fibrinolysis in man. *2 years*	£188,321
PG/08/068/25461	**Dr P W F Hadoke** BSc PhD	University of Edinburgh	Determining the influence of vascular smooth muscle and endothelial cell endothelin B receptors on neointimal proliferation through cell-specific knockout. *3 years*	£199,798
PG/09/033/27366	**Dr P S Hartley** BSc MPhil PhD	University of Edinburgh	The role of CLOCK in the control of megakaryocyte development. *2 years*	£140,668
PG/08/107/26160	**Prof A H Baker** BSc PhD	University of Glasgow	Interrogation and manipulation of micro RNA during differentiation of human ES cells to cardiomyocyte and vascular lineages. *3 years*	£144,514
PG/09/007/26675	**Prof A H Baker** BSc PhD	University of Glasgow	Induced pluripotent cells: analysis of cell reprogramming of dermal fibroblasts derived from patients with cardiovascular disease versus age-matched healthy controls. *3 years*	£190,903
PG/08/118/25586	**Prof G J Graham** BSc PhD	University of Glasgow	Investigation into the role of the atypical chemokine receptor D6 in atherosclerosis: human and murine studies. *3 years*	£194,090
PG/09/004/26522	**Dr C M Loughrey** BVMS PhD MRCVS	University of Glasgow	Investigating the expression and function of RUNX1 in cardiac tissue during myocardial infarction. *2 years*	£104,723
PG/08/125/26415	**Dr T M Palmer** BSc PhD	University of Glasgow	EPAC1- and ERK-dependent activation of C/EBP transcription factors: a new cyclic AMP-activated anti-inflammatory gene expression module in vascular endothelial cells. *3 years*	£198,213
PG/09/036/27380	**Prof N Sattar** PhD MBChB FRCP FRCPath	University of Glasgow	The intrauterine environment and differences in adiposity and insulin resistance between South Asian and European populations. *2 years*	£144,001
PG/09/011/26753	**Prof G L Smith** BSc PhD	University of Glasgow	Cellular basis for alternating T-wave morphology in isolated rabbit hearts. *3 years*	£206,403
PG/09/028/27149	**Dr A J Workman** BSc PhD	University of Glasgow	Atrial remodelling of calcium handling and electrophysiology in heart failure. *3 years*	£204,134
PG/08/071/25473	**Dr S Xu** BM MSc PhD	University of Hull	Effect and mechanism of homocysteine on human vascular endothelial cells: role of TRP calcium-permeable channels. *2 years*	£125,824
PG/09/020/26305	**Dr R Ajjan** MRCP MMedSci PhD	University of Leeds	Modulation of clot structure and platelet function by aspirin in individuals with diabetes: role of aspirin dose and glycaemic control. *2 years*	£98,747

Project Grants (continued)

PG/09/008/26679	**Prof D J Beech** BSc PhD	University of Leeds	TRPM3 and sulphated steroid responses of vascular smooth muscle cells. *2 years*	£123,360
PG/08/060/25340	**Dr K M Birch** BSc PhD	University of Leeds	Can a moderate-intensity exercise programme improve endothelial function in post-menopausal women with type 2 diabetes? *3 years*	£136,262
PG/08/120/26338	**Dr S A Deuchars** BSc PhD	University of Leeds	Mechanisms underlying rhythmic sympathetic activity: network, single cell and *in vivo* approaches. *3 years*	£196,290
PG/09/013/26885	**Prof C S Peers** BSc PhD	University of Leeds	An investigation into the pro-arrhythmic actions of carbon monoxide. *3 years*	£163,094
PG/08/052/25172	**Dr H Philippou** BSc PhD	University of Leeds	Regulation of factor XIIIa activity by plasmin: characterisation of proteolytic cleavage sites and functional influence on clot stabilisation. *3 years*	£178,086
PG/09/009/26712	**Dr S Plein** MRCP	University of Leeds	Three-dimensional whole heart myocardial perfusion MR imaging. *2 years*	£194,732
PG/08/109/26171	**Dr D S Steele** BSc PhD	University of Leeds	Mechanisms of RYR2 dysfunction underlying myocardial disease. *3 years*	£222,174
PG/08/123/26405	**Dr N P J Brindle** BSc PhD	University of Leicester	Role of the protein kinase Tp12/Cot in control of endothelial function. *2 years*	£106,203
PG/08/097/26073	**Dr G C Rodrigo** BSc PhD	University of Leicester	Mechanistic insights into the role of calcium loading in cardioprotection: a study using a novel cellular model of ischaemic preconditioning. *3 years*	£161,457
PG/08/082/25728	**Dr I B Squire** MD FRCP	University of Leicester	Plasma matrix metalloproteinase and tissue inhibitor of metalloproteinase after acute myocardial infarction in man: a cardiac magnetic resonance study of left ventricular remodelling. *1 year*	£111,148
PG/08/102/26129	**Dr D A Middleton** BSc DPhil	University of Liverpool	Further studies on the structure and function of phospholemman, a regulator of cardiac ion flux. *1 year*	£61,106
PG/08/057/25326	**Prof S C Wray** BSc PhD	University of Liverpool	Cholesterol, caveolae and coronary arterial Ca signalling and function. *3 years*	£123,206
PG/08/075/25545	**Dr A E Canfield** BSc PhD	University of Manchester	AXL signalling – identifying new therapeutic targets for vascular calcification. *3 years*	£170,984
PG/08/055/25310	**Dr H Dobrzynski** BSc PhD	University of Manchester	Functional and molecular investigation into the arrhythmogenic properties of the atrioventricular ring tissue. *3 years*	£173,319
PG/08/078/25593	**Prof D A Eisner** MA DPhil FMedSci	University of Manchester	An integrative approach to define the cellular mechanisms underlying the slow changes of QT interval following changes of heart rate. *3 years*	£190,327
PG/08/050/25135	**Prof A M Gurney** BSc PhD	University of Manchester	A critical role for KCNQ channels in the pulmonary artery. *3 years*	£238,505

Project Grants (continued)

PG/09/019/26306	**Dr I T Johnson** BSc PhD	University of Manchester	The role of K_{2P} channels in the acute and chronic response to PUFAs in an animal model of hypertension. *3 years*	£218,111
PG/08/112/25877	**Prof D J Henderson** BSc PhD	University of Newcastle	Outflow tract development in normal and abnormal human embryos. *3 years*	£153,524
PG/08/083/25779	**Prof P M W Bath** MB BS MRCP	University of Nottingham	Safety and tolerability of adding clopidogrel to aspirin and dipyridamole in patients with acute ischaemic stroke or TIA: a randomised trial. *3 years*	£233,283
PG/09/027/27141	**Dr C Denning** BSc PhD	University of Nottingham	New *in vitro* models of long QT syndrome by coupling induced pluripotency and cardiomyocyte differentiation. *3 years*	£188,109
PG/09/025/27136	**Dr J Emsley** BSc PhD	University of Nottingham	Coagulation factor XII activation and the role of platelet glycoprotein Ibα: linking structure to function. *3 years*	£144,939
PG/08/124/26414	**Dr D S Gardner** BSc PhD RNut	University of Nottingham	Cardiovascular health of aged adult offspring derived from mothers deficient in B-vitamins during the periconceptional period. *2 years*	£149,092
PG/09/030/27220	**Dr S McMullen** PhD	University of Nottingham	Progression of renal injury in developmentally programmed hypertension – interactions between sex steroids and the renin-angiotensin system. *3 years*	£269,338
PG/08/045/25069	**Prof S Bhattacharya** MSc MBBS MD MRCP FMedSci	University of Oxford	Deconstructing the role of Pcsk5 in cardiovascular development. *3 years*	£295,465
PG/08/086/25849	**Dr K J Buckler** BSc PhD	University of Oxford	Oxygen-dependent regulation of background potassium channels in arterial chemoreceptor cells: role of metabolism, other oxygen-dependent signalling pathways and TASK1/3. *2 years*	£122,537
PG/08/119/26263	**Prof K M Channon** MD MRCP	University of Oxford	The BioHAP Study: determining the effect of endogenous tetrahydrobiopterin availability on vascular function through genetic variation in GTP cyclohydrolase 1. *3 years*	£197,589
PG/09/003/26135	**Dr B A Fielding** MPhil PhD	University of Oxford	Hepatic fatty acid partitioning in pre- and post-menopausal women in relation to risk factors for cardiovascular disease. *3 years*	£254,894
PG/08/101/26126	**Dr T D Karamitsos** MD PhD	University of Oxford	Myocardial tissue oxygenation in hypertrophy assessed with blood-oxygenation-level-dependent (BOLD) MRI. *2 years*	£216,808
PG/09/031/27221	**Dr P Kohl** PhD MD	University of Oxford	Load-dependency of apelin-induced positive inotropy in single cardiomyocytes. *3 years*	£211,724
PG/08/080/25726	**Dr C A Lygate** BSc PhD	University of Oxford	Malonyl-CoA decarboxylase inhibition as a new therapeutic approach in chronic heart failure. *2 years 6 months*	£130,953

Project Grants (continued)

PG/08/063/25397	**Dr B N Mihaylova** MSc DPhil	University of Oxford	Direct assessment of the cost-effectiveness of different statin regimens in people at different levels of vascular risk, using data from large statin trials. *2 years*	£99,710
PG/08/061/25380	**Prof D J Paterson** MSc DPhil	University of Oxford	Abnormal calcium regulation coupled to defective nNOS signalling underlying cardiac sympathetic hyper-responsiveness caused by hypertension. *3 years*	£211,487
PG/09/016/26992	**Dr S J Tucker** MA DPhil	University of Oxford	Functional validation of a structural gating model for the Kir potassium channel. *3 years*	£191,042
PG/09/029/27185	**Dr R Wade-Martins** MA DPhil	University of Oxford	Optimising delivery and expression of the low density lipoprotein receptor under physiological regulation for gene therapy of familial hypercholesterolaemia. *1 year*	£78,315
PG/08/121/26362	**Prof H C Watkins** MD PhD FRCP FMedSci	University of Oxford	The role of HIF-1α cardiotoxicity in chronic heart failure. *2 years*	£160,964
PG/08/100/26125	**Prof J M Gibbins** BSc PhD	University of Reading	Investigation of the role of the receptor tyrosine kinase EphB2 in the regulation of platelet function, haemostasis and thrombosis. *3 years*	£199,094
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