

British Heart Foundation
Research Grant Awards 2007/2008

BEATING HEART DISEASE TOGETHER



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Introduction

In the year April 2007 to March 2008 the British Heart Foundation (BHF) authorised grants totalling over £106 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.

A breakdown of expenditure for each of the three research committees is approximately as follows. The Chairs and Programme Grants Committee authorised £71 million, £6.6 million of which is the annual cost of maintaining BHF chairholders' core funding. There were 27 chairholders (also referred to as BHF Professors) in post during the year and they are site-visited every five years to assess past and future research performance and plans. The visiting team includes internationally renowned scientists. The Fellowships Committee awarded 65 applications for personal awards costing £14 million. The Project Grants Committee awarded 128 applications to the value of £21 million.

We are actively promoting cardiovascular research to establish the next generation of world-class researchers. To this end we have awarded Research Excellence Grants to the Universities of Edinburgh and Oxford plus King's College London and Imperial College London. The awards were made after rigorous international peer review of applications made by 17 UK universities and provide up to £9 million each over six years to the four successful applicants. The awards will allow the institutions to train over 100 new cardiovascular researchers over the next six years. In addition the awards are intended to allow the scientific leaders to pursue innovative research ideas and to recruit scientists from outside traditional biological sciences – such as physicists, mathematicians and chemists – into the cardiovascular field.

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

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

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 interests: The cell and molecular biology of atherosclerosis and restenosis.

University of Cambridge

The Chair of Cardiovascular Sciences

Held by: **Professor M R Bennett** BSc MB ChB MA PhD FRCP FAHA FMedSci

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

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 Glasgow

The Walton Chair of Medical Cardiology

Held by: **Professor S M Cobbe** MA MD FRCP FESC FRSE FMedSci

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 Chair of Cardiothoracic Surgery

Held by: **Professor K M Taylor MD FRCS FRCSE FESC FETCS FSA – retired October 2007**

Major interests: Improving cardiopulmonary bypass techniques; maintaining national registries for audit of heart surgery outcomes.

University of London
Imperial College (NHLI)

The Simon Marks Chair of Cardiology

Held by: **Professor P A Poole-Wilson MD FRCP FACC FESC FMedSci**

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

University of London
King's College London

The Chair of Cardiology

Held by: **Professor A M Shah MD FRCP FESC FMedSci**

Major interests: 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 QHP MD BSc
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**

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 Joseph Levy Chair of Paediatric
Cardiac Morphology**

Held by: **Professor R H Anderson BSc MD
FRCPATH – retired September 2007**

Major interest: The anatomy of the developing heart in health and congenital heart 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 BHF Chair of Cardiology

Held by: **Professor B D Keavney**
BSc BM BCh MRCP DM FRCP

Major interests: Genetics of coronary heart disease.

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 2007 – 31 March 2008

Fellowships

Non-clinical

Senior Basic Science Research Fellowships

FS/08/001/ 23666	Dr H M Arthur BSc PhD	University of Newcastle	Role of TGF β type II receptor in cardiovascular development and disease. <i>5 years</i>	£548,933
FS/08/002/ 24537	Dr M Mayr MD PhD	King's College London	A proteomic approach to embryonic stem cell differentiation: role of telomerase and telomere-associated proteins. <i>5 years</i>	£661,603
FS/08/034/ 22969	Dr J R Potts BSc PhD	University of York	RENEWAL: Structural studies of protein complexes involved in platelet activation, infective endocarditis and fibrinolysis. <i>5 years</i>	£373,776

Intermediate Basic Science Research Fellowships

FS/07/017/ 22951	Dr H A A Al-Khayat BSc PhD	Imperial College London	Mammalian cardiac myosin filament ultrastructure in health and disease. <i>4 years</i>	£222,754
FS/08/005/ 24297	Dr E M L Chung PhD MSc	University of Leicester	Forecasting brain injury in the virtual patient; revealing the mechanisms underlying embolic stroke using computational modelling. <i>4 years</i>	£114,228
FS/08/003/ 23624	Dr I Gorenne PhD	University of Cambridge	Role of sirtuin-1 in human vascular smooth muscle cell response to oxidative stress and in atherosclerosis. <i>4 years</i>	£418,249
FS/07/037/ 23482	Dr A L Harte PhD BMedSci	University of Warwick	Regulation of the RAS by insulin and TNF α in human adipocytes. <i>3 years</i>	£149,273
FS/07/053/ 24069	Dr J L Johnson MSc PhD	University of Bristol	Do atherosclerotic plaques contain a distinct subpopulation of highly invasive and destructive foam cell macrophages? <i>4 years</i>	£365,386
FS/07/036/ 23298	Dr R D Machado BSc PhD	King's College London	The cytoplasmic domain of BMPR-II and Tctex-1 in signalling and pathogenesis of pulmonary arterial hypertension. <i>4 years</i>	£434,492
FS/07/016/ 22630	Dr B Rodriguez Lopez PhD	University of Oxford	Integrative computational and experimental investigation of the mechanisms of cardiac arrhythmias and defibrillation in acute myocardial ischaemia. <i>4 years</i>	£294,529

FS/07/052/ 22942	Dr V Sboros BSc MSc PhD	University of Edinburgh	Microbubble selective imaging for macro-, micro-vasculature and molecular targeting: a laboratory translational system. <i>4 years</i>	£474,154
FS/08/004/ 23625	Dr N Smart BSc PhD	University College London	Investigating the potential for thymosin β 4-induced neovascularisation in cardioprotection. <i>4 years</i>	£505,130

4-year PhD Studentships

FS/07/064/ 24074	Prof M Avkiran BSc PhD DSc	King's College London	Fourth intake 2007/2008 4-year PhD Studentship Scheme: Ms Jennifer Bodkin; Ms Anna Hsu; Ms Natasha-Jayne Hathaway. <i>4 years</i>	£351,381
FS/07/065/ 24076	Dr D R Greaves BSc PhD	University of Oxford	Fourth intake 2007/2008 4-year PhD Studentship Scheme: Ms Kiterie Faller; Ms Julie De Mesmaeker; Ms Jyoti Patel. <i>4 years</i>	£356,064
FS/07/063/ 24075	Prof J J Mullins PhD	University of Edinburgh	Fourth intake 2007/2008 4-year PhD Studentship Scheme: Ms Rachel Dakin; Ms Louise Evans; Ms Sarah Robertson. <i>4 years</i>	£326,193

3-year PhD Studentships

FS/07/045/ 23446	Mr K Bhaskaran BSc MSc	London School of Hygiene and Tropical Medicine	The effects of ambient temperature and its synergistic role with air pollution on the risk of myocardial infarction. <i>3 years</i>	£88,009
FS/08/011/ 24535	Ms P Caruso BSc MA	University of Glasgow	<i>In vivo</i> genetic manipulation of the vasculature and its application to pulmonary arterial hypertension. <i>3 years</i>	£94,408
FS/07/020/ 22637	Ms S Chapple BSc	King's College London	Regulation of eNOS/hsp90/Akt interactions and nitric oxide synthesis in human foetal endothelial cells in pre-eclampsia. <i>3 years</i>	£96,259
FS/07/022/ 22946	Miss H E Chick BSc	Imperial College London	Assessing the potential of non-integrating lentiviruses for application to vascular gene therapy. <i>3 years</i>	£92,655
FS/07/042/ 23330	Miss H Dawson BSc	Royal Veterinary College, London	Myosin VI and atherosclerosis: role in endocytosis of lipoproteins during foam cell formation. <i>3 years</i>	£97,129
FS/07/039/ 23152	Mr S El-Ajouz BSc	University of Leicester	Molecular basis of antagonist action at cardiovascular P2X receptors. <i>3 years</i>	£87,982

FS/07/028/ 23020	Miss E L Evans MSc	University of Nottingham	Redox sensitivity of STAT3 and its role in the survival of cardiomyocytes during hypoxia/oxidative stress. 3 years	£82,511
FS/07/044/ 23443	Mr A Fantin BSc MSc	University College London	Defining novel roles for tissue macrophages in physiological angiogenesis. 3 years	£93,395
FS/08/007/ 24294	Mr A Hamilton BSc	University of Manchester	Determination of the structural requirements for modification of vascular endothelial growth factor angiogenic activity by heparan sulphate oligosaccharides. 3 years	£92,068
FS/07/038/ 23092	Mr R Hewer BSc	University of Bristol	Mechanisms underlying the differential regulation of vascular smooth muscle cell and endothelial cell proliferation by cyclic nucleotides. 3 years	£88,887
FS/07/024/ 22957	Miss N Hudson BSc	University College London	Spatio-temporal activation of endothelial PKC isotypes during inflammatory leukocyte migration. 3 years	£96,895
FS/07/018/ 22632	Mr W J Kaiser BSc	University of Reading	A study of platelet tachykinins and the regulation of haemostasis: from mechanisms of action to physiological significance. 3 years	£90,969
FS/07/041/ 23296	Mr J A G Kennard PhD	University of Oxford	Junctional modulation in mesenteric artery and vas deferens. 3 years	£91,876
FS/07/019/ 22635	Ms S E Martin BSc	University of Bristol	Oxidative stress in freshly isolated cardiomyocytes during different stages of postnatal development. 3 years	£84,237
FS/07/029/ 23022	Ms J McLachlan MSc	University of Glasgow	Mechanism of cardiovascular disease prevention by MitoQ, a novel mitochondria-targeted antioxidant. 3 years	£91,336
FS/07/040/ 23154	Mr D Melanaphy BSc	Queen's University of Belfast	Expression and function of TRPM8 calcium channel in the vasculature. 3 years	£89,409
FS/07/057/ 23834	Mr M Memo BSc	Imperial College London	Investigation of the molecular mechanism of familial dilated cardiomyopathy mutations in sarcomeric proteins. 3 years	£95,629
FS/07/021/ 22945	Ms A Motterie MSc BSc	Queen Mary, London	Analyses of matrix metalloproteinase-12 gene variations in relation to myocardial infarction susceptibility. 3 years	£97,207
FS/08/009/ 24438	Mr R Onkal BA GPA	Imperial College London	Comparison of 'neonatal' and 'adult' splice forms of cardiac voltage-gated sodium channel (Nav1.5). 3 years	£99,019

FS/07/026/ 22962	Miss M A Paul MSc	King's College London	The role of calcineurin and PKC signalling in COX-2 gene regulation and myocardial remodelling in response to angiotensin II. <i>3 years</i>	£97,448
FS/07/043/ 23331	Ms E L Porter BSc	University of Manchester	Co-localisation of vascular receptors and ion transporters: importance for cellular and intercellular signalling. <i>3 years</i>	£89,570
FS/07/025/ 22961	Ms G Randall BSc MSc	University College London	The role of the family in adjustment to cardiovascular disease. <i>3 years</i>	£93,141
FS/07/023/ 22952	Ms H E Ringham BSc	Imperial College London	Genetic studies on a confirmed chromosome 21q22.2-22.3 familial combined hyperlipidaemia susceptibility locus and functional analysis on strong candidate genes. <i>3 years</i>	£93,947
FS/07/027/ 22963	Mr A D Scott MPhys MSc	Imperial College London	Improved respiratory motion compensation for magnetic resonance imaging of the coronary arteries using a novel non-model-based technique. <i>3 years</i>	£83,648
FS/08/006/ 23620	Ms E N Stedman BMedSci	University of Sheffield	Nociceptin mediated microvascular inflammation during sepsis. <i>3 years</i>	£90,587
FS/07/058/ 24033	Mr D J Swan BA	University of Newcastle	Modulation of immune response by sphingosine-1-phosphate. <i>3 years</i>	£87,332
FS/07/055/ 23594	Mr W To BMedSci	University of Birmingham	A role for ATP in modulating vasomotion during hypoxia in umbilical cord blood vessels. <i>3 years</i>	£89,839
FS/08/008/ 24433	Student to be appointed	University of Bristol	Cross-talk between P2Y ₁ and P2Y ₁₂ receptors for ADP in platelets. <i>3 years</i>	£92,833
FS/07/054/ 23590	Student to be appointed	University of Aberdeen	Studies to determine the cellular mechanisms of the anti-atherosclerotic effects of docohexaenoic acid – possible role for endocannabinoids. <i>3 years</i>	£90,936
FS/08/010/ 24527	Student to be appointed	University of Oxford	Regulation of platelet activation by protein kinase C epsilon. <i>3 years</i>	£117,144
FS/07/056/ 23755	Student to be appointed	University of Manchester	Influence of PMCA4 ablation on vascular contractility. <i>3 years</i>	£90,776
FS/07/059/ 24071	Student to be appointed	University of Bristol	Role of the endothelial glycocalyx in the regulation of vascular permeability. <i>3 years</i>	£91,535

Fellowships

Clinical

Intermediate Clinical Research Fellowships

FS/07/035/ 22959	Dr R S Foo MD MRCP	University of Cambridge	p53 and the anti-apoptotic protein ARC in dilated cardiomyopathy. <i>4 years</i>	£686,525
FS/08/012/ 24454	Dr V Muthurangu BSc MB ChB MRCPCH MD	University College London	Towards comprehensive non-invasive magnetic resonance assessment of pulmonary hypertension. <i>4 years</i>	£371,893
FS/07/046/ 23326	Dr S B Wheatcroft BSc MBChB MRCP	University of Leeds	Exploring the effects of insulin-like growth factor binding protein-1 on endothelial nitric oxide production, endothelial dysfunction and the development of atherosclerosis. <i>4 years</i>	£582,425

Clinical Research Training Fellowships

FS/07/062/ 24034	Dr P P Barman MB BS MRCP	University of Bristol	Investigation of human atrial sodium calcium exchanger modulation and remodelling in atrial fibrillation. <i>3 years</i>	£164,496
FS/08/013/ 24408	Dr S E Bowater MBBS MRCP	University of Birmingham	A study to investigate the physiological adaptations to chronic hypoxaemia and pulmonary hypertension in Eisenmenger Syndrome. <i>2 years</i>	£127,031
FS/07/030/ 22645	Dr S Dass MB BS MRCP	University of Oxford	The role of cardiac energy metabolism during stress in disease states – clinical studies with exercise ³¹ P-MR spectroscopy at 3T. <i>2 years</i>	£156,307
FS/07/031/ 22950	Dr J C Gomes BA MB BS	University College London	Molecular manipulation of the electrophysiological substrate in the desmoplakin knockout mouse: a model of arrhythmogenic right ventricular cardiomyopathy. <i>3 years</i>	£153,208
FS/07/061/ 23715	Dr A W Johnson MBBS	University of Oxford	Metabolic control of energetics and efficiency in the human heart: peroxisome proliferator activated receptors and uncoupling proteins. <i>3 years</i>	£229,754
FS/07/048/ 23237	Dr J P Langrish BA MA MB ChB MRCP	University of Edinburgh	Pro-ischaemic effects of diesel exhaust inhalation in patients with stable angina pectoris. <i>3 years</i>	£158,468
FS/08/015/ 24530	Dr B Patel MB ChB	University of Liverpool	The contribution of inflammatory mechanisms to myocardial and vascular injury in coronary reperfusion. <i>2 years</i>	£106,548

FS/07/060/ 23444	Miss J M J Richards MB ChB BSc MRCS	University of Edinburgh	Magnetic resonance imaging of abdominal aortic aneurysm instability. <i>3 years</i>	£191,549
FS/07/050/ 23514	Dr R Rinze MD	University of Oxford	Regulation of endothelial cell growth and survival by eNOS coupling. <i>3 years</i>	£154,835
FS/07/047 23165	Dr J Thachil MBBS MRCP MRCPath	University of Liverpool	The regulation of pro-coagulant and pro-inflammatory properties of monocytes by microparticle-associated endothelial protein C receptor. <i>2 years</i>	£127,632
FS/07/049/ 23328	Dr M Toshner MB ChB MRCP	University of Cambridge	Role of endothelial progenitor cells in familial and idiopathic pulmonary arterial hypertension. <i>2 years</i>	£116,869
FS/07/032/ 23501	Dr I Webb MBBCh MA	King's College London	Postconditioning: the role of PKCepsilon and GSK3. <i>3 years</i>	£190,636
FS/08/014/ 24435	Dr P D Williams BSE FRACP MRCP BM BCh MA	University of Manchester	A study of stent-based intracoronary gene transfer using a novel stent designed specifically for plasmid delivery into the coronary arteries. <i>2 years</i>	£117,328

Clinical Research Leave Fellowship

FS/07/033/ 21992	Dr A G Zaman ChB MRCP	University of Newcastle	Platelet dependent thrombosis in patients with type 2 diabetes and the effect of antiplatelet agents using an arterial injury model. <i>3 years</i>	£144,051
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Marian and Christina Ionescu Fellowship for Cardiac Surgery

FS/07/051/ 23334	Mr J L Nowell BSc MB ChB MRCS	St George's, London	Anti-thrombotic therapy following tissue aortic valve replacement. <i>2 years</i>	£129,792
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Research Excellence Grants

RE/08/001/ 23904	Prof J J Mullins PhD	University of Edinburgh	For innovative cardiovascular research and training the next generation of world-class researchers in cardiovascular disease. <i>6 years</i>	£7,600,000
RE/08/002/ 23906	Prof M D Schneider MD	Imperial College London	For innovative cardiovascular research and training the next generation of world-class researchers in cardiovascular disease. <i>6 years</i>	£8,900,000
RE/08/003/ 23907	Prof A M Shah MD FRCP FESC FMedSci	King's College London	For innovative cardiovascular research and training the next generation of world-class researchers in cardiovascular disease. <i>6 years</i>	£9,000,000
RE/08/004/ 23915	Prof H C Watkins MD PhD FRCP FMedSci	University of Oxford	For innovative cardiovascular research and training the next generation of world-class researchers in cardiovascular disease. <i>6 years</i>	£8,400,000

Strategic Initiative Grant

SI/08/001/ 23072	Prof H C Watkins MD PhD FRCP FMedSci	University of Oxford	Conversion of Cardiovascular Medicine Laboratory.	£1,955,350
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Infrastructure Grant

IG/08/001/ 24072	Prof R I Lechler PhD FRCP FMedSci	King's College London	Funding towards a cardiovascular clinical research facility.	£500,000
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Programme Grants

RG/07/010/ 23676	Prof J D Brook BSc PhD	University of Nottingham	RENEWAL: A gene regulatory network for the developing heart and congenital heart disease. <i>5 years</i>	£1,095,435
RG/07/003/ 23133	Prof K M Channon MD MRCP	University of Oxford	RENEWAL: Mechanistic importance of tetrahydrobiopterin-dependent eNOS regulation in vascular disease. <i>5 years</i>	£1,261,342
RG/07/004/ 22659	Prof K Clarke BSc PhD	University of Oxford	RENEWAL: Substrates, transcription and control of cardiac energy metabolism and function. <i>5 years</i>	£1,347,387
RG/07/005/ 23633	Prof A F Dominiczak OBE MD FRCP FAHA FRSE FMedSci	University of Glasgow	RENEWAL: Genomics and proteomics of hypertension and its vascular complications: the pathwayomic strategies. <i>3 years</i>	£814,662
RG/07/002/ 23132	Prof J Emsley BSc PhD	University of Nottingham	Structure of coagulation factors from the intrinsic pathway: design and development of novel anticoagulants targeting the apple domain. <i>5 years</i>	£759,423
RG/07/011/ 24068	Prof F G R Fowkes MB MRCP	University of Edinburgh	RENEWAL: Randomised controlled trial of low-dose aspirin in the prevention of cardiovascular events and death in subjects with asymptomatic atherosclerosis. <i>3 years</i>	£241,464
RG/08/001/ 24717	Prof A P Halestrap PhD DSc FMedSci	University of Bristol	RENEWAL: The role of mitochondria in the life and death of the heart. <i>5 years</i>	£834,066
RG/07/009/ 23120	Prof M A Hanson MA DPhil FRCOG	University of Southampton	RENEWAL: Maternal and epigenetic determinants of cardiovascular structure and function. <i>5 years</i>	£822,366
RG/07/007/ 23635	Prof D J Henderson BSc PhD	University of Newcastle	RENEWAL: Integrating mechanical and physical forces into the regulatory network of heart morphogenesis. <i>5 years</i>	£858,173
RG/07/008/ 23674	Prof Sir M G Marmot MB MFCM	University College London	RENEWAL: Psychosocial and biological factors in the occurrence of cardiovascular disease: the Whitehall II study. <i>5 years</i>	£1,023,519
RG/08/002/ 24718	Prof N W Morrell MD MRCP FRCP	University of Cambridge	RENEWAL: Cellular and molecular mechanisms of pulmonary arterial hypertension due to mutations in BMPR-II. <i>5 years</i>	£1,286,688
RG/07/006/ 23634	Prof J F R Paton PhD	University of Bristol	RENEWAL: Vascular-neuronal signalling in the nucleus tractus solitarius: novel implications for blood pressure control. <i>5 years</i>	£782,494
RG/07/012/ 24110	Prof H C Watkins MD PhD FRCP FMedSci	University of Oxford	RENEWAL: Downstream mechanisms in hypertrophic cardiomyopathy: the importance of primary and secondary changes in energetics, angiogenesis and calcium handling. <i>5 years</i>	£1,256,586

Special Project Grants

SP/07/003/ 24097	Prof A M Buchan BA MSc PhD	University of Oxford	Clinical Research Infrastructure Initiative: Clinical Research Imaging Centre.	£3,000,000
SP/07/001/ 23603	Prof N Chaturvedi MBBS MSc MRCP MFPHM MD	Imperial College London	Wellcome Trust/BHF study: Ethnic differences in risks and outcomes of the cardiometabolic syndrome: Southall and Brent revisited: SABRE (Joint funding). <i>5 years</i>	£1,000,000
SP/07/002/ 23394	Prof J E Deanfield BA BChir MB FRCP FMedSci	University College London	Adolescent type 1 diabetes cardio-renal intervention trial (AddIT). <i>5 years</i>	£998,635
SP/07/008/ 24066	Prof D A Lawlor MB ChB MRCP	University of Bristol	Obstetric, lifestyle and genetic determinants of atherosclerosis, fat mass, insulin, glucose and lipid levels in women in early middle age. <i>3 years</i>	£882,350
SP/07/004/ 24096	Prof D E Newby BA BSc PhD BM DM	University of Edinburgh	Clinical Research Infrastructure Initiative: Clinical Research Imaging Centre.	£3,000,000
SP/07/006/ 23627	Prof A D Struthers MD FRCP FESC	University of Dundee	The potential to improve primary prevention by using BNP as an indicator of silent pancardiac target organ damage: the 5P study. <i>5 years</i>	£323,958
SP/07/007/ 23671	Prof P J Talmud PhD DSc FRCPPath	University College London	The integration of the knowledge of genes involved in heart development and cardiovascular processes from biomedical research, using standardised gene ontology. <i>5 years</i>	£541,785
SP/08/001/ 25331	UKCRC Public Health Research Centres of Excellence		UKCRC Public Health Research Centres of Excellence. <i>5 years</i>	£2,500,000
SP/07/005/ 24099	MRC Biomarker Proposals		MRC Biomarker Proposals	£1,000,000

Project Grants

Listed alphabetically by Institute

PG/08/001/ 23721	Prof P G Camici MD FRCP	Imperial College London	Coronary microvascular dysfunction is the link between cardiovascular risk and rheumatic diseases. <i>1 year</i>	£78,902
PG/07/074/ 23445	Dr A Clerk BSc PhD	Imperial College London	Regulation and function of activating transcription factor 3 (ATF3) in cardiac myocytes. <i>3 years</i>	£194,417
PG/08/032/ 24847	Dr S A Cook PhD MRCP	Imperial College London	The role of osteoglycin in cardiac remodelling and TGFβ1 signalling. <i>2 years</i>	£159,267
PG/07/044/ 22769	Dr J T B Crawley BSc PhD	Imperial College London	Characterisation of the molecular interactions between TFPI and protein S. <i>2 years</i>	£41,245
PG/08/017/ 24528	Dr P C Evans MSc PhD	Imperial College London	Does the transcription factor NRF2 protect arteries from inflammation and atherosclerosis? <i>2 years</i>	£108,392
PG/07/066/ 22790	Dr D P Francis MRCP MD	Imperial College London	Assessment of right ventricular function during and following cardiac surgery and evaluation of pericardial physiology in preserving RV function. <i>3 years</i>	£181,450
PG/07/065/ 22785	Dr D P Francis MRCP MD	Imperial College London	Developing a new, dynamic, therapeutic pacemaker algorithm for stabilising periodic breathing in chronic heart failure. <i>3 years</i>	£238,850
PG/07/090/ 23697	Dr F M Marelli-Berg MD PhD	Imperial College London	Phosphoinositide 3-kinase p110δ as a pharmacological target to prevent T cell-mediated chronic rejection in heart transplant. <i>3 years</i>	£208,241
PG/08/031/ 24823	Dr J E Pease BSc PhD	Imperial College London	Unravelling the pharmacology of chemokine receptor CXCR3. <i>3 years</i>	£170,839
PG/07/060/ 23276	Prof P H Sugden MA DPhil	Imperial College London	Regulation of nuclear Dbp2-related (NDR)/Stk38 kinases in the heart and the consequences of their activation. <i>3 years</i>	£166,245
PG/07/121/ 24189	Dr R J Tapp PhD Grad Dip BA Dip	Imperial College London	Impact of size at birth and early childhood growth patterns on the microvasculature: the Avon Longitudinal Study of Parents and Children (ALSPAC). <i>1 year</i>	£44,515
PG/07/114/ 24029	Prof S A M Thom MBBS MRCP	Imperial College London	Polypill Pilot – a randomised placebo-controlled trial of fixed-dose combination medication in people at raised risk of cardiovascular disease. <i>1 year</i>	£58,206
PG/07/096/ 23752	Prof M R Wilkins MD FRCP	Imperial College London	Proteomic analysis of the pulmonary vasculature for informative biomarkers of pulmonary hypertension. <i>3 years</i>	£238,246

PG/07/076/ 23480	Dr E P Morris BA PhD	Institute of Cancer Research	The structure and location of troponin in cardiac muscle thin filaments: implications for the molecular mechanism of Ca ²⁺ regulation. <i>3 years</i>	£137,039
PG/07/056/ 23150	Prof M Avkiran BSc PhD DSc	King's College London	The role of site-specific cardiac troponin I phosphorylation in PKD-mediated regulation of contraction: an integrated study in murine and human myocardium. <i>3 years</i>	£158,708
PG/07/071/ 23366	Dr A C Cave BSc PhD	King's College London	Mechanisms underlying the sustained cardiac troponin I phosphorylation in systemic sepsis. <i>3 years</i>	£175,742
PG/07/067/ 23323	Prof J C Kentish MA PhD	King's College London	Myosin cross-bridge dynamics in normal and diseased human myocardium. <i>2 years</i>	£110,329
PG/07/073/ 23432	Prof M S Marber FRCP PhD FACC	King's College London	Mechanism of myocardial p38-MAPK activation by ischaemia. <i>3 years</i>	£193,652
PG/07/049/ 23057	Dr M Mayr MD PhD	King's College London	Proteomic analysis of endothelial progenitor cells. <i>3 years</i>	£180,878
PG/07/088/ 23685	Dr L Zeng PhD	King's College London	The role of XBP1 in maintenance of endothelial cell integrity. <i>3 years</i>	£164,597
PG/07/083/ 22975	Prof L Smeeth MBChB MSc	London School of Hygiene and Tropical Medicine	Utilising randomised genetic variation in the innate immune response to investigate causality in the association between inflammation and cardiovascular disease. <i>3 years</i>	£178,570
PG/07/129/ 24243	Prof P B Munroe MSc PhD	Queen Mary, London	High throughput collaborative analysis of cardiovascular genes in 6,000 hypertensives and 6,000 controls. <i>1 year</i>	£314,874
PG/07/098/ 23757	Prof T D Warner BSc PhD	Queen Mary, London	Influences of nonsteroid anti-inflammatory drugs, including COX-2-selectives, on eicosanoid balance and platelet reactivity: roles for COX-1 and COX-2. <i>1 year 6 months</i>	£65,327
PG/07/063/ 23289	Dr C P D Wheeler-Jones BSc PhD	Royal Veterinary College	Prostanoids as key regulators of protease-activated receptor (PAR)-induced endothelial cell activation: autocrine mediators of proliferation, migration and angiogenesis? <i>3 years</i>	£177,861
PG/07/079/ 23568	Dr A P Albert BSc MSc PhD	St George's, London	Study of the physiological functions of TRPC-mediated Ca ²⁺ – permeable cation conductance in arterial smooth muscle cells. <i>3 years</i>	£194,564
PG/07/127/ 24235	Dr I A Greenwood BSc PhD	St George's, London	Contribution of bestrophins to calcium-activated chloride channels in vascular myocytes. <i>3 years</i>	£158,653
PG/08/023/ 24619	Prof S Jeffery BSc PhD	St George's, London	Identification of a novel gene mutated in autosomal recessively inherited complex lymphatic dysplasia. <i>2 years</i>	£90,957

PG/07/078/ 23555	Prof L H Clapp BSc PhD	University College London	Regulation of vascular K _{ATP} channels in sepsis. 3 years	£187,342
PG/07/133/ 24260	Prof A D Hingorani MBBS MRCP PhD	University College London	Utilising genetic tools to dissect causal pathways in cardiovascular disease: deployment of a 50K high density SNP array in the Whitehall II prospective study. 1 year	£207,174
PG/07/110/ 24001	Prof R J MacAllister MBBS MD MRCP	University College London	Neuroprotection by remote ischaemic preconditioning and remote ischaemic postconditioning in experimental stroke. 3 years	£152,795
PG/07/119/ 24169	Dr A G Ramage BSc PhD DSc	University College London	Midbrain-hypothalamic 5-HT containing pathways mediating stress-related and DOCA-salt hypertension. 3 years	£198,353
PG/07/111/ 24002	Dr A Stephanou MSc PhD	University College London	Bio-electrospraying: a novel approach in cardiac tissue engineering. 2 years	£126,082
PG/07/042/ 22312	Dr P Syrris BSc PhD	University College London	Mutations in desmosomal genes as a cause of dominant dilated cardiomyopathy. 1 year	£89,366
PG/07/047/ 22931	Prof D M Yellon PhD DSc	University College London	A study investigating the cardioprotective potential of the novel adipocytokine visfatin. 3 years	£153,536
PG/07/043/ 22680	Dr S P Hoppler MSc PhD	University of Aberdeen	Regulation of vertebrate heart muscle differentiation: GATA transcription factors and Wnt signalling interact in a gene regulatory network. 3 years	£166,285
PG/07/106/ 23153	Prof R S Bonser MRCP FRCS	University of Birmingham	Can enhanced glycaemic control in type II diabetics improve myocardial protection during coronary artery bypass grafting? 3 years	£261,172
PG/08/012/ 24489	Prof R S Bonser MRCP FRCS	University of Birmingham	Enhancing patient protection in aortic arch surgery. 3 years	£213,893
PG/08/018/ 24599	Dr S Egginton BSc PhD	University of Birmingham	The role of platelet surface receptors in angiogenesis. 3 years	£174,639
PG/08/014/ 24507	Dr J V Patel BSc MSc	University of Birmingham	Diabetes health, residence and metabolism in Asians: the DHRMA study. 2 years	£73,578
PG/08/033/ 24856	Dr G E Rainger BSc PhD	University of Birmingham	The role of CD31 (PECAM-1) in regulating the burden and phenotype of atheroma formed in the Apo-E knockout mouse. 3 years	£204,808
PG/07/104/ 23898	Dr Y A Senis PhD	University of Birmingham	Investigating the functional role of the platelet ITIM receptor G6b-B in thrombosis. 3 years	£150,776
PG/07/116/ 24114	Prof S P Watson BSc PhD FMedSci	University of Birmingham	Dissection of the proximal events in the CLEC-2 signalling cascade. 3 years	£151,283

PG/07/046/ 22772	Dr R Ascione MD ChM	University of Bristol	Transplantation of enriched autologous bone-marrow derived CD 133 ⁺ cells in patients having coronary surgery after STEMl: a double blind placebo-controlled trial (TransACT). <i>3 years</i>	£210,276
PG/08/022/ 21636	Prof D O Bates BSc PhD	University of Bristol	Role of VEGF isoforms in the regulation of glomerular microvascular permeability. <i>3 years</i>	£159,208
PG/08/004/ 24339	Dr M Bond BSc PhD	University of Bristol	Regulation of Skp2 expression during vascular smooth muscle cell phenotypic modulation and neointima formation. <i>3 years</i>	£185,807
PG/07/131/ 24254	Dr T R Gaunt BSc PhD	University of Bristol	Genetic risk factors for cardiovascular disease in the British Women's Heart and Health Study. <i>3 years</i>	£163,757
PG/07/081/ 23619	Dr S J George BSc PhD	University of Bristol	Reduction of plaque instability by soluble N-cadherin. <i>3 years</i>	£152,373
PG/07/125/ 24218	Dr C L Jackson BSc PhD	University of Bristol	Vessel wall dynamics and plaque rupture. <i>3 years</i>	£169,649
PG/07/101/ 23802	Dr A F James BSc DPhil	University of Bristol	Remodelling of Ca ²⁺ handling in left atrial and pulmonary vein cardiomyocytes from spontaneously hypertensive rats: a basis for arrhythmogenesis? <i>2 years</i>	£133,134
PG/08/009/ 24411	Dr S Kasparov MD PhD	University of Bristol	Purinergic mechanisms in central sympathetic chemosensitivity: role in pathophysiology of heart failure. <i>3 years</i>	£329,279
PG/07/080/ 23613	Dr I Khaliulin PhD	University of Bristol	The mechanism of temperature preconditioning and its relevance to cardioprotection during prolonged hypothermic ischaemia. <i>2 years</i>	£211,375
PG/07/097/ 23756	Dr H Mellor BSc PhD	University of Bristol	The role of endocytic trafficking of Src tyrosine kinase in VEGF signalling. <i>2 years</i>	£114,082
PG/08/036/ 24905	Prof C H Orchard BSc PhD	University of Bristol	The role of cellular Ca cycling in pacemaker activity in the cardiac atrio-ventricular node. <i>3 years</i>	£258,599
PG/07/118/ 24152	Prof A W Poole MA PhD VetMB	University of Bristol	The role of PKD in platelet function and thrombus formation. <i>3 years</i>	£217,813
PG/08/015/ 24510	Dr R M A Sitsapesan MSc PhD	University of Bristol	Functional investigations of Mitsugumin23, a novel cation channel of cardiac sarcoplasmic reticulum. <i>1 year</i>	£39,341
PG/07/085/ 23349	Prof M J Brown MA MSc MD FRCP FAHA FMedSci	University of Cambridge	Hypertension due to Conn's adenoma – the localisation of adrenal cortical adenomas by ¹¹ C-metomidate PET scanning following dexamethasone and fludrocortisone suppression. <i>3 years</i>	£168,395

PG/07/113/ 24025	Dr E Gherardi MD PhD	University of Cambridge	Protein engineering of HGF/SF for stem-cell mediated repair of myocardial infarction. <i>2 years</i>	£99,662
PG/07/084/ 23286	Dr J S Gibson PhD MA BA VetMB MRCVS	University of Cambridge	Phosphatidylserine exposure in sickle cells. <i>3 years</i>	£148,703
PG/07/123/ 24205	Dr J A Huntington BSc PhD	University of Cambridge	Serpin recognition, inhibition and clearance of thrombin. <i>3 years</i>	£164,835
PG/07/058/ 23244	Prof A M L Lever FRCP FRCPATH	University of Cambridge	Lentiviral-mediated gene delivery for attenuating innate and adaptive immune responses to allografts. <i>3 years</i>	£191,262
PG/07/108/ 23369	Dr R J F Loos PhD	University of Cambridge	Investigating the genetic determinants of daily physical activity. <i>3 years</i>	£279,688
PG/08/034/ 24882	Dr K M O'Shaughnessy BM BCh DPhil MRCP FRCP	University of Cambridge	Regulation of aldosterone release from adrenal glomerulosa cells: refining the role of 2-pore K ⁺ channels. <i>3 years</i>	£184,280
PG/07/100/ 23759	Dr S O Sage BA MA PhD	University of Cambridge	Molecular and functional characterisation of sodium-calcium exchangers and their role in secretion and calcium signalling in human platelets. <i>3 years</i>	£71,110
PG/08/011/ 24416	Dr D A Slatter MA PhD	University of Cambridge	Vascular protein binding sites in heterotrimeric collagens. <i>3 years</i>	£197,552
PG/08/003/ 24286	Dr A J Vidal-Puig MD PhD	University of Cambridge	Plasmalogen lipids: role in obesity, insulin resistance and atherosclerosis. <i>2 years</i>	£145,520
PG/08/021/ 24111	Dr I B Wilkinson MA DM MRCP	University of Cambridge	Pathophysiology of arterial stiffness in rheumatoid arthritis. <i>2 years</i>	£131,990
PG/08/013/ 24504	Prof G F Baxter MSc PhD	University of Cardiff	Serotonin-associated injury and survival signalling in myocardium: receptor-dependent and non-receptor targets for cytoprotection. <i>3 years</i>	£141,823
PG/08/025/ 24667	Dr D Lang BSc PhD	University of Cardiff	Roles for folic acid in the modulation of endothelial nitric oxide synthase function. <i>3 years</i>	£150,987
PG/07/062/ 23278	Prof A J Jovanovic MD PhD	University of Dundee	Overexpression of SUR2A as a strategy to counteract ageing-induced increase in myocardial susceptibility to ischaemia? <i>3 years</i>	£136,679
PG/07/051/ 23063	Prof C C Lang BSc MD FRCP FACC	University of Dundee	The APEX Trial: effects of Allopurinol on coronary and Peripheral Endothelial function dysfunction in patients with cardiac syndrome X. <i>2 years</i>	£120,450
PG/07/072/ 23367	Prof A D Struthers MD FRCP FESC	University of Dundee	Do xanthine oxidase inhibitors reduce both left ventricular hypertrophy and vascular dysfunction in cardiovascular patients with renal dysfunction? <i>2 years</i>	£154,801

PG/07/109/ 23994	Dr S Pyner BSc PhD	University of Durham	Do nucleus tractus solitarius neurones signal plasma volume status to spinally projecting paraventricular hypothalamic neurones to regulate sympathetic activity? <i>3 years</i>	£143,068
PG/07/107/ 23895	Dr C M Moran BSc PhD	University of Edinburgh	Quantification of the binding dynamics of ultrasonic targeted contrast microbubbles using intravascular ultrasound, laser Doppler anemometry and optical projection tomography. <i>3 years</i>	£239,395
PG/08/005/ 24362	Prof T Sethi MBBS PhD	University of Edinburgh	Role of Galectin-3 in atherogenesis <i>1 year 6 months</i>	£118,645
PG/07/105/ 23059	Dr L Smith BSc PhD	University of Edinburgh	Genetic mapping of a novel, spontaneous, early-onset mouse model of aortic aneurysm with acute dissection (AAD). <i>2 years</i>	£98,018
PG/07/075/ 23478	Prof A H Baker BSc PhD	University of Glasgow	Exploiting plaque-targeted adeno-associated viruses (AAV) to modify plaque biology in apoE ^{-/-} mice. <i>2 years</i>	£112,342
PG/07/048/ 22935	Prof G D O Lowe MD FRCP	University of Glasgow	Proinflammatory cytokines and cardiovascular risk in later life: British Regional Heart Study and British Women's Heart and Health Study. <i>1 year 6 months</i>	£74,037
PG/08/037/ 24921	Prof M R MacLean BSc PhD	University of Glasgow	Interactions between serotonin and BMPR-II in the pulmonary circulation: effect on the development of pulmonary hypertension. <i>2 years</i>	£96,247
PG/07/082/ 23623	Dr T M Palmer BSc PhD	University of Glasgow	Priming phosphorylated stat proteins for cytokine-triggered degradation in vascular endothelial cells: a new anti-inflammatory role for the A2A adenosine receptor. <i>3 years</i>	£165,545
PG/07/126/ 24223	Dr L M Work BSc PhD	University of Glasgow	A combined approach targeting oxidative stress and apoptosis in stroke. <i>3 years</i>	£186,911
PG/07/091/ 23698	Dr M Zaccolo MD	University of Glasgow	Role of PDE2 in the control of cardiac myocyte hypertrophy. <i>3 years</i>	£217,123
PG/07/057/ 23215	Dr C P Gale MRCP	University of Leeds	Characterising hospital performance for acute coronary syndromes using the Myocardial Infarction National Audit Project (MINAP) Database: data incompleteness, multiple imputation and development of performance indicators. <i>3 years</i>	£139,271
PG/07/117/ 24116	Prof A S Hall PhD FRCP	University of Leeds	An evaluation of the clinical utility of routine measurement of H-FABP in NHS patients presenting with either suspected or confirmed ACS. <i>1 year</i>	£76,267
PG/08/020/ 24617	Prof M T Kearney MB ChB MRCP DM	University of Leeds	Predicting all-cause mortality and mode of death in patients with chronic heart failure. <i>3 years</i>	£166,228

PG/08/050/ 23060	Prof M T Kearney MB ChB MRCP DM	University of Leeds	3-hydroxy-3 methylglutaryl-coenzyme A reductase inhibitors, endothelial and endothelial progenitor cell function in Asian men. 3 years	£162,300
PG/07/122/ 24195	Dr N J Mutch BSc PhD	University of Leeds	Polyphosphate as a physiological surface for contact activation. 3 years	£153,479
PG/07/061/ 23277	Dr M Peckham BSc PhD	University of Leeds	How do mutations in the filament-forming of beta-cardiac myosin cause heart disease? 3 years	£165,913
PG/07/095/ 23743	Dr M Peckham BSc PhD	University of Leeds	The effects of cardiomyopathy-causing mutations in actin on contractile performance in rat adult cardiomyocytes. 3 years	£112,156
PG/07/053/ 23097	Prof C S Peers BSc PhD	University of Leeds	Regulation of L-type Ca ²⁺ channels by carbon monoxide. 3 years	£140,570
PG/08/002/ 24285	Dr H Philippou BSc PhD	University of Leeds	Homocysteinylation of end-stage proteins: effects on fibrin structure and function in relation to cardiovascular risk. 3 years	£148,715
PG/08/035/ 24894	Dr E J Spary BSc PhD	University of Leeds	GPR30 – a cytoplasmic oestrogen receptor modulating central cardiovascular neurones? 1 year 6 months	£73,012
PG/07/103/ 23893	Prof J A Trinick BSc PhD	University of Leeds	NMR spectroscopy studies of titin structure. 3 years	£190,243
PG/08/027/ 24774	Prof E White BSc PhD	University of Leeds	The role of mechanical stimulation in right heart failure induced by pulmonary hypertension. 3 years	£157,554
PG/08/030/ 24814	Dr N P J Brindle BSc PhD	University of Leicester	Post-transcriptional mechanisms by which angiotensin-1 regulates endothelial functions. 3 years	£156,367
PG/07/068/ 23346	Dr G P McCann BSc MB ChB MD	University of Leicester	Contribution of LVH and diastolic dysfunction assessed by myocardial tissue tagging to symptoms and exercise intolerance in severe aortic stenosis. 2 years	£149,583
PG/07/132/ 24256	Prof N J Samani BSc MD FRCP FACC FMedSci	University of Leicester	Identifying and comparing genetic determinants of coronary artery disease in European Caucasians and South Asians using the 50K Illumina array. 1 year	£266,078
PG/07/132/ 24256	Dr N M Storey BSc PhD	University of Leicester	The role of sarcolemmal K _{ATP} channel subunits in the protective response of cardiac muscle to metabolic stress and ischaemia. 3 years	£154,760
PG/07/093/ 23739	Dr C Vial PhD	University of Leicester	Identification and characterisation of human mast cell P2 receptors: study of their contribution to mast cell antithrombotic and proangiogenic activity. 3 years	£185,507

PG/07/069/ 23357	Dr D A Middleton DPhil BSc	University of Liverpool	Mechanistic studies of the interaction between phosphorylated small molecules and phospholamban for the stimulation of cardiac relaxation. <i>1 year</i>	£54,273
PG/07/052/ 23069	Dr A E Canfield BSc PhD	University of Manchester	Determination of the mechanism by which HtrA1 regulates vascular calcification. <i>3 years</i>	£181,331
PG/07/102/ 23819	Dr I M Fearon BSc PhD	University of Manchester	Arrhythmogenic regulation of cardiac sodium channels: understanding the critical role of lysophosphatidylcholine in ischaemia. <i>2 years</i>	£90,385
PG/07/099/ 23758	Dr H K Graham BSc PhD	University of Manchester	Adverse cardiac remodelling in heart disease and ageing: a role for the giant sarcomeric protein titin? <i>3 years</i>	£186,691
PG/08/007/ 24400	Dr K Hentges BA PhD	University of Manchester	Identification of an essential gene for cardiovascular development from studies on the <i>L11Jus8</i> mutant mouse. <i>3 years</i>	£154,307
PG/07/128/ 24242	Dr A Kitmitto BSc PhD	University of Manchester	Characterisation of the molecular interactions between the luminal domain of triadin, the cardiac ryanodine receptor and calsequestrin. <i>2 years</i>	£98,453
PG/08/006/ 24399	Dr M Lei DPhil MD	University of Manchester	Generation and initial characterisation of a conditional cardiac specific gene deletion of the P21 activated kinase-1. <i>3 years</i>	£167,910
PG/07/124/ 24212	Dr A W Trafford BVSc PhD	University of Manchester	Probing the role of the putative intra-luminal calcium sensor in dysfunctional excitation contraction coupling and arrhythmogenesis in heart failure. <i>2 years</i>	£129,077
PG/07/054/ 23099	Dr L Venetucci MB ChB MRCP	University of Manchester	The effects of mutations in the ryanodine receptor and removal of FKBP12.6 on Ca release: interactions with β -adrenergic stimulation. <i>3 years</i>	£178,772
PG/07/055/ 23144	Dr X Wang MB ChB MMD PhD	University of Manchester	The signalling regulation of cardiac hypertrophy in mice with a cardiomyocyte-specific deletion of ERK5. <i>3 years</i>	£153,596
PG/07/115/ 24031	Dr M E Werner PhD	University of Manchester	cGMP-mediated regulation of potassium channels in the corpus cavernosum. <i>3 years</i>	£132,809
PG/07/086/ 23345	Prof D J Henderson BSc PhD	University of Newcastle	Roles for Scrib in cardiomyocyte polarity. <i>3 years</i>	£208,468
PG/08/026/ 24712	Prof B D Keavney BSc BM BCh MRCP DM FRCP	University of Newcastle	Cardiovascular phenotyping in the Newcastle 85+ study. <i>3 years</i>	£261,325
PG/07/092/ 23722	Dr C Denning BSc PhD	University of Nottingham	A rational approach to improving and scaling production of human embryonic stem cell derived cardiomyocytes. <i>3 years</i>	£165,834
PG/08/024/ 24409	Dr W R Dunn BSc PhD	University of Nottingham	ATP as a sympathetic neurotransmitter in small arteries in health and disease. <i>3 years</i>	£136,395

PG/08/010/ 24415	Dr M D Randall MPhil PhD	University of Nottingham	Cannabinoid-like novel fatty acid amides: vascular function and obesity. <i>2 years</i>	£101,440
PG/07/045/ 22690	Prof S Bhattacharya MBBS MD MRCP MSc	University of Oxford	GO-CHD: genetic origins of congenital heart disease. <i>3 years</i>	£198,581
PG/08/016/ 24514	Dr R P Choudhury BM BCh MRCP	University of Oxford	Optical coherence tomography: molecular and cellular imaging in atherosclerosis. <i>3 years</i>	£169,730
PG/07/059/ 23259	Prof K Clarke BSc PhD	University of Oxford	Cardiomyogenesis from cardiac-derived stem-progenitor cells: cell therapy for myocardial infarction and heart failure. <i>3 years</i>	£299,970
PG/07/089/ 23686	Dr N D Jones DPhil	University of Oxford	Identification of the mechanisms utilised by regulatory T cells to prevent T cell mediated rejection of heart allografts. <i>3 years</i>	£161,892
PG/08/019/ 24600	Prof D Noble CBE FRS FRCP(Hon) FMedSci	University of Oxford	Determinants of repolarisation reserve and their dependence on pathology. <i>1 year 6 months</i>	£172,515
PG/07/064/ 23293	Dr C A O'Callaghan BA Hons BM BCh MA DPhil MRCP	University of Oxford	Identification of a ligand that activates platelets through CLEC-2 and structural studies of the ligand. <i>3 years</i>	£112,499
PG/07/077/ 23491	Prof A B Parekh BA MA DPhil	University of Oxford	Function of STIM1 and Orai proteins in vascular endothelia. <i>2 years</i>	£78,209
PG/07/070/ 23365	Prof Sir G Radda CBE MA DPhil FMedSci FRS	University of Oxford	Imaging metabolic rates in normal and diseased hearts using a novel MR technique. <i>2 years</i>	£126,461
PG/08/028/ 24799	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. <i>1 year</i>	£53,329
PG/07/130/ 24245	Prof H C Watkins MD PhD FRCP FMedSci	University of Oxford	Genotyping CAD cases and controls from the PROCARDIS collection on the IMAT/Broad/CARE 50K vascular disease SNP array. <i>1 year</i>	£207,170
PG/07/094/ 23742	Prof E E Qwarnstrom DDS PhD	University of Sheffield	Control of bio-mechanical vascular cell responses through TILRR – a novel regulator of NF- κ B. <i>3 years</i>	£172,224
PG/08/029/ 24807	Prof R J Plevin BSc PhD	University of Strathclyde	The role of MAP kinase phosphatase-2 in the regulation of endothelial cell proliferation and angiogenesis. <i>2 years</i>	£64,868
PG/07/120/ 24187	Prof M Umpleby BA PhD	University of Surrey	Investigation of endogenous and exogenous postprandial TRL kinetics in the metabolic syndrome. <i>2 years</i>	£120,862
PG/07/087/ 23681	Dr N Rabbani BSc PhD	University of Warwick	Functional impairment of HDL by dicarbonyl glycation in glucose intolerance, obesity and type 2 diabetes – link to cardiovascular disease. <i>3 years</i>	£250,477



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