British Heart Foundation

Beat heartbreak forever.

Research Grant Awards 2018

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Contents

Introduction

In the year April 2017 to March 2018 the British Heart Foundation (BHF) awarded grants totalling £108.4 million* for research into the causes, prevention, diagnosis and treatment of diseases of the heart and circulation.

The BHF has five research grant committees, each of which meets up to four times a year. The members of each committee are experts in various aspects of basic and clinical cardiovascular research. Applications are sent to independent reviewers before being assessed by the committee. Judgements are made on factors such as scientific merit, relevance to cardiovascular disease, timeliness, relationship to other work in the field, and value for money. Shortlisted applicants for intermediate and senior Fellowships are interviewed.

In 2017-2018 the Chairs and Programme Grants Committee awarded £50.4 million to Personal Chairs, Programme Grants, Infrastructure Grants and other major projects. This included £7.5 million to provide a second round of funding to three BHF Centres of Regenerative Medicine, £3 million towards the National Prevention Research Initiative, and £2 million towards Health Data Research UK awards for the analysis of big data. It also included £327,054 towards six data science awards jointly funded with The Alan Turing Institute.

There were 31 chairholders (also referred to as BHF Professors) in post on 31 March 2018. Each chairholder is site-visited every five years to assess past research performance, future plans and proposed expenditure. The visiting team includes internationally renowned scientists.

The Clinical Studies Committee held its first meeting in May 2017 to support clinical trials of treatments, diagnostics and other interventions and certain observational studies of specific patient groups. The Committee awarded £3.6 million to three applications.

The Translational Awards Committee awarded £1.2 million to five applications for the development of cardiovascular research through early pre-clinical milestones, with the aim of advancing the research to be attractive for larger follow-on investment.

The Fellowships Committee awarded £32.2 million to 82 applications, and the Project Grants Committee awarded £21.3 million to 98 applications.

The pages that follow list BHF chairholders in post, and new awards made for Fellowships, Regenerative Medicine Centres, Infrastructure Grants, Special Project Grants, Clinical Study Grants, Programme Grants, New Horizons Grants, Translational Awards and Project Grants.

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

All of the figures above include supplements made to new and existing grants.

*This figure includes only the expected payments to the next milestone for grants which are conditional upon the successful achievement of project milestones.

BHF chairholders Listed by town

University of Birmingham

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

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

University of Bristol

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

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

University of Bristol

The Chair of Congenital Heart Surgery
Held by: Professor M Caputo MD MCh FRCS from 1 October 2017

Major interests: Cardiac surgical research, particularly in congenital heart disease.

University of Bristol

The Chair of Cardiovascular Science
Held by: Professor C Emanueli BSc PhD

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

University of Cambridge

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

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

University of Cambridge

The Chair of Epidemiology and Medicine
Held by: Professor J N Danesh MBChB MSc DPhil FMedSci

Major interests: Cardiovascular epidemiology; large-scale studies of genetic and biochemical factors.

University of Cambridge

The Chair of Cardiovascular Medicine
Held by: Professor Z Mallat MD PhD

Major interest: Cellular and molecular control of immune processes in atherosclerosis and vascular inflammation.

University of Cambridge

The Chair of Cardiopulmonary Medicine
Held by: Professor N W Morrell MBBS BSc MA MD FRCP FMedSci

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

University of Edinburgh

The Chair of Translational Cardiovascular Sciences
Held by: Professor A H Baker BSc PhD FMedSci

Major interest: Gene- and cell-based therapies to combat vascular disease.

University of Edinburgh

The John Wheatley Chair of Cardiology
Held by: Professor D E Newby BA BSc PhD BM DM DSc FRSE FESC FACC FMedSci

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

University of Glasgow

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

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

University of Leeds

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

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

University of Leeds

The Chair of Cardiovascular Imaging
Held by: Professor S Plein MRCP MD PhD

Major interest: Innovative cardiac magnetic resonance imaging for patient diagnosis and assessment.

University of Leicester

The Chair of Cardiac Surgery
Held by: Professor G J Murphy BSc MBChB MD FRCS

Major interest: Strategies to reduce distal organ injury occurring during cardiac surgery.

Imperial College London

The Simon Marks Chair of Regenerative Cardiology
Held by: Professor M D Schneider MD FMedSci

Major interests: Molecular control of cardiac myocyte growth and death; strategies for regenerative cardiac medicine.

King's College London

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

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

King's College London

The Chair of Cardiology
Held by: Professor K Otsu MD PhD FAHA FMedSci

Major interest: Inflammatory mechanisms in heart failure.

King's College London

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

Major interest: Cellular and molecular biology of production of reactive oxygen species in the cardiovascular system and their roles in atherosclerosis, cardiac hypertrophy and heart failure.

King's College London

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

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

King's College London

The Chair of Cardiovascular Proteomics
Held by: Professor M Mayr MD PhD from 1 May 2017

Major interest: Novel methods to detect and measure biomarkers of cardiovascular risk.

Queen Mary, University of London

The Chair of Cardiovascular Immunology
Held by: Professor F M Marelli-Berg MD PhD

Major interest: Control of T lymphocyte homing to the heart in rejection, autoimmunity and inflammation.

University College London

The Vandervell Chair of Congenital Heart Disease (to 30th September 2017)
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: Cellular and molecular physiology of the role of calcium in control of heart rhythm.

University of Manchester

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

Major interest: Genetics of heart disease.

University of Oxford

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

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

University of Oxford

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

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

University of Oxford

The Field Marshal Earl Alexander Chair of Cardiovascular Medicine
Held by: Professor K M Channon MD FRCP FMedSci

Major interests: Redox signalling in atherosclerosis; using genetics and genomics to discover novel molecular pathways in atherosclerosis.

University of Oxford

The Chair of Medicine and Epidemiology
Held by: Professor Sir Rory Collins MSc MBBS LMSSA FRCP FMedSci FRS

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

University of Oxford

The Chair of Regenerative Medicine
Held by: Professor P R Riley BSc PhD FMedSci

Major interests: Developmental biology of the heart and its applications to cardiac regenerative medicine.

University of Oxford

The Chair of Cardiovascular Medicine
Held by: Professor H C Watkins MD PhD FRCP FMedSci FRS

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.

University of Swansea

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

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

Awards made during the year 1 April 2017 – 31 March 2018

Fellowships

Listed alphabetically by Institute

Non-clinical Fellowships

Senior Basic Science Research Fellowships

Reference number	*Name*	*Institution*	*Grant title*	*Total*
FS/18/1/33234	**Dr J Johnson** MSc PhD	University of Bristol	The role of the GM-CSF receptor CSF2RA in inflammatory cardiovascular diseases. ***5 years***	£1,046,617
FS/18/19/33371	**Dr M Clarke** BSc PhD	University of Cambridge	Do IL-1R2 and inflammatory caspases regulate IL-1 in senescence and atherosclerosis? ***4 years***	£479,983
FS/17/35/32929	**Dr S De Val** BSc PhD	University of Oxford	Determining the regulatory pathways controlling venous and lymphatic vessel growth and their role during heart development and regeneration. ***5 years***	£1,150,716
FS/17/55/33100	**Dr D Sparrow** BSc PhD	University of Oxford	Investigation of the mechanisms of environmental causes of congenital heart disease. ***5 years***	£940,865

Intermediate Basic Science Research Fellowships

Reference number	*Name*	*Institution*	*Grant title*	*Total*
FS/17/36/32874	**Dr R Charles** PhD	King's College London	Activation of soluble epoxide hydrolase by intra-protein disulfide formation: role in regulating cardiovascular function in health and disease. ***5 years***	£672,733
FS/17/57/32934	**Dr M Stroud** BSc PhD	King's College London	Understanding the role of the nuclear envelope in cardiovascular development and disease. ***5 years***	£719,417
FS/18/20/33449	**Dr M Nixon** BSc PhD	University of Edinburgh	Adipose glucocorticoid exposure is regulated by proteolytic cleavage of corticosteroid binding globulin (CBG). ***5 years***	£675,929
FS/17/56/32925	**Dr N Helassa** PhD	University of Liverpool	CALM HEART. Investigating the role of calmodulin in cardiac arrhythmia. ***5 years***	£578,581
FS/18/4/33310	**Dr C Pinali** PhD	University of Manchester	An ultrastructural study to elucidate how proteoglycans determine the elastic properties of the cardiac extracellular matrix in health and disease. ***5 years***	£723,660
FS/17/58/33072	**Dr L Heather** BSc DPhil	University of Oxford	Lipids: dysregulated signalling molecules in the type 2 diabetic heart? ***5 years***	£628,379
FS/18/3/33292	**Dr A Lewandowski** BSc DPhil	University of Oxford	Cardiac remodelling in preterm-born offspring: defining the importance of early postnatal changes and potential for neonatal dietary interventions to reduce long-term risk. ***5 years***	£658,359
FS/18/2/33221	**Dr J Serbanovic Canic** PhD	University of Sheffield	Role of the mechanoreceptor Pkd1 in endothelial dysfunction and atherosclerosis. ***5 years***	£389,932

Immediate Postdoctoral Basic Science Research Fellowships

Reference number	*Name*	*Institution*	*Grant title*	*Total*
FS/18/5/33319	**Dr M Katsoulis** PhD	University College London	Weight change and the onset and progression of cardiovascular diseases in large-scale electronic health records. ***4 years***	£246,519
FS/17/59/33117	**Dr D Tsiantoulas** BSc PhD	University of Cambridge	The role of APRIL (A Proliferation Inducing Ligand) in myocardial infarction. ***3 years***	£240,221
FS/18/24/33424	**Dr R Tyser** BSc PhD	University of Oxford	Initiation of the first heartbeat: from single cell calcium oscillations to propagating waves. ***4 years***	£267,013
FS/17/37/32937	**Dr P Collings** BSc MSc MPhil PhD	University of York	Combined associations of sleep duration, sedentariness and intensity-specific physical activity with non-communicable disease risk markers in childhood. ***4 years***	£198,344

4-year PhD Studentships

Reference number	*Name*	*Institution*	*Grant title*	*Total*
FS/17/64/33476	**Prof S Harding** BSc PhD	Imperial College London	ICL 1st intake 2017 – 4-year PhD Studentship (4th) Scheme: Mr Alexander Ainscough; Ms Julia Garcia; Ms Jennifer Veneta Todorova; Ms Tamzin Zawadzki. ***4 years***	£669,224
FS/17/65/33481	**Prof M Mayr** MD PhD	King's College London	KCL 1st intake 2017 – 4-year PhD Studentship (4th) Scheme: Ms Jessica Chandler; Mr Daniel Koch; Mr Mihai Pruna; Ms Ella Reed. ***4 years***	£661,580
FS/17/69/33484	**Prof A Ahluwalia** BSc PhD	Queen Mary, University of London	QMUL 1st intake 2017 – 4-year PhD Studentship (4th) Scheme: Mr Joshua Dignam; Ms Shireen Mohammad; Ms Nur Mousa; Mr Stefan Russo. ***4 years***	£649,024
FS/17/70/33482	**Prof A Hughes** BSc MBBS PhD	University College London	UCL 1st intake 2017 – 4-year PhD Studentship (4th) Scheme: Ms Annalisa Bettini; Ms Jasmine Gratton; Ms Maria Maranon; Mr Michael Magnussen. ***4 years***	£663,924
FS/17/60/33474	**Prof A Poole** MA PhD VetMB FBPhS MRCVS	University of Bristol	Bristol 1st intake 2017 – 4-year PhD Studentship (4th) Scheme: Ms Tessa Forbes; Mr Michael Mosley; Ms Audrys Pauza; Mr Kurt Taylor. ***4 years***	£610,876
FS/17/61/33473	**Dr M Bennett** BSc MBChB PhD MA FRCP FAHA FMedSci	University of Cambridge	Cambridge 1st intake 2017 – 4-year PhD Studentship (4th) Scheme: Ms Anna Francis; Ms Alice Sowton; Ms Jennifer Leggat; Ms Robyn Macrae. ***4 years***	£664,424
FS/17/62/33477	**Prof M Bailey** BSc PhD FRSB	University of Edinburgh	Edinburgh 1st intake 2017 – 4-year PhD Studentship (4th) Scheme: Ms Viktoria Balogh; Ms Loes Elemans; Ms Iris Prunonosa-Cervera; Mr Benjamin Thomas. ***4 years***	£624,376
FS/17/63/33485	**Prof R Touyz** BSc MBBCh MSc PhD FMedSci	University of Glasgow	Glasgow 1st intake 2017 – 4-year PhD Studentship (4th) Scheme: Mr Simon Fisher; Ms Erin Higgins; Ms Alice Main; Ms Kayley Scott. ***4 years***	£607,316

4-year PhD Studentships (continued)

FS/17/66/33480	**Prof P Stewart** MD FRCP FMedSci	University of Leeds	Leeds 1st intake 2017 – 4-year PhD Studentship (4th) Scheme: Mrs Yilizila Abudushalamu; Mr Michael Bell; Ms Holly Foster; Ms Heba Shawer. ***4 years***	£611,348
FS/17/67/33483	**Dr E Cartwright** BSc Msc PhD	University of Manchester	Manchester 1st intake 2017 – 4-year PhD Studentship (4th) Scheme: Ms Abimbola Akerele; Ms Cali Anderson; Mr Ryan Potter; Ms Katie Ryding. ***4 years***	£607,876
FS/17/68/33478	**Prof D Greaves** BSc PhD	University of Oxford	Oxford 1st intake 2017 – 4-year PhD Studentship (4th) Scheme: Ms Lucija Fleisinger; Mr Oliver Neely; Ms Helen Potts; Ms Agata Rumianek. ***4 years***	£659,464

PhD Studentships

Reference number	*Name*	*Institution*	*Grant title*	*Total*
FS/17/75/33257	**Miss Y Chan** BSc	Cardiff University	Investigation of the anti-atherogenic actions of (+)-catechin in vivo. ***3 years***	£107,553
FS/17/41/32976	**Mr W Bonneuil**	Imperial College London	Chemokine transport dynamics and vascular disease. ***3 years***	£115,303
FS/17/73/33186	**Miss A Francis** BSc	Imperial College London	The effect of oestrogen on the function and local environment of the L-type Ca^{2+} channel. ***3 years***	£130,822
FS/17/74/33192	**Ms E Pchenlintseva** BSc	Imperial College London	Acoustic patterning for next-generation drug screening and cardiac engineering. ***3 years***	£115,558
FS/17/39/32938	**Miss Q Toe** BSc	Imperial College London	Endothelial cell uptake of decompartmentalised iron species in Eisenmenger syndrome: implications for disease pathogenesis and treatment. ***3 years***	£118,928
FS/17/71/32953	**Miss K Dalrymple**	King's College London	The influence of a complex intervention of diet and physical activity in obese pregnant women on the cardiometabolic phenotype of 3 year old children: analysis of the UPBEAT trial. ***3 years***	£112,228
FS/17/44/33022	**Miss A Wright** MSci	Lancaster University	Unravelling the mechanisms of apolipoprotein and serum amyloid A aggregation in atherosclerosis. ***3 years***	£106,353
FS/18/8/33698	**Student to be appointed** (Supervisor: Dr S White)	Manchester Metropolitan University	Joint NC3Rs/BHF PhD Studentship: Development of E-Sense: a flexible in vitro platform to determine cardiovascular risk. ***3 years***	£90,000
FS/17/72/33181	**Miss A Bishop** BSc	St George's, University of London	Stanniocalcin-1 and vascular remodelling at the maternal / fetal interface. ***3 years***	£115,919
FS/17/40/32942	**Ms S Carlton-Carew** BSc	St George's, University of London	Investigations into calcium-sensing receptor mechanisms in the vasculature. ***3 years***	£130,820

PhD Studentships (continued)

FS/17/76/33286	**Mr M Hudda** BSc MSc PhD	St George's, University of London	Improving assessments of body fatness, overweight and obesity in UK children and adolescents of different ethnic origins. ***3 years***	£94,199
FS/17/28/32807	**Ms C Lewis** BSc	University of Aberdeen	Inhibiting angiogenesis in aortic valves via S1P receptors: a new therapeutic target. ***3 years***	£107,465
FS/17/29/32828	**Mr P Harrison** BSc PhD FRCPath	University of Birmingham	Measurement of preplatelets in inherited and acquired thrombocytopenia. ***3 years***	£107,497
FS/18/9/33388	**Miss C Koo** BSc MSc	University of Birmingham	Identifying the tetraspanin/ADAM10 'molecular scissor' for the platelet collagen and fibrin receptor GPVI. ***3 years***	£120,670
FS/18/11/33443	**Miss R Stapley** BSc	University of Birmingham	Investigating the role of SLFN14 in megakaryocyte and platelet biology. ***3 years***	£150,698
FS/17/38/32935	**Miss Z Adams** BSc	University of Bristol	Sex differences in the role of sympathetic nerve activity in the development of hypertension in humans. ***3 years***	£107,372
FS/17/46/33121	**Miss L Reolizo** BSc	University of Bristol	Exploiting the inhibition of vascular smooth muscle cell proliferation and intimal thickening by PRH/HHEX. ***3 years***	£107,340
FS/17/42/32978	**Ms A Rioja** BSc MSc	University of Bristol	Mechanisms of neovascularisation: signalling from VEGFR1 to the cytoskeleton through RhoA. ***3 years***	£107,413
FS/18/7/33697	**Student to be appointed** (Supervisor: Dr A Harper)	University of Cambridge	Joint NC3Rs/BHF PhD Studentship: Recreating thrombosis models using tissue-engineered arterial constructs: a novel method to reduce and replace mice used in platelet research. ***3 years***	£90,000
FS/17/32/32916	**Mr S Ahmed** BSc	University of East Anglia	Does enhanced smooth muscle cell contraction increase local matrix stiffness and promote smooth muscle cell proliferation? ***3 years***	£105,522
FS/17/27/32698	**Miss R Sanders** BSc MRes MPhil	University of Edinburgh	Assessing the regulation and function of long non-coding RNA LINC00961 in vascular endothelial cell function. ***3 years***	£107,498
FS/18/10/33413	**Ms F Vacante** BSc MSc	University of Edinburgh	The functional consequence of miR-143HG loss on the development of atherosclerosis. ***1 year, 9 months***	£67,715
FS/17/43/33003	**Miss K Miteva**	University of Leeds	The role of Ca^{2+} signalling in the regulation of Weibel-Palade Body trafficking and cargo secretion. ***3 years***	£107,808
FS/17/30/32832	**Mr B Roper** MBiolSci	University of Leeds	Targeting the LOX-1 (SR-E1) scavenger receptor and atherosclerosis using synthetic proteins called Affimers. ***3 years***	£107,879
FS/17/45/33102	**Miss R Dinsdale**	University of Oxford	Understanding the molecular pharmacology of vascular calcium-activated chloride channels. ***3 years***	£114,803

PhD Studentships (continued)

FS/17/31/32848	**Ms G Little** BSc	University of Reading	Study of the molecular mechanisms that allow the collagen-binding chaperone protein HSP47 to modulate platelet responses to collagen. ***3 years***	£116,868
FS/18/6/33696	**Student to be appointed** (Supervisor: Prof P Evans)	University of Sheffield	Joint NC3Rs/BHF PhD Studentship: Using zebrafish embryos to identify genes that protect against atherosclerosis. ***3 years***	£90,000
FS/17/33/32931	**Mr R Johnson** BSc MBiol	University of Surrey	Investigating arrhythmogenic risk from cardiac cell therapy; scrutinising the effects of human myofibroblasts on iPSC-derived cardiomyocyte function. ***3 years***	£107,854

Clinical Fellowships

Intermediate Clinical Research Fellowships

Reference number	*Name*	*Institution*	*Grant title*	*Total*
FS/18/21/33447	**Dr M Fontana** PhD	University College London	The pathophysiology of cardiac AL amyloidosis: phenotypic spectrum and clinical significance. ***5 years***	£717,044
FS/18/12/33270	**Dr M Bailey** BSc PhD MB ChB PG Cert (Health Research) MRCS	University of Leeds	Vascular smooth muscle cell Orai1 in abdominal aortic aneurysm. ***5 years***	£515,929
FS/18/22/33479	**Dr A Jones** BSc BM PhD	University of Oxford	Reversibility of early cardiometabolic dysfunction in sedentary and obese adolescents. ***5 years***	£763,253
FS/18/23/33512	**Dr M Holmes** BSc MBBS MRCP MSc PhD	University of Oxford	Drug target validation and risk prediction for coronary heart disease using targeted blood-based metabolomics and proteomics. ***5 years***	£1,026,833
FS/18/13/33281	**Dr R Thompson** BMedSci MB ChB MRCP (UK) PhD	University of Sheffield	The role of double-stranded RNA in pulmonary vascular remodelling. ***4 years***	£722,505

Clinical Research Training Fellowships

Reference number	*Name*	*Institution*	*Grant title*	*Total*
FS/18/15/33518	**Dr J Kelly** BSc MBChB MRCS	King's College London	The role of inflammation in the development of spinal cord ischaemia after thoracoabdominal aneurysm repair. ***2 years***	£144,900
FS/17/77/33128	**Dr F Papalia** BMedSci MBBS	King's College London	Iron status and cardiac mechano-energetics in heart failure. ***3 years***	£226,286
FS/18/16/33396	**Dr M Ryan** BSc MBChB MRCP	King's College London	Evaluation of a novel physiological biomarker of hibernation in ischaemic left ventricular dysfunction. ***3 years***	£245,683
FS/17/81/33318	**Dr Z Raisi Estabragh**	Queen Mary, University of London	Broken bones and broken hearts: relationships between osteoporosis and cardiovascular structure and function in UK Biobank. ***3 years***	£231,716

Clinical Research Training Fellowships (continued)

FS/17/82/33322	**Dr R Hughes**	University College London	The extended spectrum of apical hypertrophic cardiomyopathy. ***3 years***	£225,735
FS/17/34/32901	**Dr K Knott** MA MBBS MRCP	University College London	Perfusion mapping in ischaemic heart disease. ***3 years***	£206,139
FS/18/18/33522	**Dr T Hinton** BMedSci MBChB MRCP	University of Bristol	Investigating the role of the carotid body in young onset hypertension. ***2 years***	£116,203
FS/17/49/32917	**Dr K Hope** BM BS BMedSci MSc FRCA	University of Bristol	Comparing the mechanistic role of carotid bodies in human heart failure with and without preserved ejection fraction. ***3 years***	£220,320
FS/17/51/33096	**Dr J Andrews** MBChB MRCP	University of Edinburgh	Early clinical development of a thrombus ^{18}F-radiotracer. ***3 years***	£168,504
FS/17/79/33226	**Dr M Doris** MBChB	University of Edinburgh	Combined positron emission tomography and magnetic resonance imaging of coronary atherothrombosis. ***1 year***	£120,628
FS/17/50/33061	**Mr J Kaczynski**	University of Edinburgh	^{18}F-fluoride positron emission tomography-magnetic resonance imaging in patients with acute neurovascular syndrome. ***2 years***	£293,665
FS/18/25/33454	**Dr K Lee** MBChB MRCP	University of Edinburgh	High-sensitivity cardiac troponin I and risk stratification of patients with suspected acute coronary syndrome. ***3 years***	£263,693
FS/17/53/33119	**Dr T Moullaali** MBBS	University of Edinburgh	Does blood pressure variability (BPV) affect outcome after stroke due to intracerebral haemorrhage?. ***3 years***	£168,553
FS/18/14/33330	**Dr A Jackson** BSc MBChB	University of Glasgow	The epidemiology of peripartum cardiomyopathy in a Western European country: an analysis of the Scottish population 1990-2016. ***3 years***	£186,095
FS/17/78/33180	**Dr T Slater** MMBS MRCP	University of Leeds	Examining the effect of increasing endothelial cell insulin like growth factor-1 receptor expression in the endothelium on blood pressure homeostasis and endothelial cell function in health and diet induced type 2 diabetes mellitus. ***3 years***	£196,816
FS/18/26/33501	**Dr L Athithan** MBBCh MRCP	University of Leicester	Cardiac rest and stress metabolism in patients with type 2 diabetes. ***2 years, 6 months***	£136,122
FS/17/54/33126	**Mr N Denham** BMBM	University of Manchester	An experimental study regarding the effectiveness of PDE5 inhibition to prevent atrial fibrillation. ***3 years***	£238 301
FS/17/47/32805	**Dr J Lagan** MA MRCP AFHEA	University of Manchester	Why is COPD associated with heart failure? ***2 years***	£126,854

Clinical Research Training Fellowships (continued)

FS/17/52/33113	**Dr C Pius** MBChB	University of Manchester	An experimental study on the impact of myocyte ultrastructural remodelling on cellular function and arrhythmogenesis following an ischaemic episode. ***3 years***	£271,190
FS/17/80/33317	**Dr S Lockhart**	University of Oxford	Examining the direct vascular actions of the glucagon-like peptide-1 analogue liraglutide in obese patients with coronary atherosclerosis. ***3 years***	£200,411
FS/18/17/33514	**Dr S Monga** MBChB MMed MRCP DPhil	University of Oxford	The effect of altering myocardial lipid content on cardiac physiology in patients with aortic stenosis. ***3 years***	£290,431
FS/17/48/32907	**Dr W Watson** BSc MBBChir PGCert (MedEd) MRCP	University of Oxford	Altering substrate selection as a potential therapeutic target in heart failure. ***3 years***	£253,679

Regenerative Medicine Centres

Reference number	*Name*	*Institution*	*Grant title*	*Total*
RM/17/1/33377	**Prof S Harding** BSc PhD	Imperial College London	BHF Centre of Regenerative Medicine (renewal) ***4 years***	£2,500,000
RM/17/3/33381	**Prof A Baker** BSc PhD	University of Edinburgh	BHF Centre of Regenerative Medicine (renewal) ***4 years***	£2,500,000
RM/17/2/33380	**Prof P Riley** BSc PhD FMedSci	University of Oxford	BHF Centre of Regenerative Medicine (renewal) ***4 years***	£2,500,000

Infrastructure Grants

Reference number	*Name*	*Institution*	*Grant title*	*Total*
IG/17/2/32993	**Prof S Nourshargh** BSc PhD FMedSci	Queen Mary, University of London	Funds towards the purchase of a multiphoton confocal microscope. ***1 year***	£314,211
IG/18/2/33544	**Prof S Watson** BSc PhD FMedSci	University of Birmingham	Funds towards six items of imaging equipment at the Centre of Membrane Proteins and Receptors (COMPARE) at the Universities of Birmingham and Nottingham. ***1 year***	£754,233
IG/18/1/33458	**Prof D Newby** BA BSc PhD BM DM DSc FRSE FESC FACC FMedSci	University of Edinburgh	Funds to upgrade and expand a radiochemistry facility to deliver current and future cardiovascular PET research. ***2 years***	£700,000
IG/17/3/33201	**Dr S Semple** BSc PhD MSc	University of Edinburgh	Funds to upgrade a BHF-funded 3T magnetic resonance imaging scanner. ***1 year***	£393,225

Special Project Grants

Listed alphabetically by Institute

Reference Number	*Name*	*Location*	*Grant title*	*Total*
SP/18/6/33805	**Dr S Niederer** DPhil	The Alan Turing Institute and King's College London	The BHF-Turing Cardiovascular Data Science Awards (First call): Quantifying functional co-variation in calcium handling proteins in cardiac myocytes (joint funding with The Alan Turing Institute). ***1 year***	£49,310
SP/18/7/33806	**Dr W Astle** MA MMath PhD	The Alan Turing Institute and University of Cambridge	The BHF-Turing Cardiovascular Data Science Awards (First call): Looking for cardiovascular risk factors in blood smear images (joint funding with The Alan Turing Institute). ***1 year***	£47,362
SP/18/5/33804	**Dr A Butterworth** BA PhD MSc	The Alan Turing Institute and University of Cambridge	The BHF-Turing Cardiovascular Data Science Awards (First call): Flexible fine-mapping of multiple intermediate traits at cardiovascular disease loci (joint funding with The Alan Turing Institute). ***1 year***	£26,481
SP/18/3/33801	**Dr E Di Angelantonio** MD PhD MSc	The Alan Turing Institute and University of Cambridge	The BHF-Turing Cardiovascular Data Science Awards (First call): Using machine learning for personalised CVD risk management (joint funding with The Alan Turing Institute). ***1 year***	£54,848
SP/18/2/33800	**Prof N Mills** MBChB BSc PhD FESC FRCP	The Alan Turing Institute and University of Edinburgh	The BHF-Turing Cardiovascular Data Science Awards (First call): Machine learning in myocardial infarction to improve risk prediction and inform treatment decisions (joint funding with The Alan Turing Institute). ***1 year***	£80,529
SP/18/4/33803	**Dr A Doherty**	The Alan Turing Institute and University of Oxford	The BHF-Turing Cardiovascular Data Science Awards (First call): Unsupervised learning of physical activity markers and their association with cardiovascular disease (joint funding with The Alan Turing Institute). ***1 year***	£68,524
SP/17/11/32885	**Prof S Cook** PhD MRCP	Imperial College London	Defining the genetics, biomarkers and outcomes for dilated cardiomyopathy: a prospective multi-centre study (GO-DCM). ***4 years***	£1,999,834
SP/17/10/33219	**Prof M Mayr** MD PhD	King's College London	ERA-CVD 'transnational research projects on cardiovascular diseases': non-coding RNAs in cardiac macrophages and their role in heart failure. ***3 years***	£249,492
SP/18/1/33797	**Health Data Research UK**	Medical Research Council	Joint funding towards Health Data Research UK (HDRUK) awards. ***5 years***	£2,000,000
SP/17/9/33243	**UK Prevention Research Partnership**	Medical Research Council	Joint funding towards the National Prevention Research Initiative. ***3 years***	£3,000,000
SP/17/12/32960	**Prof D Newby** BA BSc PhD BM DM DSc FRSE FESC FACC FMedSci	University of Edinburgh	Duration of dual anti-platelet therapy in acute coronary syndrome across Scotland: the DUAL-ACS2 trial. ***5 years***	£630,845

Special Project Grants (continued)

SP/18/8/33620	**Dr T Webb** BSc MRes PhD	University of Leicester	ERA-CVD 'transnational research projects on cardiovascular diseases': druggable MI genes: utilising myocardial infarction genes for better treatment. ***3 years***	£249,829
SP/17/15/33490	**Dr P Quinlan**	University of Nottingham	Joint funding with MRC: UKCRC Tissue Directory and Coordination Centre Phase II. ***3 years***	£75,000
SP/17/16/33519	**Prof K Channon** MD FRCP FMedSci	University of Oxford	The NIHR-BHF Cardiovascular Partnership. ***3 years***	£112,705
SP/17/13/33347	**Prof R McManus** MSc MA (Oxon) PhD MBBS FRCGP	University of Oxford	Seventh Joint Stroke Association/BHF Grant: Towards An Integrated Self-Monitoring SolutIoN for Stroke/TIA: TASMIN5S (Ninth call). ***5 years***	£1,109,564
SP/17/14/33355	**Dr H Gallagher** MA MSc PhD FRCP	University of Southampton	Joint funding with NIHR (Health Technology Assessment (HTA) Programme): Aspirin To Target Arterial events in Chronic Kidney disease – the ATTACK trial. ***7 years, 6 months***	£750,000

Clinical Study Grants

Listed alphabetically by Institute

Reference Number	*Name*	*Location*	*Grant title*	*Total*
CS/17/6/33361	**Prof D Werring** BSc MBBS FRCP PhD	University College London	OPTIMAS: OPtimal TIMing of Anticoagulation after AF-associated acute ischaemic Stroke: a randomised controlled trial. ***5 years***	£2,045,998
CS/17/4/33009	**Dr R Gardner** MBChB MD MRCP FESC	University of Glasgow	How do arrhythmias and conduction disturbances contribute to death or rehospitalisation in patients discharged following an admission with acute heart failure? A prospective, observational, multi-centre cohort study. ***4 years, 6 months***	£429,737
CS/17/5/32826	**Prof T Robinson** MD FRCP FESO AFHEA	University of Leicester	Tenecteplase in Wake-up Ischaemic Stroke Trial (TWIST). ***3 years***	£323,014

Programme Grants

Listed alphabetically by Institute

Reference number	*Name*	*Institution*	*Grant title*	*Total*
RG/18/3/33405	**Dr J Crawley** BSc PhD	Imperial College London	Protein S-TFPI anticoagulant pathway: molecular mechanisms and therapeutic potential. ***5 years***	£1,271,273
RG/17/13/33173	**Prof J Gorelik** MSc PhD	Imperial College London	Function follows form: improving the failing heart by targeting signalling nanodomains in myocytes. ***5 years***	£1,081,461
RG/18/4/33541	**Prof J Mitchell** BSc PhD	Imperial College London	Understanding the COX-2/prostacyclin/NO axis in the cardiovascular system. ***5 years***	£995,313

Programme Grants (continued)

RG/17/16/33294	**Prof P Eaton** BSc PhD	King's College London	Furthering our understanding of PKGIa in cardiovascular health and disease. ***5 years***	£999,700
RG/17/15/33106	**Prof M Shattock** BSc PhD FRCP (Edin)	King's College London	The Na/K ATPase in cardiovascular health and disease. ***4 years***	£1,199,974
RG/17/7/33217	**Prof P Mortimer** MD FRCP	Medical Research Council	Joint funding with MRC: Deep phenotyping to improve understanding of causal mechanisms and underlying gene mutations in primary lymphoedema and lymphatic malformations. ***5 years***	£750,000
RG/17/5/32936	**Dr S Sinha** BA MB BChir MRCP PhD	University of Cambridge	New therapeutic strategies for Marfan and other genetically-triggered aortic aneurysm syndromes. ***5 years***	£1,271,390
RG/17/8/32924	**Prof D Giussani** MA PhD ScD FRCOG	University of Cambridge	Cardiovascular dysfunction in the hypoxic fetus: intervention by mitochondria-targeted antioxidants. (Renewal). ***5 years***	£1,311,663
RG/17/12/33167	**Prof S Ozanne** BSc Hons PhD	University of Cambridge	Insulin and hypoxia: key determinants in the programming of cardiovascular disease by maternal obesity. ***5 years***	£1,103,850
RG/17/11/33042	**Prof D Beech** BSc PhD FMedSci	University of Leeds	Endothelial Piezo1 channel in whole body physical activity and cardio-metabolic protection. ***5 years***	£1,383,429
RG/17/9/32812	**Prof G Murphy** BSc MBChB MD FRCS	University of Leicester	Towards the prevention of post cardiac surgery organ failure. ***5 years***	£1,399,996
RG/18/2/33392	**Prof M Boyett** BSc PhD FRSB FRCP	University of Manchester	Control of ion channel expression in the cardiac conduction system in disease: search for potential new therapeutic targets. (Renewal). ***5 years***	£1,316,626
RG/18/1/33351	**Prof S Bhattacharya** MBBS MD MRCP MSc FESC FMedSci	University of Oxford	Precision therapeutics for cardiovascular inflammation. ***5 years***	£1,004,873
RG/17/10/32859	**Prof K Channon** MD FRCP FMedSci	University of Oxford	Non-canonical roles for tetrahydrobiopterin in cardiovascular disease pathogenesis. ***5 years***	£1,399,658
RG/17/14/33085	**Prof D Paterson** MA MSc DPhil DSc FRSB FPhysiol Hon FRSNZ	University of Oxford	Cyclic nucleotide coupled phosphodiesterase signalling in cardiac sympathetic neurons in heart disease: novel therapeutic targets. ***3 years***	£617,619
RG/18/5/33532	**Prof P Riley** BSc PhD FMedSci	University of Oxford	Epicardial activation and signalling during cardiovascular repair: comparing regenerative and non-regenerative models: programme extension. (Renewal). ***3 years***	£588,176
RG/17/6/32944	**Prof M Zaccolo** MD	University of Oxford	Topography, regulation and function of PDE-dependent cAMP nanodomains in cardiac myocytes. (Renewal). ***5 years***	£1,226,593

New Horizons Grants

Reference number	*Name*	*Institution*	*Grant title*	*Total*
NH/18/1/33511	**Dr V Muthurangu** BSc MD(Res) MRCPCH	University College London	Towards comprehensive assessment of heart disease in children using real-time cardiovascular magnetic resonance. ***2 years***	£291,881

Translational Awards

Listed alphabetically by Institute

Reference number	*Name*	*Institution*	*Grant title*	*Total*
TG/16/2/32657	**Prof P Chowienczyk** BSc MBBS FRCP	King's College London	First-phase ejection fraction as a diagnostic marker and therapeutic target in cardiac disease. ***2 years***	£146,961
TG/16/1/32108	**Dr P Lamata** PhD	King's College London	Improving the identification of faulty valves. ***2 years***	£245,076
TG/16/3/32687	**Dr G Gray** BSc PhD FBPhS FRSB	University of Edinburgh	11βHSD1 inhibition: a distinctive acute-MI intervention for promotion of peri-infarct vascularisation, reduction of infarct expansion and prevention of heart failure. ***2 years***	£318,737
TG/16/3/32687	**Dr D Adlam** BA BM BCh DPhil FRCP	University of Leicester	Development of a prototype pericardial left ventricular assist device. ***2 years***	£249,771
TG/16/3/32687	**Dr L Ebah** MD MRCP PhD	University of Manchester	Transdermal Fluid Removal (TFR): a novel community-based and patient self-administered treatment for fluid overload in heart failure. ***2 years***	£134,293

Project Grants

Listed alphabetically by Institute

Reference number	*Name*	*Institution*	*Grant title*	*Total*
PG/18/15/33566	**Dr J Ahnstrom** BSc MSc PhD	Imperial College London	Regulation of versican procoagulant role by ADAMTS-mediated proteolysis. ***3 years***	£223,603
PG/17/33/32990	**Dr G Birdsey** BSc PhD	Imperial College London	VEGF-dependent angiogenesis requires activation of specific isoforms of the ETS transcription factor ERG. ***1 year, 6 months***	£130,472
PG/18/3/33515	**Dr A Bottle** BSc (Hons) MSc PhD	Imperial College London	Using large databases to describe the current management of heart failure in England and model risk trajectories to improve shared decision-making. ***2 years, 6 months***	£222,035
PG/17/71/33242	**Dr J Boyle** BSc MBChB PhD FRCPath	Imperial College London	Development of a fluorescent reporter probe for enzyme-activity of heme oxygenase 1 (HO-1). ***2 years, 3 months***	£213,438

Project Grants (continued)

PG/17/22/32868	**Prof J Crawley** BSc PhD	Imperial College London	The role of VWF-dependent platelet 'priming' and neutrophil recruitment in DVT. ***2 years***	£196,861
PG/18/17/33572	**Dr J Crawley** BSc PhD	Imperial College London	The structural basis of ADAMTS13 allostery. ***2 years, 6 months***	£294,048
PG/18/19/33584	**Dr R de Groot** BSc MSc PhD	Imperial College London	ADAMTS7 and cardiovascular disease: identifying molecular mechanisms. ***2 years***	£180,799
PG/17/81/33345	**Dr J Keegan** BSc MSc PhD	Imperial College London	Arrhythmia insensitive whole-heart late gadolinium enhancement (LGE) MRI for assessment of native, surgical and post-ablation scar tissue in patients with heart rhythm disturbance. ***3 years***	£239,908
PG/17/57/33130	**Dr N Latif** BSc PhD	Imperial College London	Role of the mechanosensitive ion channel Piezo1 in human valve endothelial cells. ***2 years***	£126,567
PG/17/42/33039	**Dr I Salles-Crawley** BSc MSc PhD	Imperial College London	BAMBI and its role in the anticoagulant function of the endothelium. ***1 year***	£97,016
PG/17/61/33187	**Prof C Terracciano** MD PhD	Imperial College London	Mechanosensitive molecular mechanisms of myocardial fibrosis: a multicellular approach. ***1 year, 6 months***	£97,140
PG/17/60/33168	**Dr S Wort** MA (Oxon) MBBS FRCP PhD FFICM	Imperial College London	The role of H3K27 methylation in vascular endothelial cell proliferation and function: implications for pulmonary arterial hypertension. ***2 years***	£193,282
PG/18/2/33446	**Prof L Zhao** MD PhD	Imperial College London	Investigation of selective HDAC6 inhibitor, C1A, as a treatment for pulmonary arterial hypertension. ***2 years***	£164,885
PG/17/38/33024	**Dr S Chapple** BSc PhD	King's College London	Activation of Nrf2 antioxidant defences by sulforaphane confers vascular protection in offspring exposed to a maternal obesogenic diet. ***3 years***	£240,505
PG/17/50/32903	**Prof P Chowienczyk** BSc MBBS FRCP	King's College London	Partitioning the determinants of pulse pressure into those due to ventricular ejection and characteristics of the arterial tree. ***3 years***	£275,269
PG/17/44/33064	**Prof P Eaton** BSc PhD	King's College London	An investigation of the potential therapeutic effects of Sulforadex in Noonan syndrome. ***3 years***	£290,749
PG/17/65/33215	**Dr T Kampourakis** PhD Dipl	King's College London	Cardiac thick filament modulators: a potential new class of heart failure therapeutics. ***1 year, 3 months***	£145,956
PG/17/37/33023	**Dr A Kapustin** BSc PhD	King's College London	KLF4 regulates VSMC migration and proliferation via exosomes. ***1 year, 6 months***	£131,410
PG/17/79/33313	**Dr J Liu** AB PhD	King's College London	Functional characterisation of the human congenital heart disease gene RAPGEF5. ***1 year***	£76,615

Project Grants (continued)

PG/17/53/33079	**Prof G Lombardi** BSc PhD	King's College London	Targeting recipient antigen-presenting cells with sialic acid-modified alloantigen to promote transplantation tolerance. ***3 years***	£269,742
PG/17/48/32956	**Prof M Mayr** MD PhD	King's College London	AortOMICS: proteomics-based assessment of thoracic aneurysm formation. ***3 years***	£238,948
PG/18/6/33530	**Dr M Pfuhl** PhD	King's College London	Dissecting the activation mechanism of titin kinase by NMR spectroscopy. ***3 years***	£278,787
PG/17/51/32950	**Dr M Robson** MRCP PhD	King's College London	Novel pathways involving ANCA and monocytes in ANCA vasculitis. ***3 years***	£292,415
PG/17/52/33059	**Dr W Wong** BSc MBBS MRCP DPhil	King's College London	Prolonging cardiac allograft survival by targeting the indirect antigen presentation pathway with an immunotoxin. ***2 years***	£246,748
PG/17/39/33027	**Dr M Zhang** MD PhD	King's College London	The modulation of cAMP/PKA signalling by cardiac NOX2. ***3 years***	£232,715
PG/17/67/33218	**Dr S White** BSc DPhil	Manchester Metropolitan University	Defining the mechanisms of normal and pathological force sensing by endothelial cell adhesion complexes. ***3 years***	£234,445
PG/17/36/33021	**Prof R Corder** BSc MSc PhD MRPharmS	Queen Mary, University of London	Identification of the constitutive, secretory-pathway, endothelin-converting enzyme. ***2 years***	£132,151
PG/17/82/33368	**Dr L Green** MBBS MSc (HRM) MD (Res) FRCP FRCPath	Queen Mary, University of London	A pragmatic pilot randomised control trial of prothrombin complex concentrates versus fresh frozen plasma in adult patients who are undergoing heart surgery (PROPHESY). ***2 years, 3 months***	£170,929
PG/17/74/33111	**Prof A Hobbs** BSc PhD	Queen Mary, University of London	Defining a pivotal role for endothelium-derived C-type natriuretic peptide in angiogenesis and vascular remodelling. ***3 years***	£245,430
PG/17/85/33395	**Prof S Nourshargh** BSc PhD FMedSci	Queen Mary, University of London	Impact of mast cells on neutrophil-pericyte interactions and neutrophil effector functions: role of IL-17A?. ***3 years***	£238,442
PG/17/41/33038	**Dr D Przulj** PhD	Queen Mary, University of London	Time-restricted eating as a weight loss intervention in obese adults: a pilot study. ***1 year***	£61,574
PG/17/59/33139	**Prof A Tinker** BA MB BS FRCP PhD FMedSci	Queen Mary, University of London	Ric8b: a modulator of heterotrimeric G-protein signalling and its role in cardiovascular physiology. ***2 years***	£143,054
PG/17/40/33028	**Prof T Warner** BSc PhD	Queen Mary, University of London	Re-evaluating the effects of aspirin on the cardiovascular system. ***3 years***	£239,026
PG/17/91/33428	**Dr C Watson** BSc PhD PGDip UT&L	Queen's University Belfast	Investigating the role of tetranectin in cardiac remodelling and its utility as a heart failure biomarker. ***3 years***	£242,517

Project Grants (continued)

PG/18/21/33599	**Dr C Watson** BSc PhD PGDip UT&L	Queen's University Belfast	Epigenetic changes in hypoxic cardiac fibroblasts: implications for DNA methylation in the pathogenesis of ischaemic heart disease. ***2 years***	£153,454
PG/18/10/33550	**Dr R Bell** BSc PhD MBBS MRCP	University College London	Sodium / glucose transporters in the heart and their role in hyperglycaemic exacerbation of ischaemia / reperfusion injury following acute myocardial infarction. ***3 years***	£283,777
PG/17/88/33401	**Dr K Brown** BA MB BChir MRCP MSC MD	University College London	Using National Congenital Heart Diseases Audit data to explore the impact of non-medical risk factors on late post-operative outcomes for children with complex congenital heart defects. ***3 years***	£289,840
PG/17/90/33415	**Prof A Hughes** BSc MBBS PhD	University College London	Cardiovascular mechanisms linked to cerebral amyloid β deposition and cognitive decline: a sub study of INSIGHT 46. ***2 years, 6 months***	£273,844
PG/17/47/32963	**Dr V Muthurangu** BSc MD (Res) MRCPCH	University College London	Harnessing the potential of magnetic resonance augmented cardiopulmonary exercise testing (MR-CPET) in pulmonary arterial hypertension. ***3 years***	£211,432
PG/17/70/33232	**Prof C Ruhrberg** PhD	University College London	VEGF signalling pathways in vascular permeability. ***1 year***	£120,360
PG/18/22/33604	**Dr K Sutcliffe** BA MSc PhD	University College London	Children's and parents' informed and willing consent to heart surgery. ***1 year, 6 months***	£112,707
PG/17/20/32864	**Prof I Zachary** BSc PhD	University College London	Role of Bcar1/p130Cas in heart development. ***3 years***	£245,846
PG/17/87/33400	**Prof I Zachary** BSc PhD	University College London	Investigation of the role of Bcar1/p130Cas in atherosclerosis. ***2 years***	£187,454
PG/17/64/33205	**Dr D Dawson** DM FRCP DPhil FESC	University of Aberdeen	A randomised, double-blind placebo controlled trial to test if a beneficial effect of beta-blockers on exacerbations of chronic obstructive pulmonary disease (COPD) is restricted to those patients with occult heart disease. ***3 years***	£299,169
PG/17/30/32961	**Prof Dr P Kirchhof** MD FESC FRCP (Edin)	University of Birmingham	Impact of chronic intermittent hypoxia on atrial resting membrane potential and $Na_v1.5$ channel function: a new mechanism for causing atrial fibrillation. ***3 years***	£203,196
PG/17/55/33087	**Dr D Pavlovic** BSc DPhil FHEA	University of Birmingham	Cardiotonic steroids in patients with atrial fibrillation and heart failure: quantification, functional effects and personalisation of digoxin therapy. ***2 years***	£172,818
PG/17/34/32996	**Dr M Bond** BSc PhD	University of Bristol	Nuclear action dynamics and vascular cell behaviour. ***3 years***	£190,161
PG/17/66/33216	**Prof S George** BSc PhD	University of Bristol	Attenuation of intimal thickening via porcupine inhibition. ***3 years***	£140,074

Project Grants (continued)

PG/17/89/33414	**Prof J Hancox** BSc PhD FRSB FBPhS	University of Bristol	Drug-induced hERG potassium channel inhibition: novel access and binding determinants? ***3 years***	£207,792
PG/17/75/33095	**Prof P Madeddu** MD	University of Bristol	Investigation of a novel proangiogenic mechanism centred on miR-532, BACH1, angiopoietin-1 and Notch/Dll4 in human pericytes. ***2 years***	£148,688
PG/17/62/33190	**Prof S Mundell** BSc PhD	University of Bristol	Regulation of P2Y12 receptor expression and activity by inhibitory pathways in human platelets: a novel mode of action of antiplatelet drugs? ***3 years***	£202,332
PG/18/8/33540	**Dr A Teschemacher** MSc PhD	University of Bristol	Development of a strategy to limit lactate-mediated sympathoexcitation. ***1 year, 8 months***	£117,734
PG/18/14/33562	**Prof M Bennett** BSc MBChB PhD MA FRCP FAHA FMedSci	University of Cambridge	Development of 3D finite element analysis and imaging to predict human atherosclerotic plaque instability. ***3 years***	£246,185
PG/17/45/33071	**Dr M Harper** MA PhD	University of Cambridge	The role of the mitochondrial permeability transition pore in procoagulant platelets. ***2 years***	£164,274
PG/17/58/33134	**Dr W Li** BSc PhD	University of Cambridge	Role of BMP9 in protecting pulmonary vascular integrity: implication in sepsis and acute respiratory distress syndrome (ARDS). ***2 years***	£136,266
PG/17/69/33229	**Dr X Li** MD PhD	University of Cambridge	Investigating the role of PLK1 in regulating inflammation. ***2 years***	£182,399
PG/18/20/33595	**Prof Z Mallat** MD PhD	University of Cambridge	Regulatory pathways that control Type-2 innate lymphoid cells in atherosclerotic and ischaemic heart disease. ***3 years***	£284,752
PG/17/73/33251	**Dr M Nus** BSc PhD	University of Cambridge	Targeting marginal zone B cells to protect against atherosclerosis. ***3 years***	£292,736
PG/17/80/33343	**Dr K O'Shaughnessy** MA BM BCh DPhil FRCP FHEA	University of Cambridge	The role of dietary potassium in regulating salt transport across the DCT in the kidney. ***2 years***	£166,513
PG/17/24/32886	**Dr S Sinha** BA MB BChir MRCP PhD	University of Cambridge	Heterogeneity of the human epicardium: molecular determinants and functional consequences. ***2 years***	£183,375
PG/17/46/32880	**Dr S Robinson** PhD	University of East Anglia	Deciphering the angiogenic tug-of-war between neuropilin-1 interacting integrins: phase II. ***2 years***	£182,222
PG/18/26/33589	**Dr V MacRae** BSc PhD	University of Edinburgh	How does NPP1 ablation drive arterial calcification? ***2 years***	£176,162

Project Grants (continued)

PG/17/63/33198	**Dr M Reed** MA MB BChir MRCS FCEM MD	University of Edinburgh	The IPED (Investigation of Palpitations in the Emergency Department) study: randomised controlled trial of the use of a smart phone based event recorder versus standard care for patients presenting to the emergency department with palpitations and pre-syncope. ***1 year***	£21,347
PG/17/83/33370	**Dr A Tavares** BSc MSc PhD	University of Edinburgh	Novel imaging biomarker for detection of regional cardiovascular inflammation using positron emission tomography (PET). ***2 years, 6 months***	£276,970
PG/17/54/32981	**Dr S Vermeren (née Krugmann)** MSc PhD	University of Edinburgh	Dual function of the GTPase-activating protein ARAP3 in the regulation of endothelial permeability. ***3 years***	£237,663
PG/17/21/32844	**Prof T Frayling** BSc PhD	University of Exeter	The genetics of favourable adiposity. ***3 years***	£234,607
PG/17/26/32881	**Prof G Baillie** BSc PhD	University of Glasgow	Targeting PDE3/4 to allow regulation of cardiac calcium homeostasis in disease. ***2 years***	£117,375
PG/17/25/32884	**Prof C Berry** BSc MB ChB PhD FRCP (Gla) FRCP (Edin) FACC FESC	University of Glasgow	CORonary MICrovascular Angina (CorMicA): a mechanistic pilot trial and nested MRI sub-study. ***3 years***	£297,478
PG/18/9/33548	**Dr C Loughrey** BVMS PhD FHEA MRCVS	University of Glasgow	Investigating the therapeutic potential of RUNX1 for myocardial infarction. ***3 years***	£285,403
PG/17/23/32850	**Prof J McMurray** BSc MB ChB MD FRCP FESC FACC FAHA FRSE	University of Glasgow	The effects of sacubitril / valsartan compared to valsartan on left ventricular remodelling in patients with asymptomatic left ventricular systolic dysfunction after myocardial infarction: a randomised, double-blinded active-comparator cardiac-MR based trial. ***2 years***	£292,604
PG/18/13/33558	**Prof T Quinn** MPhil RN FRCN FESC FAHA FACC	University of Kingston	Use and impact of the pre-hospital 12-lead electrocardiogram in the primary PCI era: mixed method study (PHECG-2) ***1 year, 6 months***	£196,500
PG/17/84/33372	**Dr S Calaghan** BSc PhD	University of Leeds	The caveolar coat complex as a mediator of mechano-sensation in the heart ***2 years***	£128,308
PG/17/72/33255	**Dr A Maqbool** BSc PhD	University of Leeds	Attenuating cardiac inflammation and remodelling by targeting the Tenascin C - TLR4 axis. ***3 years***	£270,111
PG/17/27/32928	**Dr R Pease** BA PhD	University of Leeds	Identifying the origin of plasma FXIII-A and defining the roles of cellular FXIII-A. ***3 years***	£268,898
PG/17/28/32943	**Prof J Schneider** Dipl Phys PhD	University of Leeds	Cardiac microstructure beyond diffusion tensor imaging. ***3 years***	£185,541

Project Grants (continued)

PG/17/43/33041	**Dr C Stover** MD PhD	University of Leicester	C5L2: regulator of fatty liver disease? ***2 years***	£60,707
PG/17/86/33399	**Prof S Allan** BSc PhD	University of Manchester	The VWF/ADAMTS13 axis as a potential therapeutic target in the treatment of thrombo-inflammation in stroke. ***2 years, 4 months***	£168,819
PG/17/29/32945	**Prof M Boyett** BSc PhD FRSB FRCP	University of Manchester	Why does heart block occur at night (especially in athletes)? ***3 years***	£212,171
PG/18/12/33555	**Prof K Brennan** BA MA PhD	University of Manchester	PKCa: a potential new therapeutic target for cardiovascular disease. ***2 years***	£175,314
PG/18/24/33608	**Dr K Dibb** BSc PhD	University of Manchester	Understanding the structural and functional properties of atrial Ca^{2+} release sites, how they are remodelled in heart failure and the consequences for atrial function and arrhythmias. ***3 years***	£226,543
PG/17/32/32987	**Dr H Dobrzynski** BSc PhD	University of Manchester	Detailed 3D modelling of human cardiac anatomy with emphasis on the conduction system using micro-computer tomography and mathematical modelling techniques: variation with ageing and heart failure. ***2 years***	£118,243
PG/18/5/33527	**Dr G Galli** BSc PhD	University of Manchester	Maladaptive cardiac remodelling in adult offspring from hypoxic pregnancies: role of cellular calcium homeostasis. ***3 years***	£247,233
PG/18/7/33535	**Dr A Greenstein** BSc MBChB MRCP PhD	University of Manchester	Junctophilin 2 as a cytoskeletal anchor facilitating vascular smooth muscle cell ion channel cross-talk. ***3 years***	£214,963
PG/17/78/33304	**Dr D Oceandy** MBChB PhD	University of Manchester	Targeting the Hippo pathway to enhance the regenerative capacity of iPS-derived cardiomyocyte. ***3 years***	£221,780
PG/17/77/33125	**Dr H Shiels** BSc MSc PhD	University of Manchester	Cardiotoxicity of polycyclic aromatic hydrocarbons (PAHs). ***3 years***	£297,549
PG/17/35/33001	**Prof M Tomaszewski** MD FAHA FRCP	University of Manchester	Translating signals from genome-wide association studies into biological mechanisms of hypertension – expression quantitative trait locus analysis in the human kidney. ***2 years, 6 months***	£298,431
PG/17/31/32988	**Dr X Wang** MB ChB PhD	University of Manchester	Investigating prolylcarboxypeptidase (PRCP) cascade in attenuating oxidative stress and mitochondrial damage: is PRCP a suitable target for treating heart failure? ***3 years***	£266,843
PG/18/25/33587	**Prof I Spyridopoulos** MD	University of Newcastle upon Tyne	Role of CX3CR1 and T-lymphocytes in myocardial ischaemia / reperfusion injury. ***2 years***	£158,765

Project Grants (continued)

PG/18/4/33521	**Dr R Burton** BSc MSc MBA DPhil FRSA	University of Oxford	Elucidating the interactions between IP3-dependent Ca^{2+} release and Ca^{2+} stimulated adenylyl cyclases in controlling atrial function. ***3 years***	£202,761
PG/18/11/33552	**Prof K Dora** BSc PhD MA	University of Oxford	The role of aquaporins in determining the water barrier in coronary arteries. ***1 years, 6 months***	£128,045
PG/17/68/33247	**Dr J Hartmann-Boyce** DPhil MA BA	University of Oxford	Systematic review of weight regain after intentional weight loss and its impact on cardiovascular and other related health outcomes. ***2 years***	£142,943
PG/18/1/33430	**Prof C Monaco** MD PhD	University of Oxford	Role of IRF5 in the function of $CD11c^{+}$ macrophages in atherosclerosis. ***2 years***	£259,681
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