



British Heart
Foundation

Making every moment count

Research Grant Awards 2019/2020

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Cover image

“A couple of years ago I found myself forgetting things – doctors’ appointments, food in the oven, my keys. I had to go to my GP. After some tests, I went to the memory service and they told me I have dementia. I think you get good days and bad days. You have to look after yourself and find a purpose. Now I run the City Mission Dementia Project, I don’t worry about the future. I haven’t got the time. I’m thinking about the people I can help.”

Dianne Campbell, runs the City Mission Dementia Project

Over 780 hours spent helping others living with dementia.

Introduction

In the year April 2019 to March 2020 the British Heart Foundation (BHF) awarded grants totalling £99.7 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 2019/2020 the Chairs and Programme Grants Committee awarded £42.2 million to Personal Chairs, Programme Grants, Infrastructure Grants and other major projects. This included £10 million towards the establishment of a BHF Data Science Centre, £0.3 million towards six awards jointly funded with The Alan Turing Institute, and £1.1 million towards two awards jointly funded with the German Centre for Cardiovascular Research and the Dutch Heart Foundation. We also awarded £0.2 million seed funding to the four shortlisted applicants for the Big Beat Challenge.

There were 28 chairholders (also referred to as BHF Professors) in post on 31 March 2020. 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.

Notes

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

The Clinical Studies Committee supports clinical trials of treatments, diagnostics and other interventions and certain observational studies of specific patient groups. The Committee awarded £3.8 million to three applications.

The Translational Awards Committee awarded £1.4 million to two 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 £29.5 million to 85 applications, and the Project Grants Committee awarded £22.6 million to 89 applications.

The pages that follow list BHF chairholders in post during the year and new awards made for Programme Grants, Clinical Studies, Translational Awards, Fellowships, Project Grants and others.

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

BHF Chairholders listed by institute

Imperial College London

The Chair of Cardiovascular Science

Held by: Professor C Emanuelli BSc PhD

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

Imperial College London

The Simon Marks Chair of Regenerative Cardiology until 30 September 2019

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 Cardiovascular Proteomics

Held by: Professor M Mayr MD PhD

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

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 until 31 December 2019

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.

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 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

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

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 FMedSci

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 ScD 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 (Hons) PhD FAHA FESC FMedSci FRSE

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

University of Edinburgh

The Duke of Edinburgh 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 (Hons) MBChB 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.

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 the control of heart rhythm.

University of Manchester

The Chair of Cardiology

Held by: Professor B D Keavney BSc BM BCh MRCP (UK) 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 until 30 September 2019

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.

Awards made during the year 1 April 2019–31 March 2020

Fellowships

Listed alphabetically by institute

Non-clinical fellowships

Senior Basic Science Research Fellowships				
Reference number	Name	Institution	Grant title	Total
FS/19/30/34173	Dr A Brill MD PhD	University of Birmingham	Mechanisms of mast cell-mediated inflammation exacerbating deep vein thrombosis. <i>5 years</i>	£627,801
FS/19/32/34376	Dr N Smart BSc PhD	University of Oxford	The BHF Ian Fleming Research Fellowship. Targeting developmental mechanisms to augment neovascularisation of the ischaemic heart (renewal). <i>5 years</i>	£828,402
Intermediate Basic Science Research Fellowships				
Reference number	Name	Institution	Grant title	Total
FS/19/33/34328	Dr J Barallobre Barreiro BSc MSc PhD	King's College London	Extracellular matrix remodelling in heart failure: the contribution of ADAMTS proteases. <i>5 years</i>	£717,731
FS/20/25/34983	Dr J Gregson BSc MSc MPhil PhD	London School of Hygiene and Tropical Medicine	A programme of research into statistical methods for cardiovascular trials. <i>5 years</i>	£387,238
FS/20/23/34784	Dr M Nus Chimeno BSc PhD	University of Cambridge	Metabolic pathways to T follicular helper cells development in atherosclerosis. <i>5 years</i>	£773,743
FS/19/34/34354	Dr A Tavares BSc PhD	University of Edinburgh	Myocardial fibrosis and left ventricular remodelling in cardiovascular disease. <i>3 years</i>	£497,370
FS/20/21/34704	Dr C Scarff BSc PhD	University of Leeds	Structural basis of hypertrophic cardiomyopathy caused by mutations in cardiac myosin and myosin-binding protein-C. <i>5 years</i>	£615,993
FS/19/31/34158	Dr J Vieira BSc MSc PhD	University of Oxford	Investigating the functional role of the noncoding genome during epithelial-to-mesenchymal transition to enable cardiovascular regeneration. <i>5 years</i>	£817,466
Immediate Postdoctoral Basic Science Research Fellowships				
Reference number	Name	Institution	Grant title	Total
FS/20/20/34626	Dr P Charlton MEng PhD	University of Cambridge	Using clinical and consumer devices to enhance screening for atrial fibrillation. <i>5 years</i>	£251,475

4-year PhD Studentships				
Reference number	Name	Institution	Grant title	Total
FS/19/57/34894	Prof S Harding BSc PhD	Imperial College London	Imperial 3rd intake 2019 – 4-year PhD Studentship (4th) Scheme: Ms Natasha de Winter; Ms Laura Nicastro; Ms Amalia Sintou; Ms Eleni Vasilaki. <i>4 years</i>	£683,988
FS/19/58/34895	Prof M Mayr MD PhD	King's College London	King's College London 3rd intake 2019 – 4-year PhD Studentship (4th) Scheme: Mr Marco Antonazzi; Ms Isabella Cuthbert; Mr Josef Huntington; Ms Bhawana Singh. <i>4 years</i>	£670,196
FS/19/62/34901	Prof A Ahluwalia BSc PhD	Queen Mary University of London	Queen Mary 3rd intake 2019 – 4-year PhD Studentship (4th) Scheme: Ms Laura Deelen; Mr Joshua Dyson; Ms Trupti Kolvekar; Mr Balraj Singh Sandhar. <i>4 years</i>	£653,416
FS/19/63/34902	Prof A Hughes BSc MBBS PhD	University College London	UCL 3rd intake 2019 – 4-year PhD Studentship (4th) Scheme: Mr Liam Burke; Ms Alexandra Clare Jamieson; Ms Teodora Popa; Mr Dominic Scaglioni. <i>4 years</i>	£669,164
FS/19/53/34887	Prof A Poole MA PhD VetMB FBPhS MRCVS	University of Bristol	Bristol 3rd intake 2019 – 4-year PhD Studentship (4th) Scheme: Mr Stanley Buffouge; Ms Katrine Hegeland; Ms Ffion Jones; Mr Jordan Vautrinot. <i>4 years</i>	£612,848
FS/19/54/34889	Prof M Bennett BSc MBChB PhD MA FRCP FAHA FMedSci	University of Cambridge	Cambridge 3rd intake 2019 – 4-year PhD Studentship (4th) Scheme: Mr Benjamin Constant; Ms Alice Knapton; Ms Samantha Mason; Mr James Taylor. <i>4 years</i>	£680,368
FS/19/55/34890	Prof N Morton BSc PhD	University of Edinburgh	Edinburgh 3rd intake 2019 – 4-year PhD Studentship (4th) Scheme: Ms Rachel Bell; Ms Lisa Ivatt; Ms Clare Macleod; Ms Sophie Louise Walker. <i>4 years</i>	£613,312
FS/19/56/34893	Prof R Touyz BSc MBBS PhD FMedSci	University of Glasgow	Glasgow 3rd intake 2019 – 4-year PhD Studentship (4th) Scheme: Ms Gabriella Gerganova; Ms Rebecca Gilchrist; Mr Mohsen Shoaran; Ms Cara Trivett. <i>4 years</i>	£609,592
FS/19/59/34896	Prof P Stewart MD FRCP FMedSci	University of Leeds	Leeds 3rd intake 2019 – 4-year PhD Studentship (4th) Scheme: Ms Abigail Byford; Mr Jacob Kinsella; Ms Cheuk Yau (Jane) Luk; Mr Samuel Turvey. <i>4 years</i>	£616,292
FS/19/60/34899	Prof E Cartwright BSc MSc PhD	University of Manchester	Manchester 3rd intake 2019 – 4-year PhD Studentship (4th) Scheme: Ms Kerri Smith; Mr Connor Stonall; Ms Agnieszka Swiderska; Ms Alice Whitley. <i>4 years</i>	£613,308
FS/19/61/34900	Prof D Greaves BSc PhD	University of Oxford	Oxford 3rd intake 2019 – 4-year PhD Studentship (4th) Scheme: Ms Katherine Banecki; Ms Kaitlyn Dennis; Mr Conan O'Brien; Mr Yu Yeung Hanson Ng. <i>4 years</i>	£670,860

PhD Studentships				
Reference number	Name	Institution	Grant title	Total
FS/19/73/34690	Student to be appointed (Supervisor: Prof A Khir)	Brunel University London	The development of a sophisticated cardiac pacing simulator: a training tool to enhance the management of post cardiac surgical patient care. <i>3 years</i>	£111,705
FS/19/43/34559	Miss L Mereweather BSc MSc	Imperial College London	Venous thrombosis: initiating mechanisms and therapeutic strategies. <i>3 years</i>	£120,728
FS/20/9/34989	Ms G Mobayen BSc MSc	Imperial College London	How von Willebrand factor responds to shear stress – the role of the C-terminal domains. <i>3 years</i>	£120,728
FS/19/71/34688	Student to be appointed (Supervisor: Dr V George)	Keele University	Creating 3D models of ARVC (arrhythmogenic right ventricular cardiomyopathy) disease with light-induced tuneable severity in stem cell-derived cardiomyocytes. <i>3 years</i>	£107,036
FS/19/42/34537	Mr B Barrett BSc MSc	King's College London	Investigating the vascular response to a cold probe: a study of mechanisms in cardiovascular health and disease. <i>3 years</i>	£122,220
FS/19/27/34355	Ms S de Silva BSc MSc	King's College London	Investigating a novel role for the LINC complex in cardiomyocyte mechanotransduction. <i>3 years</i>	£118,154
FS/20/8/34984	Ms J Morris MSc BSc	King's College London	Sulforaphane improves maternal glucose handling in obese insulin-resistant pregnancy; consequences for uterine blood flow, placental function and offspring metabolism. <i>3 years</i>	£125,210
FS/19/25/34277	Mr N Siddall	King's College London	Neurovascular protection afforded by stabilised sulforaphane in a murine model of ischaemic stroke: a role for Nrf2-regulated redox signalling in the blood-brain barrier endothelium. <i>3 years</i>	£123,783
FS/20/10/34993	Student to be appointed (Supervisor: Dr S Jones)	Manchester Metropolitan University	SIRT1: a novel antithrombotic target in cardiovascular disease? <i>3 years</i>	£108,152
FS/19/28/34358	Mr O Cappa BSc MSc	Queen's University Belfast	Cellular drivers of fibrosis in atrial fibrillation. <i>3 years</i>	£107,927
FS/19/24/34262	Miss S Cooper BSc	St George's University of London	Raf kinases and cardiac ECs: characterising Raf inhibition in chronic hypertension. <i>3 years</i>	£115,400
FS/19/29/34367	Ms E Ioannou BSc MSc	University College London	Molecular regulation of great vessel formation and remodelling. <i>3 years</i>	£118,830
FS/20/4/34958	Mr Z Ren BSc	University College London	Novel targets in the final common pathway of necrosis during ischaemia reperfusion injury: identification of mitochondrial permeability transition pore components by proximity-dependent biotinylation. <i>3 years</i>	£102,428

PhD Studentships (continued)				
FS/20/2/34799	Ms J Begum BSc MSc	University of Birmingham	Developing iPSC based models of foam cell formation to study new pathways of lipid clearance that regulate inflammation. <i>3 years</i>	£107,926
FS/19/68/34583	Mr J Price BSc	University of Birmingham	Measurement of extracellular vesicles in cardiovascular disease by a novel interferometric imaging method. <i>3 years</i>	£107,927
FS/19/76/34927	Student to be appointed (Supervisor: Dr K Gehmlich)	University of Birmingham	Joint NC3Rs/BHF PhD Studentship: Use of induced pluripotent stem cell derived cardiomyocytes to test the consequences of genetic variants in atrial and ventricular arrhythmias. <i>3 years</i>	£90,000
FS/20/5/34973	Mr M Bradshaw BSc MSc	University of Bristol	High resolution structural studies of cardiac thin filaments; heart disease at the molecular level. <i>3 years</i>	£111,301
FS/19/37/34438	Mr J Hawkins BSc	University of Bristol	The role of nuclear actin dynamics in the regulation of vascular smooth muscle cell inflammation. <i>3 years</i>	£111,962
FS/19/72/34698	Mr Z Li BSc MRes	University of Bristol	Regulation of hypertension-induced coronary artery fibrosis by Wnt/b-catenin signalling pathway. <i>3 years</i>	£118,313
FS/19/77/34929	Student to be appointed (Supervisor: Dr G Wheeler)	University of East Anglia	Joint NC3Rs/BHF PhD Studentship: Development of non-mammalian, pre-clinical screening tools for the predictive analysis of cardiotoxicity. <i>3 years</i>	£90,000
FS/19/74/34725	Student to be appointed (Supervisor: Dr N Halbesma)	University of Edinburgh	Analysing the interplay between patient characteristics, the 'chain of survival' and mortality after out-of-hospital cardiac arrest using a linked national dataset. <i>3 years</i>	£80,625
FS/19/40/34477	Mr A Flynn BSc MRes	University of Glasgow	Defining the roles of dimethylarginine dimethylaminohydrolases (DDAH) in cerebrovascular regulation. <i>3 years</i>	£105,312
FS/19/38/34441	Mr C Coupland BSc	University of Hull	Is zinc critical for the control of platelet cyclic nucleotide signalling? <i>3 years</i>	£108,240
FS/19/41/34478	Mr C Trevelyan BSc	University of Leeds	Regulation of human cardiac fibroblast function by specific microRNAs. <i>3 years</i>	£108,668
FS/19/39/34447	Ms T Azam BSc MRes	University of Manchester	Investigating cardioprotective system against myocardial infarction: is mitogen activated protein kinase kinase 7 (MKK7) a new player? <i>3 years</i>	£106,361
FS/20/6/34990	Ms B Niort Bachelors Masters	University of Manchester	Identifying the mechanisms causing the reduced L-type calcium current in the post-infarcted left ventricle. <i>1 year, 9 months</i>	£88,278
FS/19/70/34650	Ms R Raja BSc MRes	University of Manchester	Investigating the role of ER-dependent protein homeostasis in the diabetic heart. <i>3 years</i>	£107,996
FS/19/36/34346	Mr M Larzjan BS MSc	University of Oxford	The effect of blood pressure lowering drugs and drug-drug interactions on the risk of type 2 diabetes: integrating epidemiologic and genetic data. <i>3 years</i>	£96,387

PhD Studentships (continued)				
FS/20/7/34992	Ms L Moreira BSc MSc	University of Oxford	Exploring effects of calcitonin and procalcitonin on cardiomyocyte function, calcium handling and arrhythmogeneity. <i>3 years</i>	£119,394
FS/19/78/34716	Student to be appointed (Supervisor: Prof P Aveyard)	University of Oxford	Developing the evidence for active intervention to support smoking cessation in cardiovascular disease. <i>3 years</i>	£117,347
FS/19/26/34326	Ms E Armitage BSc	University of Sheffield	Investigating the role of Dock6 and Eoqt in cardiac development and congenital heart disease. <i>3 years</i>	£106,033
FS/20/17/34730	Student to be appointed (Supervisor: Prof P Evans)	University of Sheffield	c-REL transcriptional programmes driving atherosclerosis. <i>3 years</i>	£107,925
FS/20/3/34956	Mr S Hierons BSc MRes	University of St Andrews	Plasma non-esterified fatty acids and fibrin clot formation in obesity – a relationship forged in zinc? <i>3 years</i>	£108,535
FS/19/69/34639	Mr J Marsh BSc MSc	University of St Andrews	Role of plasma fatty acid and zinc dynamics in platelet functioning: implications for pathological clotting. <i>3 years</i>	£108,134
Travel Fellowships				
Reference number	Name	Institution	Grant title	Total
FS/19/75/34693	Dr S Jones BSc MSc PhD	University College London	Macro- and micro-vascular haemodynamic responses to exercise training and their alignment with molecular transducers in the Molecular Transducers of Physical Activity Consortium (MoTrPAC) study. <i>4 months</i>	£9,435
Career Development Research Fellowship for Nurses and Allied Health Professionals				
Reference number	Name	Institution	Grant title	Total
FS/19/52/34563	Dr R Issitt BSc (Hons) PgDip DClinP FCCP AAP	University College London	Antibody immunoadsorption for transplantation. <i>3 years</i>	£366,231
FS/20/24/34944	Dr B Farquharson PhD MSc PgCert BSc	University of Stirling	Improving outcomes of out-of-hospital cardiac arrest (OHCA): applying behavioural science to enhance dispatcher assistance and increase rates of cardiopulmonary resuscitation. <i>3 years</i>	£289,830

Clinical Fellowships				
Intermediate Clinical Research Fellowships				
Reference number	Name	Institution	Grant title	Total
FS/20/26/34952	Dr S Williams BSc MBChB PgCert PhD MRCP MIET	King's College London	Informing atrial fibrillation rhythm control strategies using electrophysiological testing, cardiac imaging and computational modelling. <i>5 years</i>	£994,674
FS/19/35/34374	Dr T Treibel MA MBBS MRCP PhD	University College London	Mechanisms of excess risk in Aortic STEnosis after valve Replacement (MASTER). <i>5 years</i>	£905,514
Clinical Research Training Fellowships				
Reference number	Name	Institution	Grant title	Total
FS/20/14/34917	Dr C Coyle BMBCh BA MRCP	Imperial College London	Determining the characteristics of drivers of persistent atrial fibrillation using distribution patterns of uniform wavefronts. <i>3 years</i>	£215,121
FS/20/18/34972	Dr A Kaura MSc BSc MBChB MRCP	Imperial College London	Using unstructured echocardiography and electrocardiography data from multicentre electronic health record systems for big data analytics. <i>2 years</i>	£150,707
FS/20/11/34750	Dr A Miyazawa MBChB MRCP	Imperial College London	Improving implantable cardioverter-defibrillator arrhythmia detection: development of a novel arrhythmia detection algorithm. <i>3 years</i>	£249,284
FS/19/22/34334	Dr R Rajakulasingam BSc MBBS MRCP	Imperial College London	Investigation of post-myocardial infarction left ventricular remodelling by diffusion tensor cardiac magnetic resonance. <i>3 years</i>	£246,452
FS/20/27/34981	Dr S Salim BSc MBBS	Imperial College London	Epidemiology of Chronic Venous Disease in England. <i>2 years, 4 months</i>	£124,464
FS/20/13/34857	Dr A Hua MRCP MBBS BSc	King's College London	Multi-parametric tissue characterisation of myocardial inflammation in autoimmune rheumatic diseases using cardiovascular magnetic resonance imaging. <i>3 years</i>	£255,962
FS/19/67/34697	Dr C Peet MA BMBCh	King's College London	The autoinflammatory basis of idiopathic recurrent pericarditis. <i>3 years</i>	£216,454
FS/19/21/34331	Student to be Appointed (Supervisor: Dr F Capon)	King's College London	The autoinflammatory basis of idiopathic recurrent pericarditis. <i>3 years</i>	£194,351
FS/19/50/34566	Dr G Argentesi BMedSci MBBS MRCP MSc	Queen Mary University of London	Somatic GNA11 mutations: clues to cause and consequence of primary aldosteronism? <i>3 years</i>	£284,193
FS/19/47/34510	Dr A Christensen BMBCh MCROG	Queen Mary University of London	Linking the maternal immune system to cardiac function during preeclampsia. <i>3 years</i>	£252,000

Clinical Research Training Fellowships (continued)				
FS/20/22/34640	Dr S Naredi BMedSci MBBS MRCP	Queen Mary University of London	Predicting hypertension mediated subclinical left ventricular hypertrophy using machine learning techniques. <i>3 years</i>	£251,134
FS/20/16/34945	Dr A Salam BSc MBBS MRCP	Queen Mary University of London	Therapeutic utility of targeting C-type natriuretic peptide to maintain endothelial integrity and offset pulmonary oedema and acute lung injury. <i>3 years</i>	£263,904
FS/19/48/34523	Dr K Patel MBBS BSc MRCP	University College London	CAAST study: Cardiac Amyloid and Aortic Stenosis in the TAVI era. <i>2 years</i>	£161,931
FS/19/44/34424	Dr O Hanington MSc MBBS MRCP PgCert	University of Bristol	Characterising and mapping hERG channel interactors: new insights into the molecular mechanisms underlying arrhythmia. <i>3 years</i>	£207,612
FS/20/19/34976	Dr P Carter BMedSc MBChB	University of Cambridge	Does clonal haematopoiesis drive atherosclerosis via IL-1 β , or does atherosclerosis create a permissive environment to drive clonal haematopoiesis? <i>3 years</i>	£257,091
FS/19/66/34658	Dr S Gu BEng MBChB MRCP PgDip	University of Cambridge	Biomechanical assessment of plaque vulnerability. <i>3 years</i>	£218,840
FS/19/46/34445	Dr M Meah MBBS MRCP	University of Edinburgh	Effect of computed tomography coronary angiography on lifestyle and risk factor modification. <i>3 years</i>	£273,091
FS/20/12/34789	Dr R Nadarajah BA MBChir MA MRCP	University of Leeds	Predicting patient-level new onset atrial fibrillation from population-based nationwide electronic health records: a precision medicine investigation using artificial intelligence. <i>3 years</i>	£188,229
FS/19/45/34443	Dr D Sagar BMedSci BMBS PgCert	University of Leeds	Diabetes-driven immunometabolic reprogramming of blood platelets. <i>3 years</i>	£241,395
FS/19/23/34370	Dr C Thaitirarot BSc MBChB MRCP	University of Leicester	Combined targeted and agnostic search for prognostic biomarkers in heart failure with preserved ejection fraction. <i>3 years</i>	£225,387
FS/19/65/34692	Dr M Burrage BSc MBBS FRACP	University of Oxford	Early detection of cardiotoxicity using cardiovascular magnetic resonance and spectroscopy in patients with breast or other thoracic cancer receiving radiotherapy and chemotherapy. <i>2 years</i>	£108,599
FS/20/15/34920	Dr C Camm MA BMBS PGDip MRCP	University of Oxford	Elucidating the causal pathways between adiposity and atrial fibrillation. <i>2 years</i>	£144,603
FS/19/64/34673	Dr A Pinho-Gomes MD MSc MRCS	University of Oxford	Blood pressure management in atrial fibrillation, heart failure and multimorbidity. <i>2 years</i>	£132,592
FS/19/49/34541	Dr T Nelson BSc MBChB MRCP	University of Sheffield	Relationships between fibrin clot properties, clinical characteristics, other biomarkers and clinical outcomes in patients with atrial fibrillation. <i>3 years</i>	£278,999

Research Training Fellowship For Nurses and Allied Health Professionals				
Reference number	Name	Institution	Grant title	Total
FS/19/51/34562	Mrs H Waterhouse BSc MSc	University of Leicester	Cardiac rehabilitation programme in patients following hospitalisation for decompensated chronic heart failure: the development of an intervention to improve patient acceptance of referral. <i>2 years, 6 months</i>	£172,388
FS/20/1/34946	Mrs H Eftekhari BSc MSc MRes	University of Warwick	Self-management support in people with postural orthostatic tachycardia syndrome (POTS): co-producing a supportive self-management intervention and testing for feasibility. <i>4 years</i>	£217,854

Infrastructure Grants

Reference number	Name	Institution	Grant title	Total
IG/20/1/34747	Prof V O'Donnell BSc PhD	Cardiff University	Funds to purchase a Sciex 6600 Time-of-Flight Mass Spectrometer to be based at the Cardiff Lipidomics Facility at Cardiff University. <i>1 year</i>	£285,024
IG/20/2/35021	Prof P Madeddu MD CS FAHA	University of Bristol	Funds towards the purchase of a rodent dedicated Vevo 3100 Imaging System. <i>1 year</i>	£126,526

Special Project Grants

Listed alphabetically by institute

Reference number	Name	Institution	Grant title	Total
SP/19/5/34806	Dr F Drenos BSc PhD	Brunel University London	The BHF-Turing Cardiovascular Data Science Awards (Second call): Integration of time and genetic instrument dependent causal methods for the construction of a metabolomics network for the assessment of drug compounds (joint funding with The Alan Turing Institute). <i>1 year</i>	£31,090
SP/20/1/35122	Prof S Harding BSc PhD	Imperial College London	BHF Centres for Regenerative Medicine cross-centre activity.	£31,174
SP/19/4/34677	Prof M Mayr MD PhD	King's College London	Vascular Ageing, Rejuvenation and Healthspan Extension (joint funding with BIRAX). <i>3 years</i>	£179,975
SP/20/4/35124	Prof E Behr MA MBBS MD FRCP FESC	St George's University of London	The Genomic basis of Unexplained Cardiac Arrest: the GenUCA Investigators (joint funding with DZHK and DHF). <i>4 years</i>	£731,434
SP/20/2/34841	Dr G Captur MD MRCP MSc PhD	University College London	MyoFit46: multi-morbidity life-course approach to myocardial health – a cardiac sub-study of the MRC National Survey of Health and Development (NSHD). <i>5 years</i>	£550,789

Special Project Grants (continued)				
SP/19/7/34810	Prof U Benedetto MD PhD	University of Bristol	The BHF-Turing Cardiovascular Data Science Awards (Second call): Machine learning for risk prediction in adult cardiac surgery in the United Kingdom (joint funding with The Alan Turing Institute). <i>2 years</i>	£62,473
SP/20/3/35123	Dr M Dweck BSc MB ChB MRCP FACC	University of Edinburgh	Quantitative-imaging in cardiac transthyretin amyloidosis (I-CARE) (joint funding with DZHK and DHF). <i>4 years</i>	£386,675
SP/19/9/34812	Prof J Wardlaw CBE BSc (Hons) MBChB (Hons) FRCR FRCP MD FMedSci FESO FRSE	University of Edinburgh	The BHF-Turing Cardiovascular Data Science Awards (Second call): Uncovering retinal microvascular predictors of compromised brain haemodynamics in small vessel disease (joint funding with The Alan Turing Institute). <i>2 years</i>	£66,000
SP/19/6/34809	Dr J Dennis BSc MSc PhD	University of Exeter	The BHF-Turing Cardiovascular Data Science Awards (Second call): Precision medicine in type 2 diabetes: developing and testing a decision support tool for primary care to optimise the selection of glucose-lowering therapy (joint funding with The Alan Turing Institute). <i>1 year, 6 months</i>	£65,473
SP/19/8/34811	Dr M Hall BSc MSc PhD	University of Leeds	The BHF-Turing Cardiovascular Data Science Awards (Second call): Post myocardial infarction disease trajectories: process mining of 145 million hospitalised events (joint funding with The Alan Turing Institute). <i>1 year, 6 months</i>	£57,582
SP/19/10/34813	Prof M Tomaszewski MD FAHA FRCP	University of Manchester	The BHF-Turing Cardiovascular Data Science Awards (Second call): Molecular causal networks of hypertension – a machine learning approach (joint funding with The Alan Turing Institute). <i>1 year, 6 months</i>	£24,434
SP/19/3/34678	Health Data Research UK		BHF Data Science Centre. <i>5 years</i>	£10,000,000

Clinical Study Grants

Reference number	Name	Institution	Grant title	Total
CS/20/3/34738	Mr N Drury BM (Hons) PhD FRCS (CTh)	University of Birmingham	del Nido versus St Thomas' blood cardioplegia: a multi-centre randomised controlled trial in children undergoing cardiac surgery. <i>3 years</i>	£566,211
CS/20/2/34731	Prof P Mark MB ChB (Hons) PhD FRCP	University of Glasgow	Aldosterone bloCkade for Health Improvement Evaluation in End-stage renal disease. Proposal for a randomised double-blind placebo-controlled trial in the United Kingdom (ACHIEVE-UK). <i>4 years, 8 months</i>	£650,557
CS/20/1/34732	Prof R Kharbanda BSc MBChB PhD FRCP	University of Oxford	British Heart Foundation Randomised Clinical Trial of Cerebral Embolic Protection in Transcatheter Aortic Valve Implantation (BHF PROTECT-TAVI). <i>6 years</i>	£2,251,003

Programme Grants

Listed alphabetically by institute				
Reference number	Name	Institution	Grant title	Total
RG/20/9/35101	Prof C Emanueli BSc (Hons) PhD	Imperial College London	Exosomes in ischaemic heart disease accompanied with diabetes mellitus: from pathogenic mediators to novel therapeutic agents (renewal). <i>5 years</i>	£1,000,000
RG/19/6/34387	Dr D O'Regan FRCP FRCR PhD	Imperial College London	Machine learning to model disease mechanisms and predict outcomes in cardiomyopathy. <i>5 years</i>	£1,011,285
RG/20/1/34802	Prof R Botnar PhD	King's College London	Detection of high-risk plaque with tropoelastin-specific and multicontrast coronary MRI (renewal). <i>5 years</i>	£1,258,715
RG/19/11/34633	Prof M Giacca MD PhD	King's College London	Functional selection of novel biotherapeutics for myocardial infarction and heart failure using arrayed AAV libraries coding for the secretome. <i>5 years</i>	£1,420,289
RG/20/4/34803	Prof S Niederer DPhil	King's College London	Selecting rhythm or rate control in patients with both atrial fibrillation and heart failure. <i>5 years</i>	£691,686
RG/20/3/34823	Prof A Shah MD FRCP FESC FMedSci	King's College London	Redox-regulated adaptive pathways in heart failure (renewal). <i>5 years</i>	£1,446,778
RG/20/8/34995	Prof F Marelli-Berg MD PhD	Queen Mary University of London	Investigating the topography of adaptive immunity in the cardiovascular system: basic mechanisms and therapeutic potential (renewal). <i>5 years</i>	£1,332,534
RG/19/7/34577	Prof K Suzuki MD PhD	Queen Mary University of London	Advancing mesenchymal stromal cell-dressing therapy for myocardial repair: application expansion, technical innovation and mechanistic investigations (renewal). <i>5 years</i>	£1,263,590
RG/19/8/34500	Prof T Warner BSc PhD	Queen Mary University of London	The association between platelet age and platelet function: relevance to thrombotic risk. <i>5 years</i>	£845,282
RG/19/5/34463	Prof A Gourine PhD	University College London	Cardiac vagus and exercise in health and disease (renewal). <i>5 years</i>	£1,022,603
RG/19/4/34452	Prof S Wannamethee PhD FFPH	University College London	The British Regional Heart Study: a resource for studying the causes, pathways and prevention of cardiovascular disease and disability among older British men. <i>5 years</i>	£893,651
RG/20/2/34763	Prof M Bennett BSc MBChB PhD MA FRCP FAHA FMedSci	University of Cambridge	Causes, consequences and therapeutic potential of cell senescence in atherosclerosis (renewal). <i>5 years</i>	£1,397,236
RG/20/5/34796	Prof A Baker BSc (Hons) PhD FAHA FESC FMedSci FRSE	University of Edinburgh	Exploitation of the response to injury in saphenous vein bypass grafts (renewal). <i>5 years</i>	£849,570

Programme Grants (continued)				
RG/20/10/34966	Prof N Mills MBChB BSc PhD FESC FRCP	University of Edinburgh	High-sensitivity cardiac troponin beyond the acute coronary syndrome. <i>5 years</i>	£1,270,434
RG/20/6/35095	Prof C Loughrey BVMS PhD FHEA MRCVS	University of Glasgow	Targeting RUNX to attenuate adverse cardiac remodelling and progression to heart failure. <i>5 years</i>	£1,206,845
RG/19/9/34655	Prof S Ye MD PhD FRCPath	University of Leicester	A comprehensive study to uncover and understand genetic influences on vascular smooth muscle cell behaviour in relation to cardiovascular diseases (renewal). <i>3 years</i>	£574,204
RG/20/7/34866	Prof J Gibbins BSc PhD	University of Reading	Understanding differences in platelet function and regulation in health and cardiometabolic disease: towards personalised and more effective anti-platelet treatment (renewal). <i>5 years</i>	£1,399,398
RG/19/10/34506	Prof P Evans BSc MSc PhD	University of Sheffield	Role of the transcription factor twist1 in endothelial pathophysiology and atherosclerosis progression (renewal). <i>5 years</i>	£799,778

New Horizons Grants

Reference number	Name	Institution	Grant title	Total
NH/20/1/34705	Prof V Diaz MEng PhD	University College London	VIRTUOSO: a virtual platform to enable precision vascular surgery – application on chronic type-b aortic dissection. <i>3 years</i>	£299,122
NH/19/1/34595	Prof D Dawson DM FRCP DPhil FESC	University of Aberdeen	The next leap in cardiac magnetic resonance imaging: cycling the field. <i>3 years</i>	£277,722

Translational Awards

Reference number	Name	Institution	Grant title	Total
TG/19/2/34831	Prof C Antoniades MD PhD	University of Oxford	Using radiomics and artificial intelligence to predict cardio-embolic stroke. <i>2 years</i>	£583,145
TG/19/1/34451	Prof J Gunn MA MB BChir MD MRCP	University of Sheffield	How will virtual (computed) fractional flow reserve (vFFR) impact the management of coronary artery disease? (VIRTU-4). <i>2 years</i>	£295,258

Project Grants

Listed alphabetically by institute

Reference number	Name	Institution	Grant title	Total
PG/19/22/34203	Dr G McGregor BA (Hons) MPhil PhD	Coventry University	Supervised exercise training for people with postural tachycardia syndrome: a feasibility RCT. <i>3 years</i>	£190,405
PG/20/4/34680	Dr J Hanley PhD MPhil BSc	Edinburgh Napier University	Who benefits from cardiovascular risk reduction programmes? Building a Scottish observatory to measure the impact of blood pressure telemonitoring and future cardiovascular risk reduction interventions. <i>3 years</i>	£192,845
PG/20/13/34994	Dr J Ahnstrom BSc MSc PhD	Imperial College London	FV-short as a major regulator of TFPI during the initiation of coagulation. <i>3 years</i>	£232,650
PG/20/16/35047	Dr G Birdsey BSc PhD	Imperial College London	The transcription factor ERG controls lymphangiogenesis and lymphatic endothelial cell gene expression. <i>3 years</i>	£276,858
PG/19/78/34733	Prof D Francis MA MB BChir MD FRCP	Imperial College London	Tensor-mapping to resolve the Achilles heel of echocardiographic strain imaging. <i>3 years</i>	£241,367
PG/19/75/34686	Dr K Paschalaki MD PhD	Imperial College London	Understanding the molecular mechanisms of endothelial senescence in COPD and association with clinical readouts of vascular ageing. <i>3 years</i>	£297,760
PG/20/8/34856	Prof C Terracciano MD PhD	Imperial College London	Myocardial slices for the study of mechanosensitive molecular mechanisms of myocardial fibrosis in cardiac fibroblasts. <i>1 year, 6 months</i>	£119,113
PG/19/46/34307	Prof K Jordan PhD MSc BComm (Acc)	Keele University	Cardiovascular prognosis in patients with undiagnosed chest pain: an electronic health record cohort study. <i>2 years</i>	£201,686
PG/19/72/34642	Dr K Authi BSc MSc PhD	King's College London	Characterisation of RASA3 interaction with integrin and cytoskeletal proteins in platelets. <i>3 years</i>	£235,981
PG/19/65/34574	Dr J Burgoyne PhD	King's College London	Studying transforming growth factor-beta-activated kinase (TAK1) thiol-dependent activation and its role in heart failure. <i>3 years</i>	£291,948
PG/19/23/34259	Prof P Chowienczyk BSc MBBS FRCP	King's College London	First-phase ejection fraction to guide elective aortic valve replacement in asymptomatic aortic stenosis. <i>3 years</i>	£225,515
PG/19/42/34429	Dr A Ivetic BSc (Hons) ARCS PhD	King's College London	Assessing the impact of blocking ectodomain shedding of L-selectin in myocardial infarction. <i>3 years</i>	£246,578
PG/19/52/34497	Dr T Kampourakis PhD Diploma in Biochemistry and Molecular Biology (equivalent to MSc)	King's College London	Targeting the myofilaments to correct heart muscle dysfunction. <i>3 years</i>	£212,446

Project Grants (continued)				
PG/19/34/34388	Prof C Shanahan BSc PhD	King's College London	Investigating the role of bromodomain protein BRD9 in vascular calcification. <i>3 years</i>	£292,415
PG/19/44/34368	Dr S Williams BSc MBChB PgCert PhD MRCP (UK) MIET	King's College London	Atrial cardiac magnetic resonance imaging in patients with embolic stroke of unknown source without documented atrial fibrillation. <i>2 years</i>	£182,072
PG/19/56/34550	Dr A Zampetaki PhD	King's College London	The role of LOC105 in endothelial cell dysfunction in diabetes mellitus. <i>3 years</i>	£248,338
PG/19/71/34632	Dr E Herrett BSc MSc PhD	London School of Hygiene and Tropical Medicine	Inequalities and missed opportunities in prevention of cardiovascular disease. <i>2 years</i>	£148,283
PG/20/15/35041	Dr S Bamforth BSc PhD	Newcastle University	Pharyngeal arch cell signalling in arch artery morphogenesis. <i>3 years</i>	£276,628
PG/19/33/34385	Prof P Eaton BSc PhD	Queen Mary University of London	p38-MAPK mediates cardiac fibrosis via DNA hypomethylation. <i>3 years</i>	£296,996
PG/20/6/34835	Dr T Iskratsch PhD Dipl Ing	Queen Mary University of London	The regulation of mechanosensing in healthy and atherosclerotic vascular smooth muscle cells. <i>3 years</i>	£238,020
PG/20/2/34618	Dr F Lewis-McDougall BSc PhD	Queen Mary University of London	Therapeutic potential of human induced pluripotent stem cell-derived cardiac progenitor cells: direct comparison with endogenous cardiac progenitor cells from the same patients. <i>3 years</i>	£260,799
PG/19/60/34585	Dr T Nightingale DPhil MBiochem	Queen Mary University of London	Controlling the haemostatic response: novel regulatory mechanisms for von Willebrand factor secretion from endothelial cells. <i>3 years</i>	£229,656
PG/20/18/35058	Prof A Tinker BA MB BS FRCP PhD FMedSci FHEA	Queen Mary University of London	Resistance to inhibitors of cholinesterase 8B and regulation of cardiovascular function. <i>2 years</i>	£159,710
PG/19/73/34663	Dr M Voisin PhD	Queen Mary University of London	Impact of a neutrophil subpopulation infiltrating the lymph nodes on T-cell effector functions during ischaemia-reperfusion injury: a new cellular target for immunotherapy? <i>3 years</i>	£255,831
PG/19/61/34586	Prof D Grieve BSc PhD	Queen's University Belfast	Defining key mechanisms underlying NOX4 signalling in endothelial colony-forming cells towards improved vasoreparative capacity in ischaemic disease. <i>3 years</i>	£282,730
PG/19/50/34436	Prof A Stitt BSc PhD	Queen's University Belfast	Modulating glycolysis in vascular progenitors to improve tissue regeneration in ischaemic disease. <i>3 years</i>	£265,727
PG/19/86/34788	Dr Q Su PhD	Queen's University Belfast	Defining microRNA-378A and ERRγ as key determinants underlying adverse cardiomyocyte and endothelial cell remodelling in insulin resistance. <i>3 years</i>	£276,430

Project Grants (continued)				
PG/19/58/34581	Prof E Behr MA MBBS MD FRCP FESC	St George's University of London	A genotype-phenotype association study of ajmaline provocation and its role in the diagnosis of Brugada syndrome. <i>2 years</i>	£294,754
PG/19/31/34343	Prof J Deanfield BA BChir MB FRCP FESC FACC	University College London	Progression of cardio-renal phenotypes in young people with type 1 diabetes: the AdDIT cohort. <i>3 years</i>	£292,323
PG/19/37/34399	Prof C Ruhrberg PhD	University College London	NRP1-mediated cell adhesion for tissue vascularisation. <i>3 years</i>	£235,416
PG/20/20/35060	Prof P Turowski PhD	University College London	Paracellular and transcellular leakage at the blood-brain barrier. <i>1 year, 6 months</i>	£108,549
PG/19/51/34493	Prof D Yellon PhD DSc	University College London	Gasdermin D: a novel target for dual protection against acute and chronic effects of cardiac ischaemia and reperfusion injury? <i>3 years</i>	£295,858
PG/20/17/35050	Dr N Mutch BSc (Hons) PhD	University of Aberdeen	Characterisation and function of novel profibrinolytic receptors on the platelet membrane. <i>3 years</i>	£299,938
PG/19/30/34327	Dr D Thompson BSc PhD	University of Aberdeen	The FPR2 ligand W-peptide: a new therapeutic approach to treat atherosclerosis. <i>3 years</i>	£252,229
PG/19/43/34432	Dr J Gonzalez Bsc (Hons) MRes PhD	University of Bath	Revealing the mechanisms by which milk sugars exaggerate postprandial lipaemia: implications for cardiovascular disease risk. <i>2 years, 6 months</i>	£167,770
PG/19/85/34776	Dr N Kalia BSc PhD	University of Birmingham	Do dual anti-platelet treatments (DAPTs) protect the coronary microcirculation of the injured and diabetic heart? <i>3 years</i>	£238,226
PG/20/22/35093	Prof P Kirchhof MD FESC FRCP (Edin)	University of Birmingham	Defining clusters of patients with atrial fibrillation at risk of heart failure and death. <i>1 year</i>	£73,801
PG/19/87/34792	Dr M Madhani BSc PhD	University of Birmingham	Nitrite-induced redox regulation of vascular function in hypertension. <i>3 years</i>	£254,917
PG/19/39/34415	Dr M Bond BSc PhD	University of Bristol	Breaking the cycle of cardiac fibrosis: harnessing the anti-fibrotic effects of cAMP. <i>3 years</i>	£233,547
PG/19/21/34190	Dr A Fraser BA MA MPH PhD	University of Bristol	Cardiometabolic health of women with and without adverse pregnancy outcomes: an electronic health records study. <i>3 years</i>	£249,879
PG/19/26/34302	Prof J Hancox BSc PhD DSc FRSB FBPhS	University of Bristol	Elucidating the effects of a short QT syndrome 'hotspot' mutation and hERG channel gating pathway modifier. <i>3 years</i>	£195,405
PG/19/77/34723	Dr S Harmer BSc PhD	University of Bristol	Rescuing defective trafficking of mutant channel complexes in the long QT syndrome. <i>3 years</i>	£202,013
PG/20/5/34801	DR H Kong BSc (Hons) PhD	University of Bristol	Interactions between microscopic Ca2+ signalling and electrical stability in the heart. <i>3 years</i>	£265,156

Project Grants (continued)

PG/19/49/34440	Prof P Madeddu MD CS FAHA	University of Bristol	A novel pericyte mechanism involving the transcriptional activator Nrf2 and the transcriptional repressor Bach1 modulates antioxidant defence response and angiopoietin-dependent vascular stabilisation during reparative angiogenesis. <i>3 years</i>	£212,341
PG/19/29/34319	Prof H Mellor BSc PhD	University of Bristol	Mechanisms of neovascularisation: the role of DAAM2 in blood vessel outgrowth. <i>3 years</i>	£201,066
PG/20/1/34617	Prof S Mundell BSc (Hons) PhD	University of Bristol	Regulation of TP thromboxane receptor expression and activity by selective P2Y12 receptor antagonists in human platelets: consequences for dual antiplatelet therapy? <i>3 years</i>	£226,673
PG/20/7/34849	Prof S Satchell BSc MBBS MRCP PhD	University of Bristol	Heparan sulphate: a key component of the coronary microvascular endothelial glycocalyx and a potential therapeutic target? <i>3 years</i>	£297,493
PG/20/12/34982	Dr M Harper MA PhD	University of Cambridge	Investigating the roles of neutrophil extracellular traps in arterial thrombosis. <i>3 years</i>	£202,947
PG/19/59/34582	Dr A Jackson MA PhD	University of Cambridge	A structural and/or signalling role for ventricular NaV1.5 in a murine model for Brugada syndrome. <i>3 years</i>	£299,463
PG/19/74/34670	Prof H Markus BM BCh BA FRCP DM	University of Cambridge	What causes lacunar stroke? A 7T magnetic resonance imaging study. <i>3 years</i>	£293,089
PG/20/11/34957	Prof S Ozanne BSc Hons PhD	University of Cambridge	Does metformin in obese pregnancy programme long-term cardiac and metabolic dysfunction in adult offspring? <i>3 years</i>	£289,403
PG/20/3/34651	Prof I Wilkinson MA DM FRCP FAHA	University of Cambridge	Investigating the relevance of skin sodium and salt sensitivity of blood pressure in determining the response to anti-hypertensive treatment. <i>2 years</i>	£167,235
PG/19/79/34742	Prof C Sutherland BSc PhD	University of Dundee	RABEP2 is a novel GSK3 substrate that represents a single therapeutic target to reduce both hyperglycaemia and microvascular disease in diabetes. <i>3 years</i>	£294,505
PG/19/35/34389	Dr S Fountain BSc PhD	University of East Anglia	Role of purinergic signalling in human adipocyte function. <i>3 years</i>	£260,109
PG/19/76/34696	Dr G Mok BSc MSc PhD	University of East Anglia	Characterising the embryonic origin of haemangioblasts, their trajectories and lineage decisions at single cell resolution. <i>3 years</i>	£239,073
PG/19/40/34422	Prof D Newby BA BSc PhD BM DM DSc FRSE FESC FACC FMedSci	University of Edinburgh	Bioprosthetic valve thrombosis. <i>2 years</i>	£256,948
PG/19/28/34310	Prof C Berry BSc MBChB PhD FRCP GlA FRCP Edin FACC FESC	University of Glasgow	The clinical utility of cardiac magnetic resonance imaging in patients with angina but no obstructive coronary disease (CorCMR): a diagnostic study and nested randomised trial. <i>3 years</i>	£296,404

Project Grants (continued)

PG/19/64/34434	Dr N Lang BSc (Hons) MB ChB PhD FRCP	University of Glasgow	Markers and mediators of angiogenesis inhibitor-induced vascular and myocardial toxicity: a prospective study in patients with cancer. <i>2 years, 6 months</i>	£256,744
PG/19/84/34771	Dr P Maffia BSc (Hons) MPhil PhD FHEA FRSB FBPhS FESC	University of Glasgow	Defining the individual and integrated roles of inflammatory chemokine receptors (iCCRs) in atherosclerosis. <i>3 years</i>	£298,529
PG/20/19/35061	Dr A Miller BSc (Hons) PhD	University of Glasgow	Determining the role of the ADMA-DDAH1 pathway in ischaemic stroke. <i>3 years</i>	£245,780
PG/19/55/34545	Prof G Smith BSc PhD	University of Glasgow	Adrenergic modulation of ventricular transmural conduction velocity is a novel factor governing electrical excitability in health and disease. <i>3 years</i>	£262,957
PG/19/54/34511	Prof C Gale BSc MBBS PhD MEd FESC MSc FRCP	University of Leeds	Health-related quality of life and clinical outcomes following acute myocardial infarction: national longitudinal cohort study. <i>3 years</i>	£234,361
PG/19/80/34753	Dr S Ponnambalam BSc PhD	University of Leeds	The CXCL2 chemokine promotes VEGF-A-regulated angiogenesis. <i>3 years</i>	£253,313
PG/19/68/34614	Prof D Steele BSc PhD	University of Leeds	Mechanisms of cardiomyocyte dysfunction induced by extracellular histones. <i>3 years</i>	£245,105
PG/19/81/34758	Dr N Turner BSc PhD	University of Leeds	Investigating the role and regulation of the Piezo1 mechanosensitive cation channel in cardiac fibroblasts. <i>3 years</i>	£271,148
PG/19/47/34335	Prof E White BSc PhD	University of Leeds	The role of Purkinje fibres in mechanically-induced arrhythmias. <i>3 years</i>	£255,054
PG/19/27/34305	Prof N Brindle BSc PhD	University of Leicester	Regulation of the switch to pathogenic angiopoietin signalling and its involvement in cardiovascular diseases. <i>2 years</i>	£147,301
PG/20/10/34886	Prof G Murphy BSc MBChB MD FRCS	University of Leicester	Preoperative weight management to improve outcomes of cardiac surgery in adults with obesity (SLIMCARD): a multicentre feasibility RCT. <i>2 years</i>	£262,723
PG/19/83/34765	Dr J Bowes BSc PhD	University of Manchester	Cardiovascular health in patients with inflammatory joint diseases: a genetic approach to understanding excess mortality. <i>2 years</i>	£184,701
PG/19/25/34301	Dr P Brownbill BSc (Hons) MPhil PhD	University of Manchester	Evaluation of the safety of maternal anti-hypertensive medicines on placental vascular function. <i>3 years</i>	£203,365
PG/19/63/34601	Dr K Dibb BSc PhD	University of Manchester	The role of alternans in generating atrial fibrillation in heart failure: a mechanistic study to understand the importance of remodelled Ca handling. <i>3 years</i>	£233,243
PG/20/14/35030	Dr K Hentges BA PhD	University of Manchester	Identification of genes associated with cardiac development using 'machine learning'. <i>3 years</i>	£246,410

Project Grants (continued)

PG/19/66/34600	Dr W Liu PhD MB	University of Manchester	Investigating p21 protein activated kinase-3 (Pak3) regulation of cardiac autophagy: a target for slowing down heart failure progression? <i>2 years</i>	£177,580
PG/19/82/34760	Dr L Venetucci MB ChB MRCP (UK) PhD	University of Manchester	Modulation of cardiac systolic and diastolic properties by oxidation dependent activation of protein kinase G: is phospholamban the only regulator? <i>3 years</i>	£287,668
PG/19/53/34499	Dr X Wang MB ChB PhD	University of Manchester	A new mechanism underlying hypertrophic progression to heart failure: the role of Ras-association domain family protein isoform 7 (RASSF7). <i>3 years</i>	£223,762
PG/19/69/34636	Prof P Bath BSc MB BS MD FRCPath FRCP FESO FAHA FBHS FBPhS FWSO DSc FMedSci	University of Nottingham	Assessment of modern machine learning methods and conventional statistical regression techniques in diagnosis and prediction of outcome after acute stroke using big data. <i>2 years, 6 months</i>	£145,079
PG/19/48/34433	Prof K Channon MD FRCP FMedSci	University of Oxford	Regulation of uteroplacental vascular remodelling by maternal endothelial cell tetrahydrobiopterin: role in pre-eclampsia and programmed cardiovascular risk in mothers and offspring. <i>3 years</i>	£289,945
PG/20/21/35082	Prof R Choudhury MA DM FRCP	University of Oxford	Development of a system for real time integration and display of quantitative multimodality data during cardiac catheterisation. <i>3 years</i>	£183,050
PG/19/36/34396	Prof K Dora BSc PhD MA	University of Oxford	TRPV4 channels in the feedback control of coronary artery myogenic tone. <i>3 years</i>	£180,455
PG/19/45/34419	Dr K Gehmlich PhD	University of Oxford	The role of ALPK3 in autosomal dominant hypertrophic cardiomyopathy. <i>2 years, 6 months</i>	£248,907
PG/19/41/34426	Prof C Monaco MD PhD	University of Oxford	The immune checkpoint CD200-CD200R as a therapeutic pathway in cardiovascular disease. <i>2 years, 6 months</i>	£267,509
PG/19/67/34607	Dr C Sigalas PhD BSc	University of Oxford	Catecholaminergic polymorphic ventricular tachycardia: investigating the relationships between RyR2 dysfunction in the brain and sudden cardiac death. <i>3 years</i>	£264,096
PG/19/38/34403	Prof R Sitsapesan BSc MSc PhD	University of Oxford	Statin-induced dysfunction of ryanodine receptor channels. <i>3 years</i>	£221,917
PG/19/70/34630	Dr E Tzima PhD	University of Oxford	Molecular determinants in endothelial Shc required for flow-mediated physiological and pathological responses. <i>3 years</i>	£263,388
PG/19/24/34266	Prof A Clerk BSc PhD	University of Reading	The role of p90 ribosomal S6 kinase 1 (RSK1) in heart failure. <i>1 year</i>	£98,052
PG/19/32/34383	Prof A Clerk BSc PhD	University of Reading	Effects of dabrafenib on cardiac hypertrophy and heart failure. <i>1 year, 6 months</i>	£121,400

Project Grants (continued)

PG/19/57/34568	Dr A McNeish BSc PhD	University of Reading	Characterisation of the mechanisms of omega-3 polyunsaturated fatty acids (n-3 PUFA) and novel structural analogues on the activation of KATP channels and subsequent regulation of blood pressure. <i>3 years</i>	£225,912
PG/19/62/34593	Dr S Vaiyapuri MSc PhD	University of Reading	Impact of pro-resolution mediators in the control of thromboinflammatory responses. <i>3 years</i>	£204,099
PG/20/9/34859	Prof J McCarron BSc PhD	University of Strathclyde	Mitochondrial amplification of local calcium entry and vascular contraction in hypertension. <i>3 years</i>	£263,268

Big Beat Challenge Seed Funding

Reference number	Name	Institution	Grant title	Total
BBC/19/1/35107	Prof Dr J Kluin	Amsterdam UMC	Hybrid Heart. <i>6 months</i>	£50,000
BBC/19/4/35108	Prof F Rademakers MD PhD	Catholic University of Leuven	Enhancing Cardiac care tHrOugh Extensive Sensing (ECHOES). <i>6 months</i>	£50,000
BBC/19/2/35105	Prof Z Mallat PhD MD	University of Cambridge	The immunobiology of human atherosclerosis: from single cell mapping to transformative immunotherapy. <i>6 months</i>	£50,000
BBC/19/3/35106	Prof H Watkins MD PhD FRCP FMedSci FRS	University of Oxford	Curing Genetic Heart Muscle Disease (CureHeart). <i>6 months</i>	£50,000

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