British Heart Foundation

Research Grant Awards 2021/2022

Contents

Introduction

In the year April 2021 to March 2022 the British Heart Foundation (BHF) awarded grants totalling £72.3 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 Personal Chairs, Translational Awards, and Intermediate and Senior Fellowships are interviewed.

In 2021-2022 the Chairs and Programme Grants Committee awarded £32.2 million to Personal Chairs, Programme Grants, an Infrastructure Grant and other major projects. This included £1.5 million to a third round of funding to three BHF Centres of Regenerative Medicine, £1.7 million towards renewal of the BHF Clinical Research Collaborative, and two new Personal Chairs to Professor C Antoniades at the University of Oxford and Professor N L Mills at the University of Edinburgh. It also included £1.7 million towards three jointly funded awards through the BHF-DZHK-DHF international alliance and £3.2 million towards renewed collaborative core funding for UK Biobank.

There were 27 Chairholders (also referred to as BHF Professors) in post on 31 March 2022. 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 supports clinical trials of treatments, diagnostics and other interventions and certain observational studies of specific patient groups. The Committee awarded £2.8 million to three applications.

The Translational Awards Committee awarded £1.3 million* to four 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 £23.5 million to 63 applications, and the Project Grants Committee awarded £12.5 million to 54 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 awards offered by the BHF, and of the application process, appear on the BHF website bhf.org.uk/research

Notes

The figures above include new awards and supplements made to existing grants.

£1,243,360.39 towards 44 Open Access Block Grants and £8,550 towards five Small Meeting grants have been included in the expenditure above but are not listed in the following pages.

Three awards totalling £808,840.35 included in the figures above were declined.

* 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 location

University of Birmingham

The Chair of Cardiovascular Sciences and Cellular Pharmacology

Held by: Professor S P Watson

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

Major interest: 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

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

University of Bristol

The Chair of Cardiovascular Science and Clinical Epidemiology

Held by: Professor D A Lawlor

Major interest: Population health – links between ethnicity, genetics and health during pregnancy on the long-term cardiovascular health of mothers and children.

University of Cambridge

The Chair of Cardiovascular Sciences

Held by: Professor M R Bennett

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

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

University of Cambridge

The Chair of Cardiovascular Medicine

Held by: Professor Z Mallat

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

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

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

University of Edinburgh

The BHF Chair of Cardiology

Held by: Professor N L Mills from 1 August 2021

Major interest: Using digital healthcare data to learn about heart disease and its consequences and cardiovascular diagnostics.

University of Edinburgh

The Duke of Edinburgh Chair of Cardiology

Held by: Professor D E Newby

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 to 30 August 2021

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

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

University of Leeds

The Chair of Cardiovascular Imaging

Held by: Professor S Plein

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

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

Imperial College London

The Chair of Cardiovascular Science

Held by: Professor C Emanueli

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

King's College London

The Chair of Molecular Cardiology

Held by: Professor M Gautel

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

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

King's College London

The Chair of Cardiology

Held by: Professor A M Shah

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.

Queen Mary University of London

The Chair of Cardiovascular Immunology

Held by: Professor F M Marelli-Berg

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

University of Manchester

The Chair of Cardiology

Held by: Professor B D Keavney

Major interest: Genetics of heart disease.

University of Oxford

The BHF Chair of Cardiovascular Medicine

Held by: Professor C Antoniades from 1 December 2021

Major interest: How fat in the body and surrounding arteries communicates with the heart and blood vessels, leading to heart attacks and strokes.

University of Oxford

The Chair of Cardiovascular Medicine

Held by: Professor S Bhattacharya

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

University of Oxford

The Chair of Cardiovascular Medicine

Held by: Professor B Casadei

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

Major interest: 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 R Collins

Major interest: 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

Major interest: 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

Major interest: 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 to 2 May 2021

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

Awards made during the year 1 April 2021–31 March 2022

Fellowships

Listed alphabetically by institute

Non-clinical fellowships

Senior Basic Science Research Fellowships

Reference number	Name	Institution	Grant title	Total
FS/SBSRF/22/31025	**Dr C Rhodes**	Imperial College London	Omics approaches to identify regulators of vascular remodelling in pulmonary hypertension. *60 months*	£977,511.42
FS/SBSRF/21/31020	**Dr D Stuckey**	University College London	Next generation multifunctional biomaterials for the infarcted heart. *60 months*	£1,126,956.33
FS/SBSRF/21/31013	**Prof L Hodson**	University of Oxford	Compartmentalisation of liver lipid flux determines atherogenic lipoprotein production and liver fat accumulation: the relevance of dietary macronutrient composition. *60 months*	£1,043,543.49

Intermediate Basic Science Research Fellowships

Reference number	Name	Institution	Grant title	Total
FS/IBSRF/21/25071	**Dr E Fowler**	Cardiff University	A new approach to control aberrant systolic calcium release and associated cardiac arrhythmias. *60 months*	£748,171.60
FS/IBSRF/22/25095	**Dr R de Groot**	University College London	Targeting ADAMTS7 in coronary artery disease. *60 months*	£771,089.30
FS/IBSRF/21/25085	**Dr K Ivanovitch**	University College London	Early specification and morphogenesis of chamber-specific cardiomyocytes. *60 months*	£761,767.68
FS/IBSRF/21/25060	**Dr S Mastitskaya**	University College London	Understanding the function of cardiac pericytes in health and disease. *60 months*	£642,487.05
FS/IBSRF/21/25088	**Dr F Simões**	University of Oxford	Niche-dependent programming of macrophage function in the regenerating heart. *60 months*	£799,629.36

Immediate Postdoctoral Basic Science Research Fellowships

Note: One award totalling £330,254.72 was declined.

4-year PhD Studentships

Reference number	Name	Institution	Grant title	Total
FS/4yPhD/F/21/34165	**Prof J Mitchell**	Imperial College London	ICL 1st intake 2021 – 4-year PhD Studentship (5th) Scheme: Mr Sonny Burniston; Ms Fama Manneh; Ms Maria Vinokurova. *48 months*	£469,818.00
FS/4yPhD/F/21/34154	**Prof M Mayr**	King's College London	KCL 1st intake – The Weston Class of 2021 – 4-year PhD Studentship (5th) Scheme: Ms Alice Arcidiacono; Ms Catherine James; Mr Hashum Sum. *48 months*	£464,763.00
FS/4yPhD/F/21/34161	**Prof A Ahluwalia**	Queen Mary University of London	QMUL 1st intake 2021 – 4-year PhD Studentship (5th) Scheme: Ms Nicola Dark; Ms Christina Gkantsinikoudi; Mr Thomas Wright. *48 months*	£444,465.00
FS/4yPhD/F/21/34157	**Prof V Muthurangu**	University College London	UCL 1st intake 2021 – 4-year PhD Studentship (5th) Scheme: Ms Isabelle Bond; Mr Guillermo Díez-Pinel; Mr Enhui Yong. *48 months*	£460,558.32
FS/4yPhD/F/21/34162	**Prof A Poole**	University of Bristol	Bristol 1st intake 2021 – 4-year PhD Studentship (5th) Scheme: Ms Natasha Bryan; Ms Alice Hathaway; Mr Connor Webb. *48 months*	£415,194.00
FS/4yPhD/F/21/34156	**Prof M R Bennett**	University of Cambridge	Cambridge 1st intake 2021 – 4-year PhD Studentship (5th) Scheme: Mr Matthew Batty; Ms Ruby Baxter; Ms Anna Pullinger. *48 months*	£469,140.00
FS/4yPhD/F/21/34166	**Prof N Morton**	University of Edinburgh	Edinburgh 1st intake 2021 – 4-year PhD Studentship (5th) Scheme: Mr Atta Arshad; Ms Heeyoun Hur; Ms Trecia Palmer. *48 months*	£417,220.68
FS/4yPhD/F/21/34158	**Prof E Davies**	University of Glasgow	Glasgow 1st intake 2021 – 4-year PhD Studentship (5th) Scheme: Mr Iain Black; Ms Caitlin Cosgrove; Ms Eleanor Dickson-Murray. *48 months*	£417,219.00
FS/4yPhD/F/21/34153	**Prof D Beech**	University of Leeds	Leeds 1st intake 2021 – 4-year PhD Studentship (5th) Scheme: Ms Marcella Conning-Rowland; Mr Michael Murray; Ms Jessica Wan. *48 months*	£415,833.00
FS/4yPhD/F/21/34152	**Prof S Ye** (to 10 January 2022) **Prof G A Ng** (from 11 January 2022)	University of Leicester	Leicester 1st intake – The Weston Class of 2021 – 4-year PhD Studentship (5th) Scheme: Ms Odeta Anciunaite; Ms Gurnoor Brar; Mr Aaron Wiseman. *48 months*	£414,813.00
FS/4yPhD/F/21/34163	**Prof E Cartwright**	University of Manchester	Manchester 1st intake 2021 – 4-year PhD Studentship (5th) Scheme: Ms Nina Conlan; Ms Farah Hussein; Ms Rachel Jones. *48 months*	£417,219.00
FS/4yPhD/F/21/34160	**Prof D Greaves**	University of Oxford	Oxford 1st intake 2021 – 4-year PhD Studentship (5th) Scheme: Mr Alexey Lipov; Mr Nikola Srnic; Ms Mary Strevens. *48 months*	£466,230.00

PhD Studentships

Reference number	Name	Institution	Grant title	Total
FS/PhD/21/29191	**Mr H Broadley**	Cardiff University	Trace amines for restoring blood pressure and organ perfusion in sepsis. *36 months*	£107,925.88
FS/PhD/22/29242	**Ms D Jones**	Imperial College London	Tissue-specific expression and function of coagulation factor VIII in endothelial cells. *36 months*	£123,469.60
FS/PhD/22/29215	**Student to be appointed (Supervisor: Dr M Gage)**	Royal Veterinary College, University of London	New roles of insulin: how does insulin modulate inflammation? *36 months*	£117,040.00
FS/PhD/21/29125	**Ms E Forrester**	St George's, University of London	Investigating the contribution of sodium/inositol transporter-Kv7 channel complexes in arterial function. *36 months*	£133,550.00
FS/PhD/22/29237	**Mr E Sulaiman**	University College London	A novel approach to attain highly purified exosomes for the investigation of cardioprotection. *36 months*	£115,096.18
FS/PhD/NC3Rs/22/29902	**Student to be appointed (Supervisor: Dr N Mutch)**	University of Aberdeen	Joint NC3Rs/BHF PhD Studentship: Modelling of thrombus dynamics in a microfluidic 'vasculature'. *36 months*	£90,000.00
FS/PhD/21/29142	**Ms D Lezama**	University of Birmingham	Targeting migration of $CD4^{+}CD28^{null}$ T lymphocytes in atherosclerosis. *36 months*	£109,400.00
FS/PhD/22/29208	**Student to be appointed (Supervisor: Dr A Aburima)**	University of Hull	PD-L1 promotes platelet activation and enhances thrombus formation. *36 months*	£110,207.45
FS/PhD/21/29176	**Mr R Murray**	University of Leeds	Investigating Rab46-dependent mechanisms underlying selective release of cargo from Weibel-Palade bodies. *36 months*	£116,838.00
FS/PhD/21/29165	**Ms L McGuinness**	University of Liverpool	I_{Ks} as a cardioprotective drug target. *36 months*	£108,849.14
FS/PhD/22/29229	**Ms W He**	University of Manchester	Investigating cardioprotective system by Pak2 regulation of ER stress response against myocardial infarction. *36 months*	£110,638.28
FS/PhD/NC3Rs/22/29901	**Student to be appointed (Supervisor: Prof A Trafford)**	University of Manchester	Joint NC3Rs/BHF PhD Studentship: Drosophila based screening to replace mammalian systems to identify the functional role of candidate genes in controlling muscle dyadic architecture. *36 months*	£90,000.00
FS/PhD/21/29209	**Ms E Parkes**	University of Reading	Lysosomal oxidation of low density lipoprotein increases the pH of lysosomes in macrophages. *36 months*	£110,003.00
FS/PhD/21/29211	**Ms E Card**	University of Sheffield	The BHF Masonic Charitable Foundation PhD Studentship: Modulation of macrophage phenotype and function in atherosclerosis by neutrophil microvesicles. *36 months*	£109,189.00
FS/PhD/21/29204	**Ms P Patel**	University of Sheffield	On-demand IL-1 – the role of TMED10 in vascular cells and atherosclerosis. *36 months*	£129,373.00

Advanced Training Award

Reference number	Name	Institution	Grant title	Total
FS/ATA/21/20015	**Dr T Tabish**	University of Oxford	Nitric oxide-releasing nanoporous graphene (NORG) for cardiovascular applications. *36 months*	£215,817.80

Clinical fellowships

Senior Clinical Research Fellowship

Reference number	Name	Institution	Grant title	Total
FS/SCRF/21/32010	**Prof M Dweck**	University of Edinburgh	Myocardial fibrosis activity in cardiovascular disease. *36 months*	£671,000.89

Intermediate Clinical Research Fellowship

Reference number	Name	Institution	Grant title	Total
FS/ICRF/22/26034	**Dr S Honarbakhsh**	Queen Mary University of London	Developing dynamic substrate targeted personalised treatment strategies in persistent atrial fibrillation. *60 months*	£517,130.99

Career Development Research Fellowship (for Nurses and Healthcare Professionals)

Reference number	Name	Institution	Grant title	Total
FS/CDRF/21/21032	**Dr K Bunting**	University of Birmingham	Improving the assessment of heart function in patients with atrial fibrillation (INDEX-AF). *48 months*	£242,781.33

Clinical Research Leave Fellowship

Reference number	Name	Institution	Grant title	Total
FS/CRLF/21/23011	**Dr A Roberts**	Imperial College London	Whole genome sequencing characterisation of paediatric cardiomyopathy: toward precision medicine. *36 months*	£376,570.75

Research Training Fellowship (for Nurses and Healthcare Professionals)

Reference number	Name	Institution	Grant title	Total
FS/RTF/22/30037	**Ms C Stowell**	Imperial College London	Interactive AI-mentored training system to deliver quality-assured echocardiographers. *60 months*	£260,955.76

Clinical Research Training Fellowships

Reference number	Name	Institution	Grant title	Total
FS/CRTF/22/24299	**Dr M Gimzewska**	Imperial College London	Metabonomic analysis of limb ischaemia. *20 months*	£142,578.35
FS/CRTF/21/24167	**Dr A Iacob**	Imperial College London	A systems biology approach to define the inflammatory signature underlying progression from myocarditis to heart failure. *24 months*	£228,790.24
FS/CRTF/21/24171	**Dr J Mohal**	Imperial College London	Mechanisms and innovations in right ventricular pacing for hypertrophic obstructive cardiomyopathy. *36 months*	£279,826.08
FS/CRTF/21/24183	**Dr A Sau**	Imperial College London	Identification of specific electrophenotypes in human persistent atrial fibrillation. *36 months*	£255,728.42
FS/CRTF/21/24175	**Dr A Cannata**	King's College London	The impact of COVID-19 on heart failure epidemiology and outcomes across primary and secondary care: a prospective population-based cohort study. *36 months*	£269,551.53
FS/CRTF/22/24312	**Dr O Chehab**	King's College London	CharacteriSing The physiological changes induced by mitRal rEgurgitation reduction and Subsequent ventricular and functional recovery in patientS undergoing transcatheter Mitral edge to edge Repair (STRESS MR). *36 months*	£310,034.11
FS/CRTF/21/24192	**Dr J Joslin**	King's College London	Assessment of endothelial glycocalyx dysfunction and impaired microcirculatory perfusion during cardiac surgery to improve prediction of post-operative acute kidney injury and understanding of pathophysiological mechanisms. *30 months*	£201,135.11
FS/CRTF/21/24166	**Dr I Kotadia**	King's College London	Fibre orientation and pathological change in conduction anisotropy in the left atrium. *24 months*	£190,641.69
FS/CRTF/22/24187	**Dr S McGrath**	King's College London	Cardiac myosin-binding protein C (cMyC) fragmentation patterns in different types of myocardial infarction. *36 months*	£292,961.61
FS/CRTF/21/24190	**Dr H Morgan**	King's College London	Deep phenotyping to predict outcome and treatment response in ischaemic cardiomyopathy. *30 months*	£228,633.66
FS/CRTF/21/24134	**Dr A Abiodun**	University College London	Understanding the cardiovascular impact of fluoropyrimidine chemotherapy: risk prediction and comprehensive vascular and myocardial phenotyping. *30 months*	£263,410.36
FS/CRTF/21/24269	**Dr G Joy**	University College London	Deep structural phenotype of hypertrophic cardiomyopathy: from mutation to hypertrophy. *24 months*	£209,391.99
FS/CRTF/21/24251	**Dr L Pearce**	University College London	The role of Rho kinases in post-myocardial infarct vascular reperfusion injury and no re-flow. *24 months.*	£188,013.58
FS/CRTF/21/24214	**Dr G Connolly**	University of Bristol	Are mutations in KCNE1 a cause of or a risk factor for Long QT Syndrome? *36 months*	£272,345.00
FS/CRTF/21/24273	**Dr C Taggart**	University of Edinburgh	Improving the management of patients with type 2 myocardial infarction. *24 months*	£134,391.10
FS/CRTF/21/24144	**Dr Z Ashkir**	University of Oxford	Sarcomere positive and negative hypertrophic cardiomyopathy – two distinct pathophysiological entities? *36 months*	£388,748.05
FS/CRTF/22/24293	**Dr J Pan**	University of Oxford	The effect of very low calorie diets in patients with obesity and HFpEF. *36 months*	£326,471.89
FS/CRTF/21/24268	**Dr K Thomas**	University of Oxford	The evaluation of advanced cardiac imaging biomarkers for diagnosis of cardiac inflammation in patients with sarcoidosis. *36 months*	£359,345.33

Note: Two awards totalling £478,585.63 were declined.

MBPhD Studentship

Reference number	Name	Institution	Grant title	Total
FS/MBPhD/22/28005	**Mr T Tran**	University of Glasgow	Mitigation of COVID-19 through cardiovascular pharmacotherapy. *36 months*	£87,975.00

Regenerative Medicine Centres

Listed alphabetically by institute

Reference number	Name	Institution	Grant title	Total
RM/21/290001	**Prof A H Baker**	University of Edinburgh	BHF Centre of Regenerative Medicine (round 3). *36 months*	£712,691.36
RM/21/290002	**Prof C Denning**	University of Nottingham	BHF Centre of Regenerative Medicine (round 3). *36 months*	£475,165.00
RM/21/290003	**Prof P R Riley**	University of Oxford	BHF Centre of Regenerative Medicine (round 3). *36 months*	£352,698.00

Strategic Initiatives

Listed alphabetically by institute

Reference number	Name	Institution	Grant title	Total
SI/F/22/21170007	**Prof R H Stables**	British Cardiovascular Society	The BHF Clinical Research Collaborative 2022-2027. *60 months*	£1,654,900.00
SI/F/22/21170008	**Professor Sir Rory Collins**	University of Oxford	UK Biobank Core Renewal Years 6-10 (joint funding with UKRI, CRUK, WT and DHSC). *60 months*	£3,170,000.00

Infrastructure Grant

Reference number	Name	Institution	Grant title	Total
IG/F/21/50010	**Prof D Dawson**	University of Aberdeen	Replacement of (ultrasound) echocardiography equipment for clinical research. *12 months*	£73,604.00

Special Project Grants

Listed alphabetically by institute

Reference number	Name	Institution	Grant title	Total
SP/F/21/150026	**Dr S Candy**	Academy of Medical Sciences	Academy of Medical Sciences Clinical Lecturer Starter Grants (renewal: years 11-14). *48 months*	£548,000.00
SP/F/21/150013	**Dr P D Taylor**	King's College London	Children of UPBEAT: a study of cardiovascular function in 10-year-old children of obese women who participated in an antenatal lifestyle intervention. *36 months*	£649,921.75
SP/F/21/150020	**Prof A Hughes**	University College London	Adult peak circulatory capacity in the Avon Longitudinal Study of Parents and Children (ALSPAC): mechanisms and exposures (ACME). ***31 months***	£441,633.70
SP/F/21/150023	**Prof A Poole**	University of Bristol	Bioengineering platelets for cardiac repair. *36 months*	£946,936.41
SP/F/22/150028	**Prof H Markus**	University of Cambridge	Immune cell reprogramming and neuroinflammation in cerebral small vessel disease (joint funding with DZHK and DHF). *48 months*	£1,081,396.00
SP/F/22/150029	**Prof A H Baker**	University of Edinburgh	Exploiting endothelial long non-coding RNAs to promote regenerative angiogenesis in the damaged myocardium (joint funding with DZHK and DHF). *48 months*	£357,132.00
SP/F/22/150031	**Prof M Symonds**	University of Nottingham	A cool battle: cold as a therapeutic strategy to comBAT cardiovascular diseases (joint funding with DZHK and DHF). *48 months*	£272,288.52
SP/F/22/150027	**Prof D Paterson**	University of Oxford	Cardiac-neural co-culture model development to study mechanism of arrhythmia in human channelopathies. *36 months*	£686,846.15

Clinical Study Grants

Listed alphabetically by institute

Reference number	Name	Institution	Grant title	Total
CS/F/21/190038	**Prof A Davies**	Imperial College London	Best Endovenous treatment, including STenting, versus best non-endovenous treatment in chronic proximal deep venous disease – the BEST multi-centre randomised controlled trial. *48 months*	£737,451.35
CS/F/21/190036	**Dr Z Whinnett**	Imperial College London	PROTECT-HF: Physiological vs Right ventricular pacing Outcome Trial Evaluated for bradyCardia Treatment. *78 months*	£1,689,637.26
CS/F/21/190041	**Prof D P Taggart**	University of Oxford	Randomised trial of bilateral versus single internal thoracic artery graft surgery follow-up to 15 years: the Arterial Revascularisation Trial (ART). *12 months*	£148,513.59

Programme Grants

Listed alphabetically by institute

Reference number	Name	Institution	Grant title	Total
RG/F/22/110059	**Prof D Francis**	Imperial College London	UNITY: UK collaborative for integrating AI into echocardiography. *60 months*	£1,499,538.07
RG/F/21/110053	**Prof M Mayr**	King's College London	Proteomics for a new era of cardiovascular precision medicine. *48 months*	£1,200,541.50
RG/F/21/110064	**Prof C Shanahan**	King's College London	Mechanisms of vascular smooth muscle cell ageing and calcification – towards novel therapeutic interventions. *36 + 24 months*	£1,488,939.61
RG/F/22/110052	**Prof H Markus**	University of Cambridge	Using genetics to better understand disease processes in cerebral small vessel disease and vascular cognitive impairment to improve treatment and prediction. *48 months*	£1,099,770.00

RG/F/22/110067	**Prof K Naseem**	University of Leeds	Dysregulation of platelet phosphodiesterase 3A isoforms promote platelet hyperactivity in atherothrombotic disease. *60 months*	£990,139.98
RG/F/21/110050	**Prof B D Keavney**	University of Manchester	Discovery and functional characterisation of genetic variants predisposing to congenital heart disease (renewal). *36 + 24 months*	£1,134,229.16
RG/F/21/110055	**Dr D Oceandy**	University of Manchester	Targeting the Hippo pathway to control adverse cardiac remodelling. *36 + 24 months*	£728,352.00
RG/F/21/110035	**Prof D Tyler**	University of Oxford	Clinical application of hyperpolarised magnetic resonance imaging in the healthy, hypertrophied and failing human heart. *36 + 24 months*	£1,299,546.18
RG/F/21/110047	**Prof M MacLean**	University of Strathclyde	Obesity and estrogen metabolism in pulmonary arterial hypertension. *48 months*	£742,222.18

New Horizons Grant

Reference number	Name	Institution	Grant title	Total
NH/F/21/70005	**Dr C Muellenbroich**	University of Glasgow	Whole-heart correlative imaging in a mouse model of myocardial infarction. *36 months*	£299,713.00

Translational Awards

Listed alphabetically by institute

Reference number	Name	Institution	Grant title	Total
TA/F/21/210034	**Prof G Lombardi**	King's College London	Regulatory T cell treatment for the prevention of CAV in children receiving heart transplant. *36 months*	£401,383.64
TA/F/21/210028	**Prof M Caputo**	University of Bristol	Wharton's jelly-derived mesenchymal stromal cells seeded graft for right ventricular outflow tract reconstruction in patients with Tetralogy of Fallot/pulmonary atresia. *36 months*	£746,301.26
TA/F/21/210031	**Dr F Serracino-Inglott**	University of Manchester	The development and evaluation of an improved multi-lumen femoral artery access port for complex endovascular aortic aneurysm repair. *25 months*	£195,390.51
TA/F/21/210036	**Prof J Gunn**	University of Sheffield	VIRTU-4HE: Virtual (computed) fractional flow reserve: implications for the provision of healthcare. *24 months*	£220,631.50

Project Grants

Listed alphabetically by institute

Reference number	Name	Institution	Grant title	Total
PG/22/10854	**Dr V Sboros**	Heriot Watt University, Edinburgh	Development of peripheral artery disease diagnosis using super-resolution ultrasound imaging. *27 months*	£178,301.55
PG/21/10557	**Assoc Prof S Yarwood**	Heriot Watt University, Edinburgh	Defining EPAC1 contribution to experimental atherosclerosis. *36 months*	£298,896.82
PG/22/10715	**Dr G Cole**	Imperial College London	Improving beta-blocker use in heart failure: a randomised n-of-1 trial to identify nocebo effects and inform patients' decision making. *36 months*	£322,908.93
PG/21/10821	**Prof J Crawley**	Imperial College London	Structural control of ADAMTS13 function and its autoimmune recognition. *29 months*	£323,817.93
PG/22/10871	**Dr M Bishop**	King's College London	Development and clinical validation of an in silico pace mapping approach utilising implanted device EGMs to accurately guide VT ablation. *30 months*	£347,562.12
PG/21/10790	**Dr M J Curtis**	King's College London	The antiarrhythmic properties and mechanism of action of an ischaemia-activated prodrug of diltiazem. *36 months*	£230,198.09
PG/21/10534	**Prof S Niederer**	King's College London	Measuring and modelling atrial mechanics in health and heart failure. *36 months*	£315,477.16
PG/21/10498	**Prof D Middleton**	Lancaster University	Defining the quality of good cholesterol from a combined structural and functional perspective. *24 months*	£117,942.46
PG/21/10761	**Dr G Richardson**	Newcastle University	Identifying older donor hearts suitable for transplantation: the use of senescence as a marker of biological age. *24 months*	£243,111.00
PG/22/10788	**Dr G Richardson**	Newcastle University	Senotherapy to improve recovery post cardiac ischaemia reperfusion. *36 months*	£304,017.02
PG/21/10619	**Prof S Petersen**	Queen Mary University of London	Long-term effects of SARS-CoV-2 infection on cardiovascular morbidity and its determinants. *12 months*	£133,653.29
PG/21/10491	**Prof K Suzuki**	Queen Mary University of London	Production of IL-4-expressing iPSC-derived mesenchymal stromal cells: as a promising donor for cell-based therapy of myocardial infarction. *24 months*	£197,113.00
PG/21/10762	**Dr J Williams**	Queen Mary University of London	The role of MYLK3 in cardiac signalling and development. *36 months*	£304,103.21
PG/21/10689	**Dr K O'Neill**	Queen's University Belfast	Targeting DNA methylation as a novel approach to restore endothelial colony-forming cell angiogenic dysfunction in ischaemic disease. *36 months*	£284,711.58

PG/21/10815	**Prof E Behr**	St George's, University of London	Genetic risk for sudden death in infancy: a first genome-wide association study in SIDS. *24 months*	£108,552.00
PG/21/10631	**Prof J Halcox**	Swansea University	Cardiovascular risk factor assessment and treatment in patients with depression in Wales: a data linkage study. *24 months*	£121,177.50
PG/21/10657	**Assoc Prof S Zisimopoulos**	Swansea University	Characterisation of ryanodine receptor association with sorcin homologues. *36 months*	£229,429.00
PG/22/10862	**Prof V Budhram Mahadeo**	University College London	Investigating the roles for Brn-3b in controlling VSMC contractility and calcium signalling and determine relevance of its loss in patients with hypertension and CVD. *36 months*	£349,986.52
PG/21/10798	**Prof S Davidson**	University College London	Novel approaches to target hypercontracture and protect the heart following ischaemia and reperfusion injury. *36 months*	£219,197.98
PG/22/10935	**Prof C Ruhrberg**	University College London	Molecular mechanisms in lung vascular development. *24 months*	£180,486.66
PG/21/10776	**Dr D Williams**	University College London	Do common pathogens affect cerebral small vessel disease and amyloidosis? Examining the neuropathological consequences of infectious disease burden. *12 months*	£80,694.06
PG/21/10555	**Prof M Delibegovic**	University of Aberdeen	Targeting PTP1B to prevent diabetic retinopathy. *36 months*	£286,045.00
PG/21/10574	**Dr N Kalia**	University of Birmingham	Coronary microcirculation and diabetes – pathophysiological role of the IL-36/IL-36R pathway. *36 months*	£249,094.66
PG/21/10737	**Dr J Rayes**	University of Birmingham	The role of S100A8/A9 in thrombo-inflammation associated with chronic inflammatory disease. *36 months*	£226,581.62
PG/22/10843	**Prof P Madeddu**	University of Bristol	Transferring healthy longevity gene to improve age-related heart dysfunction. *24 months*	£172,004.47
PG/21/10760	**Prof A Poole**	University of Bristol	Molecular mechanisms underlying the essential role for platelet Ral GTPases in venous thrombosis. *24 months*	£187,880.02
PG/21/10646	**Dr R Richardson**	University of Bristol	Investigating osteopontin as a regulator of macrophage dynamics in zebrafish cardiac repair and regeneration. *18 months*	£127,284.11
PG/21/10816	**Prof Z Mallat**	University of Cambridge	Comprehensive analysis of plaque infiltrating ILC2 in human cardiovascular disease. *36 months*	£257,957.00
PG/22/10898	**Dr M Nus Chimeno**	University of Cambridge	Targeting the gut microbiota-adaptive immune response axis to modulate atherosclerosis. *36 months*	£253,797.00

PG/22/10807	**Dr C Wilson**	University of Cambridge	Activating cardiac repair with Myc and Cyclin T1 in a mouse model of myocardial infarct. *36 months*	£280,198.00
PG/21/10624	**Prof A H Baker**	University of Edinburgh	Defining the endothelial cell response in pulmonary hypertension by single cell transcriptomics. *24 months*	£81,835.00
PG/22/10916	**Dr A Caporali**	University of Edinburgh	MicroRNA-26b/SMAD1 controls vascular calcification. *24 months*	£175,383.86
PG/22/10805	**Prof M Reed**	University of Edinburgh	Qualitative study to explore the acceptability of an accelerated syncope strategy to patients and staff involved in the ASPIRED trial. *6 months*	£21,604.11
PG/22/10847	**Prof W Fuller**	University of Glasgow	Therapeutic manipulation of sodium/calcium exchanger activity. *36 months*	£349,049.00
PG/21/10634	**Prof P Maffia**	University of Glasgow	Defining the IL-21/IL-21 receptor axis role(s) in atherosclerosis. *24 months*	£190,222.00
PG/21/10559	**Prof S Nicklin**	University of Glasgow	Cardiac-targeted extracellular vesicle-mediated delivery of angiotensin-(1-7) to treat hypertensive heart disease. *36 months*	£255,197.80
PG/21/10547	**Assoc Prof S Bowen**	University of Leeds	Heart failure induced diaphragm myopathy: mediated by impairments to sarcoplasmic reticulum calcium homeostasis? *36 months*	£243,285.10
PG/21/10819	**Prof K Naseem**	University of Leeds	The role of BACE-1 in the regulation of platelet function, haemostasis and thrombosis. *36 months*	£249,499.25
PG/21/10595	**Assoc Prof J Shi**	University of Leeds	Modulation of mechanically-activated PIEZO1 channel by ceramide. *30 months*	£289,401.42
PG/21/10724	**Dr P Swoboda**	University of Leeds	A pragmatic approach to the investigation of stable chest pain: health economic and quality of life analysis of a UK, multi-centre, randomised trial. *36 months*	£148,664.48
PG/21/10702	**Dr J Arnold**	University of Leicester	Assessing the impact of comorbidities and sociodemographic factors on multi-organ injury following Covid-19 infection (COSMIC). *12 months*	£346,372.36
PG/21/10521	**Dr N Helassa**	University of Liverpool	Characterisation of novel cardiac troponin I mutants associated with human hypertrophic cardiomyopathy. *36 months*	£215,475.75
PG/22/10902	**Dr K Dibb**	University of Manchester	Understanding the cardioprotective role of the membrane repair protein dysferlin in health and disease. *36 months*	£259,519.00
PG/22/10904	**Dr W Liu**	University of Manchester	Does modulation of cardiac HMGB1 prevent myocardial inflammation in diabetes? *36 months*	£249,873.00

PG/21/10730	**Dr E Pinteaux**	University of Manchester	Understanding the specific role of IL-1alpha and IL-1beta during post-stroke cerebrovascular inflammation. *24 months*	£151,861.00
PG/22/10924	**Dr D Talavera**	University of Manchester	Identification of gene-dosage imbalances causing congenital heart disease. *36 months*	£194,259.00
PG/21/10796	**Prof D Bates**	University of Nottingham	Control of splicing as a therapeutic target in peripheral vascular disease. *24 months*	£185,550.00
PG/22/10913	**Prof D Bates**	University of Nottingham	SRPK1 as a potential therapeutic target in diabetic nephropathy. *36 months*	£293,111.59
PG/21/10545	**Prof C Denning**	University of Nottingham	Evaluating the role of novel loci in hypertrophic cardiomyopathy. *36 months*	£301,755.65
PG/21/10704	**Prof S De Val**	University of Oxford	Delineating a regulatory pathway controlling coronary vessel formation. *19 months*	£156,879.12
PG/21/10792	**Dr D Dearlove**	University of Oxford	An investigation into the interaction between polygenic burden for dyslipidaemia and dietary macronutrient composition. *36 months*	£213,791.51
PG/22/10892	**Assoc Prof N Smart**	University of Oxford	CALHM2, a congenital heart disease gene regulating cardiac development, metabolism and function. *36 months*	£270,860.06
PG/21/10661	**Prof P Swietach**	University of Oxford	Curtailing maladaptive cardiac hypertrophy with inhibitors against the surface-expressed NBCn1 (Slc4a7) protein: a novel and accessible anti-hypertrophic target with reduced burden of side-effects. *36 months*	£274,350.48
PG/21/10611	**Prof M Zaccolo**	University of Oxford	Role of cyclic nucleotides signalling in Duchenne muscular dystrophy cardiomyopathy. *36 months*	£295,913.35

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