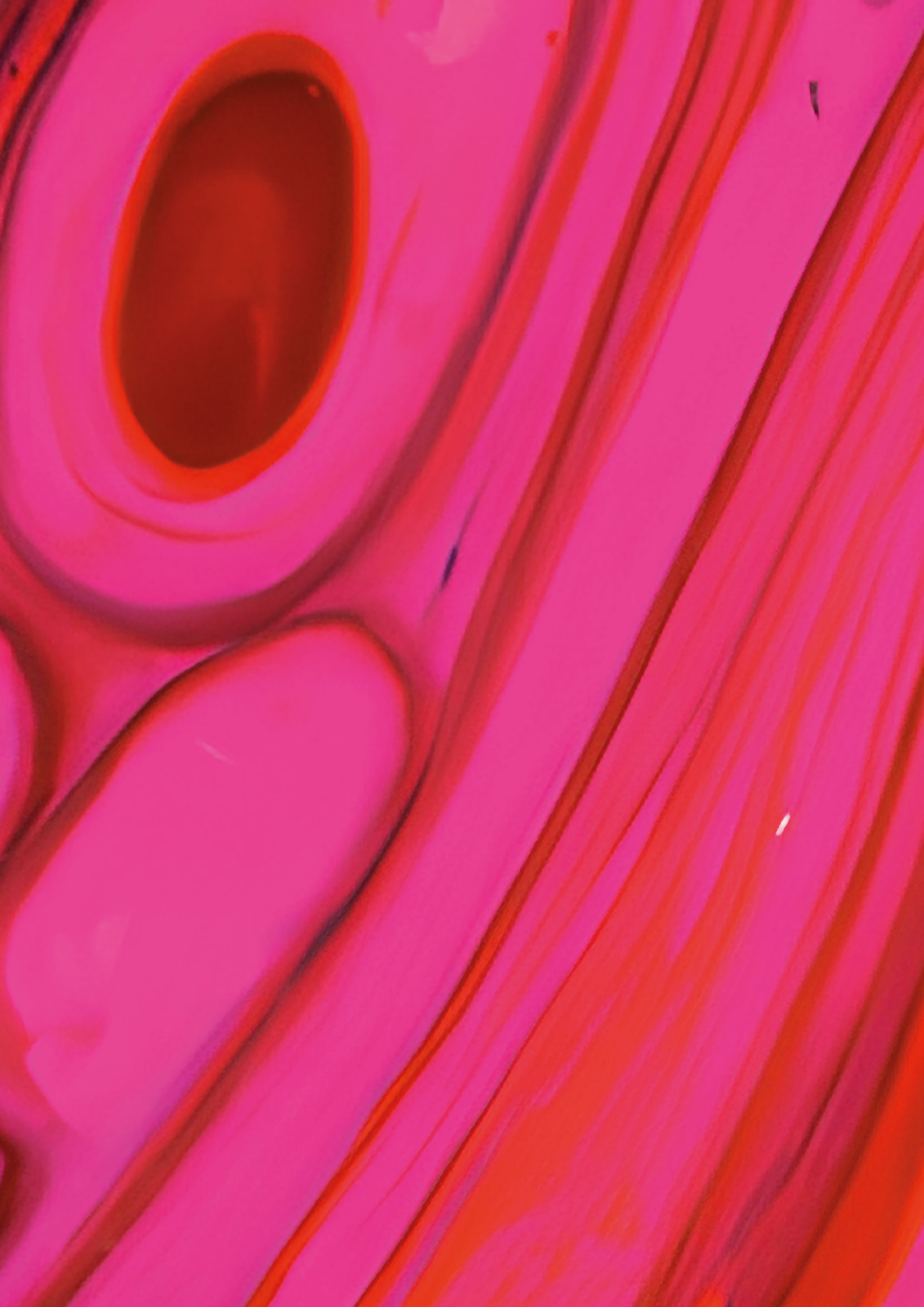
British Heart Foundation

Research Grant Awards 2023 – 2024



Contents

Introduction

In the year April 2023 to March 2024 British Heart Foundation (BHF) awarded grants totalling £119.3 million[1] for research into the causes, prevention, diagnosis and treatment of diseases of the heart and circulation.

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. Applicants for Translational Awards, and shortlisted applicants for Personal Chairs, and for Intermediate and Senior Fellowships are interviewed.

The Chairs and Programme Grants Committee awarded £63.9 million[2]. This included £35 million to eight BHF Centres of Research Excellence and one Accelerator Award, and £7.5 million to a joint BHF Vascular Dementia Research Institute with UK DRI.

There were 26 awarded Chairs (also referred to as BHF Professors) on 31 March 2024. Each chairholder receives a site visit 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 £5.2 million to six applications.

The Translational Awards Committee awarded £0.1 million[3] to one application 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 £26.6 million to 74 applications[4], and the Project Grants Committee awarded £16 million to 59 applications.

The pages that follow list BHF Chairholders and new awards made during the year for Programme Grants, Clinical Study Grants, 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

1 This figure includes supplements made to existing grants, as well as £1,233,000.68 towards 50 Open Access Block Grants and £41,843.00 towards 14 Small Meetings which are not listed in the following pages.

2 In addition the Chairs and Programme Grants Committee approved £12 million towards a joint Centre of Research Excellence with MRC and £2,508,765.00 towards a BHF/CRICK Early Career Group Leader Award which will be recognised in the accounts in 2024/25 once agreements have been signed.

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

4 Two awards totalling £336,779.98 included in this figure were declined.

BHF Chairholders

Listed by institution

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.

Imperial College London

The Chair of Cardiovascular Proteomics

Held by: **Professor M Mayr**
(transferred from King's College London on 1 September 2023)

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

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 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 Birmingham

The Chair of Cardiovascular Sciences and Cellular Pharmacology

Held by: **Professor S P Watson**

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

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 interests: 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 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 Chair of Cardiology

Held by: **Professor N L Mills**

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 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 Vascular Surgery

Held by: **Professor M Bown**

Major interest: Causes of, and screening for, aortic abdominal aneurysms, and treatments for peripheral arterial disease.

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.

University of Manchester

The Chair of Cardiology

Held by: **Professor B D Keavney**

Major interest: Genetics of heart disease.

University of Oxford

The Chair of Cardiovascular Medicine

Held by: **Professor C Antoniades**

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 interests: 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 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 R Collins**

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**

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 interests: Genetics and underlying molecular mechanisms in hypertrophic cardiomyopathy; genetics of coronary artery disease.

Awards made during the year
1 April 2023 – 31 March 2024

Fellowships

Listed alphabetically by institution

NON-CLINICAL FELLOWSHIPS

Intermediate Basic Science Research Fellowships

Reference number	Name	Institution	Grant title	Total
FS/IBSRF/23/25168	**Dr M Fernandez Caggiano**	Queen Mary University of London	Protection from heart failure by pharmacologically increasing mitochondrial pyruvate carrier expression. *60 months*	£705,158.22
FS/IBSRF/23/25173	**Dr E Avolio**	University of Bristol	Rescuing pericyte function through MEK-inhibition to aid myocardial vascularisation and cardiac performance in ageing and ischaemia. *60 months*	£771,507.51
FS/IBSRF/23/25156	**Dr D Paul**	University of Bristol	Structure and function of filamentous actin in the cardiac thin filament and in activating platelets, and its role in cardiac disease. *60 months*	£779,711.82
FS/IBSRF/23/25178	**Dr K Skeffington**	University of Bristol	The effects of exposure to foetal and neonatal chronic hypoxia on cardiac remodelling and vulnerability to postnatal ischaemia reperfusion injury. *60 months*	£532,360.31
FS/IBSRF/23/25161	**Dr D Kimenai**	University of Edinburgh	Dynamic risk estimation systems to better predict and prevent cardiovascular disease. *60 months*	£700,117.10
FS/IBSRF/23/25175	**Dr G Matrone**	University of Edinburgh	Role of the S-nitrosylation of nuclear proteins in cardiac regeneration. *60 months*	£795,995.60
FS/IBSRF/24/25202	**Dr L Boyman**	University of Oxford	Targeting mitochondrial soluble adenylyl cyclase signalling pathway to augment energy supply in the infarcted heart. *60 months*	£871,118.63
FS/IBSRF/23/25155	**Dr C Sigalas**	University of Oxford	Molecular, cardiac and neuronal mechanisms underlying catecholaminergic polymorphic ventricular tachycardia. *60 months*	£844,908.27
FS/IBSRF/23/25190	**Dr Q Zhang**	University of Oxford	'Virtual native enhancement': novel artificial intelligence approaches to MRI for rapid and robust assessment of myocardial fibrosis without the need for injectable contrast agents. *60 months*	£803,623.33

Career Re-entry Research Fellowship

Reference number	Name	Institution	Grant title	Total
FS/CRERF/DJT/24/22503	**Dr J Swann**	University of Birmingham	Joint BHF/Daphne Jackson Fellowship: establishing a microfluidic model of thrombus and endothelial cell interaction under flow as a tool for application of novel imaging techniques. *36 months*	£149,581.37

Immediate Postdoctoral Basic Science Research Fellowships

Reference number	Name	Institution	Grant title	Total
FS/IPBSRF/23/27098	**Dr Y Zhu**	Imperial College London	Development of a novel Aortic Dissection REpair Simulator System (ADRESS) to model clinical outcome prior to type A aortic dissection repair. *48 months*	£378,610.15
FS/IPBSRF/23/27090	**Dr H Allan**	Queen Mary University of London	Investigating the involvement of mitochondrial dynamics in the regulation of megakaryocyte maturation and platelet lifespan. *48 months*	£374,070.32
FS/IPBSRF/23/27070	**Dr L Simpson**	University of Bristol	Under stress: why are women of Black African-Caribbean heritage at elevated risk of hypertensive disorders and hypertensive-related stroke? *48 months*	£313,446.90
FS/IPBSRF/23/27085	**Dr I McCracken**	University of Oxford	Determining the key regulators of endocardial to coronary endothelial cell transition in development and disease. *48 months*	£406,310.02
FS/IPBSRF/23/27089	**Dr O Shabir**	University of Sheffield	Repurposing arthritis drugs for dementia. *48 months*	£383,841.00

4-year PhD Studentships

Reference number	Name	Institution	Grant title	Total
FS/4yPhD/F/23/34202	**Prof J Mitchell**	Imperial College London	ICL 3rd intake, 2023 4-Year PhD Studentship (5th) Scheme: Ms Elizabeth Pyman; Ms Lisa Ribau; Ms Tamara Vujic. *48 months*	£504,034.80
FS/4yPhD/F/23/34199	**Dr A Ivetic**	King's College London	KCL 3rd intake, 2023 4-Year PhD Studentship (5th) Scheme: Ms Melissa Amerudin; Mr Ludovic Boas; Ms Cristina Mazzotti. *48 months*	£502,090.80
FS/4yPhD/F/23/34196	**Prof A Ahluwalia**	Queen Mary University of London	QMUL 3rd intake, 2023 4-Year PhD Studentship (5th) Scheme: Mr Naseem Adeniran; Ms Eva Holland; Ms Kulsama Uddin. *48 months*	£479,923.80
FS/4yPhD/F/23/34204	**Prof V Muthurangu**	University College London	UCL 3rd intake, 2023 4-Year PhD Studentship (5th) Scheme: Ms Hannah Ford; Ms Phillipa Garbutt; Ms Imogen Heenan. *48 months*	£491,119.80
FS/4yPhD/F/23/34195	**Prof A Poole**	University of Bristol	Bristol 3rd intake, 2023 4-Year PhD Studentship (5th) Scheme: Ms Emily Donaldson; Ms Alice Etheridge; Mr Jonathan Furniss. *48 months*	£443,459.40
FS/4yPhD/F/23/34198	**Prof M Clarke**	University of Cambridge	Cambridge 3rd intake, 2023 4-Year PhD Studentship (5th) Scheme: Ms Zoe Colucci; Ms Katherin Hammond; Ms Lucy O'Byrne. *48 months*	£513,227.40

4-year PhD Studentships (continued)

Reference number	Name	Institution	Grant title	Total
FS/4yPhD/F/23/34197	**Prof M Bailey**	University of Edinburgh	Edinburgh 3rd intake, 2023 4-Year PhD Studentship (5th) Scheme: Mr Wang Chun (Oscar) Cheung; Ms Emma Clare; Ms Eiry Jones. *48 months*	£460,421.40
FS/4yPhD/F/23/34193	**Prof E Davies**	University of Glasgow	Glasgow 3rd intake, 2023 4-Year PhD Studentship (5th) Scheme: Ms Hannah Fulton; Ms Anna Hodgson; Mr Ross Lawrence. *48 months*	£442,319.40
FS/4yPhD/F/23/34194	**Dr R Cubbon**	University of Leeds	Leeds 3rd intake, 2023 4-Year PhD Studentship (5th) Scheme: Ms Tamara Garcia Del Toro; Mr Thomas Palmer-Dench; Ms Nicole Powell. *48 months*	£445,208.40
FS/4yPhD/F/23/34200	**Prof A Ng**	University of Leicester	Leicester 3rd intake, 2023 4-Year PhD Studentship (5th) Scheme: Mr James Day; Ms Rabiya Gangrekar; Ms Annabel Hong. *48 months*	£445,367.40
FS/4yPhD/F/23/34203	**Prof E Cartwright**	University of Manchester	Manchester 3rd intake, 2023 4-Year PhD Studentship (5th) Scheme: Mr Benjamin Llewellyn; Ms Izobelle Morrell-Neal; Ms Temiloluwa Somorin. *48 months*	£442,709.40
FS/4yPhD/F/23/34201	**Prof D Greaves**	University of Oxford	Oxford 3rd intake, 2023 4-Year PhD Studentship (5th) Scheme: Mr Toby Brown; Ms Catherine King; Ms Sophie Marlow. *48 months*	£506,435.40

3-year PhD Studentships

Reference number	Name	Institution	Grant title	Total
FS/PhD/23/29378	**Ms G Toerien-Howie**	Cardiff University	Investigating myofilaments as a trigger for spontaneous systolic calcium release. *36 months*	£122,873.56
FS/PhD/24/29478	**Ms R Saputil**	Imperial College London	Exploring the cause of thrombosis in immune thrombocytopenia. *36 months*	£141,357.54
FS/PhD/23/29418	**Ms T Siddall**	Imperial College London	Characterising the effects of commonly prescribed antiretroviral drugs on platelets to improve understanding of cardiovascular risk in people living with HIV. *36 months*	£130,883.80
FS/PhD/24/29460	**Student to be confirmed –** *(Supervisor: Prof C Terracciano)*	Imperial College London	The role of small extracellular vesicles in myocardial hypoxia-reoxygenation injury studied with living myocardial slices. *36 months*	£145,529.53
FS/PhD/23/29448	**Mr J Warren**	Kingston University London	Regulation of cardiomyocyte protein synthesis and pathological hypertrophy by TIP41-like protein (TIPRL): a regulator of mTOR signalling. *36 months*	£125,267.80

3-year PhD Studentships (continued)

FS/PhD/23/29442	**Student to be confirmed –** *(Supervisor: Dr A Unsworth)*	Manchester Metropolitan University	Investigating the role of E2 ubiquitin ligase Ubc13 in the regulation of platelet function, haemostasis and thrombosis. *36 months*	£127,516.90
FS/PhD/23/29393	**Ms R Moy**	St George's, University of London	Genetics of primary lymphoedema: identifying non-coding variation and functional investigations using a 3D lymphatic vessel-on-a-chip model. *36 months*	£131,774.80
FS/PhD/24/29470	**Ms I Buckle**	University College London	Characterisation of autoantibody resistant ADAMTS13 variants and CUB domain epitope mapping. *36 months*	£143,080.24
FS/PhD/23/29384	**Student to be confirmed –** *(Supervisor: Prof J Griffin)*	University of Aberdeen	Understanding the role of lipid metabolism in heart failure. *36 months*	£115,309.00
FS/PhD/NC3Rs/24/29909	**Student to be confirmed –** *(Supervisor: Dr A Brill)*	University of Birmingham	Joint NC3Rs/BHF PhD Studentship: Development of vessel-on-chip device to study mechanisms of deep vein thrombosis. *36 months*	£100,000.00
FS/PhD/23/29422	**Ms V Tinkova**	University of Birmingham	Understanding the role of neutrophil extracellular traps-associated S100A12 in thrombo-inflammation during sepsis. *36 months*	£122,136.04
FS/PhD/23/29377	**Ms L Hadfield**	University of Bristol	The hard facts about vascular inflammaging: role of vascular stiffness on vascular smooth muscle cell inflammatory phenotype. *36 months*	£118,784.00
FS/PhD/23/29429	**Student to be confirmed –** *(Supervisor: Dr M Birket)*	University of Manchester	Deciphering the regulation of NKX2-5, a key transcription factor in heart development, to uncover the fundamental mechanisms of cardiac cell differentiation from stem cells. *36 months*	£135,870.90
FS/PhD/24/29477	**Ms C Fifirig**	University of Manchester	Functional investigation of the 15q11.2 (BP1-BP2) deletion in congenital heart disease. *36 months*	£128,985.90
FS/PhD/24/29467	**Ms H Williamson**	University of Manchester	Investigating the effects of exercise on perivascular adipose tissue function and inflammation in obesity-related cardiovascular disease. *36 months*	£129,048.90
FS/PhD/23/29394	**Ms C Harper**	University of St Andrews	Zinc-mediated effects on the fibrin network and its importance in thrombotic disease. *36 months*	£117,081.00
FS/PhD/23/29413	**Ms M Cameron Ruiz**	University of Strathclyde	Investigating cobalt cardiotoxicity in contractile and non-contractile cells of the heart. *36 months*	£114,423.90
FS/PhD/24/29406	**Ms L Moss**	University of York	Modifying thrombopoietin to manipulate megakaryocyte differentiation and platelet production. *36 months*	£116,148.90

Note: One award totalling £121,836.80 was declined.

CLINICAL FELLOWSHIPS

Intermediate Clinical Research Fellowships

Reference number	Name	Institution	Grant title	Total
FS/ICRF/23/26065	**Dr J Bargehr**	University of Cambridge	A hypoimmunogenic cardiac patch for optimised grafting and immunosuppression-related complications in chronic myocardial ischaemia. *60 months*	£1,139,651.00
FS/ICRF/24/26101	**Dr I Mordi**	University of Dundee	Improving prevention and treatment of heart failure in type 1 diabetes. *60 months*	£1,301,415.00

Clinical Research Training Fellowships

Reference number	Name	Institution	Grant title	Total
FS/CRTF/23/24459	**Dr R Bahl**	Imperial College London	Coronary epicardial and microcirculatory determinants of ventricular tachycardia tolerability. *36 months*	£300,073.10
FS/CRTF/23/24447	**Dr O Jones**	Imperial College London	Ablation of focal activation during persistent atrial fibrillation to determine the characteristics of focal drivers. *36 months*	£248,659.90
FS/CRTF/23/24417	**Dr A Naraen**	Imperial College London	Novel solutions to the challenges in implantation and follow-up of conduction system pacing. *36 months*	£315,035.12
FS/CRTF/24/24554	**Dr T Ng**	Imperial College London	Unifying the assessment of left ventricular function across imaging modalities using artificial intelligence openly developed by a UK-wide collaboration of experts. *36 months*	£330,948.40
FS/CRTF/23/24482	**Dr K Saleh**	Imperial College London	Unmasking concealed arrhythmia syndromes. *36 months*	£345,619.37
FS/CRTF/24/24584	**Mr B Turner**	Imperial College London	The role of anti-inflammatory treatments in the prevention of post-thrombotic fibrosis. *36 months*	£305,668.56
FS/CRTF/23/24448	**Dr M Yazdani**	Imperial College London	Examining the significance of desmoplakin variants in cardiomyocyte vulnerability to viral and inflammatory injury. *36 months*	£280,258.17
FS/CRTF/23/24539	**Mr M Rasiah**	King's College London	Real-time modelling of spinal cord blood flow using artificial intelligence generated digital twins for personalised prediction and risk management of paraplegia following aortic surgery. *36 months*	£281,294.60
FS/CRTF/23/24520	**Dr L Spray**	Newcastle University	Deep immunophenotyping and functional analysis of leucocytes in heart failure. *36 months*	£332,714.17

Clinical Research Training Fellowships (continued)

FS/CRTF/23/24428	**Dr K Hesse**	Queen Mary University of London	Heterogeneity biomarkers on cardiovascular magnetic resonance imaging: measuring structural and functional variation in precision cardiology. *36 months*	£270,993.80
FS/CRTF/23/24485	**Dr J Griffiths**	St George's, University of London	Molecular distinction between arrhythmogenic cardiomyopathy and Brugada syndrome. *36 months*	£213,506.90
FS/CRTF/23/24508	**Dr S Kamya**	University of Aberdeen	Sodium-glucose transporter type 2 inhibition in anthracycline-related cardiotoxicity. *36 months*	£363,696.88
FS/CRTF/23/24515	**Dr A Al-Hadithi**	University of Cambridge	Low-dose interleukin-2, regulatory T and B cells, and coronary inflammation in patients with acute coronary syndromes. *36 months*	£281,021.60
FS/CRTF/23/24445	**Dr C Wall**	University of Cambridge	Interrogating the intersection between inflammation and lipid lowering in patients with carotid atherosclerosis using somatostatin receptor 2 PET/MRI. *24 months*	£197,562.00
FS/CRTF/23/24491	**Dr M McDermott**	University of Edinburgh	Data and diagnostic testing to redesign rapid access chest pain pathways. *24 months*	£236,056.16
FS/CRTF/23/24504	**Dr H Preston**	University of Edinburgh	Understanding the cardiovascular and renal consequences of acute kidney injury using manganese-enhanced magnetic resonance imaging. *30 months*	£233,841.55
FS/CRTF/23/24524	**Mr R Laloo**	University of Leeds	Platelet derived growth factor receptor β driven vascular smooth muscle cell remodelling as a driver of abdominal aortic aneurysm growth. *36 months*	£273,317.21
FS/CRTF/23/24495	**Dr S Ayton**	University of Leicester	The role of adiposity and dysregulated lipid handling in heart failure with preserved ejection fraction: an integrated multimodality imaging and lipidomics approach. *36 months*	£266,443.72
FS/CRTF/23/24452	**Ms S Messeder**	University of Leicester	Physical Activity after Cardiovascular Screening (PACS). *24 months*	£160,388.09
FS/CRTF/23/24469	**Dr S Al-Othman**	University of Manchester	Targeting galectin-3 to correct cardiac conduction system dysfunction in heart failure. *24 months*	£186,645.72
FS/CRTF/23/24455	**Dr J Chai**	University of Oxford	Characterisation of hyperglycaemia-induced trained immunity in patients with type 2 diabetes and cardiovascular disease. *36 months*	£336,463.22
FS/CRTF/23/24460	**Dr R Kotronias**	University of Oxford	Developing photon-counting coronary computed tomography angiography-based technology to guide management in non-ST segment elevation acute coronary syndromes. *36 months*	£332,356.00
FS/CRTF/24/24561	**Dr J Raby**	University of Oxford	Defining novel interactions between cardiac electrical synchrony, metabolism and function. *36 months*	£372,847.67

Clinical Research Training Fellowships (continued)

FS/CRTF/23/24465	**Dr H Zafar**	University of Sheffield	Assessment of fluid status in animal models of heart failure and pulmonary hypertension. *36 months*	£313,306.80

Research Training Fellowship (for Nurses and Allied Health Professionals)

Reference number	Name	Institution	Grant title	Total
FS/RTF/23/30061	**Ms J Tollit**	University College London	Improving clinical cardiac evaluation for paediatric patients undergoing screening due to a family history of sudden adult death syndrome, sudden infant death syndrome or sudden cardiac arrest. *36 months*	£258,949.96

Note: One award totalling £214,943.18 was declined.

Centres of Research Excellence

Listed alphabetically by institution

Reference number	Name	Institution	Duration	Total
RE/24/130023	**Prof M Mayr**	Imperial College London	*60 months*	£5,000,000.00
RE/24/130035	**Prof A Shah**	King's College London	*60 months*	£4,000,000.00
RE/24/130013	**Prof P Elliot**	University College London	*60 months*	£3,000,000.00
RE/24/130011	**Prof M Bennett**	University of Cambridge	*60 months*	£5,000,000.00
RE/24/130012	**Prof D Newby**	University of Edinburgh	*60 months*	£5,000,000.00
RE/24/130031	**Prof A Ng**	University of Leicester	*60 months*	£3,000,000.00
RE/24/130017	**Prof B Keavney**	University of Manchester	*60 months*	£4,000,000.00
RE/24/130024	**Prof K Channon**	University of Oxford	*60 months*	£5,000,000.00

Accelerator Award

Reference number	Name	Institution	Duration	Total
AA/24/135000	**Prof K Naseem**	University of Leeds	*60 months*	£1,000,000.00

Strategic Initiatives

Listed alphabetically by institution

Reference number	Institution	Grant title	Total
SI/F/24/21170014	British Atherosclerosis Society	Support for the BAS/BSCR basic science track of the 2024 British Cardiovascular Society Conference. *12 months*	£27,820.00
SI/F/24/21170015	British Cardiovascular Society	Support for the 2024 British Cardiovascular Society Conference. *12 months*	£96,703.75
SI/F/24/21170013	UK Dementia Research Institute	UK DRI/BHF Strategic Partnership. *60 months*	£7,500,000.00

Infrastructure Grants

Listed alphabetically by institution

Reference number	Name	Institution	Grant title	Total
IG/F/24/50013	**Prof M Williams**	University of Edinburgh	Deep phenotyping of cardiovascular disease with photon-counting CT. *12 months*	£1,000,000.00
IG/F/23/50012	**Prof P Riley**	University of Oxford	Minimally invasive myocardial infarction surgery. *12 months*	£154,665.50

Special Project Grants

Listed alphabetically by institution

Reference number	Name	Institution	Grant title	Total
SP/J/24/285005	**Prof P Ostergaard**	St George's, University of London	Integrating deep phenotyping and functional genomics to understand the mechanistic basis of primary lymphatic anomalies. (Joint funding with MRC). *60 months*	£350,000.00
SP/J/23/285004	**Dr D Stuckley**	University College London	Multi-scale systems mapping of immune-vascular responses in diabetes. (Joint funding with BIRAX). *36 months*	£199,812.00
SP/F/24/150071	**Dr T Treibel**	University College London	The Improve study: integration of imaging, myocardial proteomics and transcriptomics in valvular heart disease. *36 months*	£799,990.74
SP/F/23/150063	**Prof Z Mallat**	University of Cambridge	Single-cell mapping of human coronary and carotid atherosclerosis. *36 months*	£1,200,000.00

Special Project Grants (continued)

SP/F/23/150058	**Prof A Baker**	University of Edinburgh	Dissecting pathological and adaptive remodelling in saphenous vein grafts. *30 months*	£688,036.24
SP/F/24/150067	**Prof A Baker**	University of Edinburgh	ERA4Health transnational research projects on cardiovascular diseases: non-coding RNA therapeutics to elicit cardiac regeneration in ischaemic heart disease. (Parallel funding). *36 months*	£348,822.56
SP/F/24/150068	**Prof T Guzik**	University of Edinburgh	ERA4Health transnational research projects on cardiovascular diseases: understanding the role of NeuroImmunoMetabolic axis in development of HFpEF. (Parallel funding). *36 months*	£349,831.11
SP/F/23/150059	**Prof G Smith**	University of Glasgow	Novel platform technology: chronic myocardial infarction in rabbits to evaluate next generation therapeutics. *16 months*	£156,202.97
SP/F/24/150062	**Prof J Gibbins**	University of Reading	Plasma microvesicles cause diabetes-dependent platelet hyperactivity and thrombosis (MV-DISPLAY). *36 months*	£692,478.47

Programme Grants

Listed alphabetically by institution

Reference number	Name	Institution	Grant title	Total
RG/F/23/110115	**Prof D Pennell**	Imperial College London	Next-generation diffusion tensor cardiovascular magnetic resonance to characterise cardiac microstructure in health and disease. *60 months*	£1,646,533.00
RG/F/23/110123	**Prof A Hobbs**	Queen Mary University of London	Defining the roles and therapeutic potential of C-type natriuretic peptide in the cardiac and vascular dysfunction underpinning heart failure with preserved ejection fraction. *60 months*	£951,763.10
RG/F/23/110103	**Prof J Danesh**	University of Cambridge	Large-scale integrative molecular studies of CVDs in multi-ethnic cohorts. *60 months*	£1,749,971.00
RG/F/23/110110	**Prof A Vidal Puig**	University of Cambridge	Mechanisms of adipose tissue dysfunction in obesity: role of lipid-mediated metabolic inflammation in adipose tissue macrophages. *60 months*	£1,311,814.00
RG/F/23/110104	**Prof C Berry**	University of Glasgow	Angina after PCI: systems medicine to inform downstream strategies. *60 months*	£1,081,035.00

Programme Grants (continued)

RG/F/23/110112	**Prof R Ariens**	University of Leeds	Targeting the fibrinogen αC-region to reduce blood clotting and thromboembolism. *60 months*	£1,332,606.53
RG/F/24/110125	**Prof G McCann**	University of Leicester	Understanding progression from asymptomatic type 2 diabetes towards heart failure with preserved ejection fraction through multidimensional phenotyping. *60 months*	£1,378,850.01
RG/F/23/110121	**Prof S Bhattacharya**	University of Oxford	Precision therapeutics for cardiovascular inflammation. *60 months*	£1,133,708.02
RG/F/23/110105	**Prof C Monaco**	University of Oxford	The cellular basis of toll-like receptor signalling in atherosclerosis: targeting the drivers of athero-inflammation. *60 months*	£1,274,453.12

International Partnership Awards

Listed alphabetically by institution

Reference number	Name	Institution	Grant title	Total
IA/F/23/275048	**Dr J Burgoyne**	King's College London	SHIFT-DCM – Decoding oxidative stress mechanisms in dilated cardiomyopathy: shifting progressive impairment to cardioprotection. (Joint funding with the German Centre for Cardiovascular Research and the Dutch Heart Foundation). *48 months*	£447,760.94
IA/F/23/275037	**Dr K Gehmlich**	University of Birmingham	Understanding the mechano-signalling role of the Z-disc in the pathogenesis of hypertrophic cardiomyopathy (HeartDisc). (Joint funding with the German Centre for Cardiovascular Research and the Dutch Heart Foundation). *48 months*	£499,927.25
IA/F/23/275057	**Dr A Fraser**	University of Bristol	Bi-national investigation of placental pathology and maternal cardiovascular health (BI-PATH). (Joint funding with the Dutch Heart Foundation). *48 months*	£476,620.35
IA/F/23/275046	**Dr T Zhao**	University of Cambridge	Unlocking the full potential of regulatory T cells to combat atherosclerotic cardiovascular disease (Treat-ATHERO). (Joint funding with the Dutch Heart Foundation). *48 months*	£497,726.00

New Horizons Grant

Reference number	Name	Institution	Grant title	Total
NH/F/23/70013	**Dr W Bai**	Imperial College London	Population-level dynamic shape modelling of the whole heart. *36 months*	£238,984.40

Clinical Study Grants

Listed alphabetically by institution

Reference number	Name	Institution	Grant title	Total
CS/F/23/190056	**Prof J Powell**	Imperial College London	Women's Aneurysm Research: Repair Immediately Or Routine Surveillance (WARRIORS trial). *114 months*	£2,257,539.13
CS/F/23/190054	**Prof E Behr**	St George's, University of London	The Comparative Effectiveness of Contemporary Heart Failure Medical Management With vs. Without an ICD (CONTEMP-ICD) Study. *84 months*	£708,168.00
CS/F/23/190063	**Prof M Bown**	University of Leicester	The United Kingdom Metformin Aneurysm Trial (UKMAT). *60 months*	£1,290,726.29
CS/F/23/190055	**Prof G Murphy**	University of Leicester	Randomised comparison of the Outcomes of single vs Multiple Arterial grafts trial in Women (ROMA-Women). *80 months*	£311,191.58
CS/F/23/190055	**Prof L Bowman**	University of Oxford	Remote screening for subclinical atrial fibrillation in elderly individuals with cardiovascular risk factors using 14-day continuous non-invasive monitoring – the Active Monitoring for Atrial Fibrillation (AMALFI) trial. *48 months*	£272,023.47
CS/F/23/190067	**Prof R Bulbulia**	University of Oxford	10-year median follow-up of long-term stroke onset rates in ACST-2: the largest randomised trial of carotid surgery vs carotid stenting. *36 months*	£341,412.27

Translational Award

Reference number	Name	Institution	Grant title	Total
TA/F/23/210048	**Prof D Corrigan**	University of Strathclyde	Development of a low-cost and easy-to-use electrochemical detection platform for screening cardiac biomarkers at the point of need. *36 months*	£644,877.00

Project Grants

Listed alphabetically by institution

Reference number	Name	Institution	Grant title	Total
PG/23/11680	**Dr S Yarwood**	Heriot Watt University, Edinburgh	Role of EPAC1 in the modulation of vascular-immune interplay. *36 months*	£289,248.62
PG/23/11336	**Dr S Ben-Aicha**	Imperial College London	Deep immunophenotyping of pericardial macrophage in patients with coronary artery disease: the role of small extracellular vesicles. *24 months*	£282,487.13
PG/23/11235	**Mr C Bicknell**	Imperial College London	Sex-specific differences in cardiovascular risk factors, risk factor management, treatment compliance and major cardiovascular outcomes in the peripheral arterial disease population. *36 months*	£142,307.08
PG/23/11488	**Dr A Cowburn**	Imperial College London	Determine the role of HIF2α signalling in the systemic metabolic phenotype associated with the development of pulmonary hypertension. *36 months*	£339,571.82
PG/23/11369	**Prof C Emanueli**	Imperial College London	Exosomes-inspired lipidic nanoparticles for therapeutic angiogenesis in the ischaemic heart. *24 months*	£300,597.41
PG/23/11398	**Dr M Emerson**	Imperial College London	Platelet phenomic studies to explore elevated cardiovascular risk in people living with HIV. *36 months*	£310,303.58
PG/23/11350	**Dr M Spivakov**	Imperial College London	From genetic association to function: the role of coronary artery disease-associated genetic variants in the control of vascular smooth muscle cell plasticity. *36 months*	£286,186.00
PG/23/11464	**Prof C Terracciano**	Imperial College London	Examining the mechanisms behind cardiomyocyte integration in the heart. *36 months*	£347,217.01

Project Grants (continued)

PG/23/11466	**Prof P Weinberg**	Imperial College London	Investigation of a novel pathway linking blood flow with endothelial permeability to LDL. *24 months*	£217,342.30
PG/23/11638	**Prof P Weinberg**	Imperial College London	Testing the transverse wall shear stress hypothesis of atherogenesis in the human aorta – a pilot study *36 months*	£84,003.97
PG/23/11552	**Dr O Aslanidi**	King's College London	Computational decision support system for management of atrial fibrillation informed by biophysical modelling and artificial intelligence predictions. *12 months*	£253,445.83
PG/23/11612	**Dr A Brewer**	King's College London	Investigating the role of TET2 in the regulation of cholesterol homeostasis in endothelial cells. *36 months*	£182,931.11
PG/23/11427	**Dr J Burgoyne**	King's College London	Novel functions of LC3: a new mechanism for targeting proteins for degradation that is dysregulated during the development of heart failure. *36 months*	£313,163.06
PG/24/11731	**Dr J Burgoyne**	King's College London	Studying the role of XRCC4 oxidation in vascular ageing. *36 months*	£311,245.97
PG/24/11405	**Dr R Fukuda**	King's College London	Molecular mechanisms of cardiomyocyte dedifferentiation via TCF3. *36 months*	£298,209.48
PG/24/11598	**Prof G Mann**	King's College London	Importance of zinc in nitric oxide and NRF2-regulated redox signalling in human brain microvascular endothelial cells under physiological shear stress and oxygen levels. *36 months*	£323,853.06
PG/23/11421	**Dr Q Zhang**	King's College London	Disruption of perinuclear microtubule coupling drives cardiomyocyte dysfunction in response to LINC complex dysfunction. *36 months*	£299,702.04
PG/24/11770	**Dr A Zoccarato**	King's College London	Unravelling the therapeutic potential of phosphoglycerate mutase 2 (PGAM2) in the stressed heart. *36 months*	£294,044.74
PG/23/11456	**Prof D Middleton**	Lancaster University	A comprehensive study of dysfunctional HDL to identify markers for cardiovascular disease status and risk. *36 months*	£254,601.00
PG/23/11386	**Prof E Akowuah**	Newcastle University	Determining differences in left ventricular remodelling and residual mitral regurgitation in symptomatic patients with severe primary mitral regurgitation undergoing either surgical or percutaneous repair: a sub-study of the PRIMARY Trial. *36 months*	£264,684.00
PG/24/11584	**Prof J Dark**	Newcastle University	Role of human amniotic epithelial cell derived extracellular vesicles in reducing ischaemia-reperfusion injury in human donor hearts. *36 months*	£164,102.00

Project Grants (continued)

PG/24/11744	**Dr H Phillips**	Newcastle University	Can vitamin supplementation improve cardiac energy metabolism and function in a model of cardiomyopathy? *36 months*	£322,578.95
PG/23/11571	**Dr G Richardson**	Newcastle University	Characterising chemotherapy-induced cardiac cell senescence to ascertain its role in chemotherapy-induced heart failure. *36 months*	£279,661.00
PG/24/11769	**Prof T Iskratsch**	Queen Mary University of London	The role of novel mechanosensitive complex in cardiomyocyte pathophysiology. *36 months*	£285,532.48
PG/23/11371	**Prof Q Xiao**	Queen Mary University of London	A novel role for CD34+ cell-derived fibroblasts in abdominal aortic aneurysm. *36 months*	£346,749.31
PG/24/11618	**Prof E Behr**	St George's, University of London	The Rare Arrhythmia Syndrome Evaluation (RASE) 100,000 Genomes Project: enhanced phenotyping for greater insights. *36 months*	£349,809.20
PG/23/11425	**Prof M Duchen**	University College London	Role of microvascular dysfunction in mitochondrial disease: impact of mtDNA mutations on microvascular function as a cause of multisystem mitochondrial disease. *36 months*	£262,079.47
PG/24/11119	**Prof C Ruhrberg**	University College London	A VEGF-independent NRP1 mechanism for tissue vascularisation. *36 months*	£255,278.66
PG/23/11476	**Dr A Iqbal**	University of Birmingham	Galectin-9: a novel mediator of thrombo-inflammation in vascular inflammatory diseases. *36 months*	£272,537.21
PG/23/11579	**Prof M Madhani**	University of Birmingham	The role of persulfides and nitric oxide in ALDH2 polymorphism in ischaemic heart disease. *36 months*	£318,826.05
PG/23/11511	**Dr G Bigotti**	University of Bristol	Investigating the extracellular matrix protein agrin and its potential of inducing cardiac repair. *36 months*	£330,751.58
PG/24/11715	**Dr M Bond**	University of Bristol	NFYA: a novel, potentially druggable, mechanosensitive mechanism of cardiac fibrosis. *36 months*	£286,061.13
PG/23/11356	**Prof J Hancox**	University of Bristol	Determination of the cellular basis for cardiac repolarisation delay and arrhythmia risk with synthetic cannabinoids. *36 months*	£247,870.00
PG/23/11601	**Dr M Harper**	University of Cambridge	Selective inhibition of procoagulant platelets in occlusive thrombosis. *24 months*	£139,844.00
PG/24/11721	**Prof J Huntington**	University of Cambridge	Structure and function of the human prothrombinase complex. *36 months*	£313,953.00
PG/23/11344	**Prof T Krieg**	University of Cambridge	Succinate dehydrogenase inhibition as a neuroprotective approach in ischaemic stroke. *24 months*	£148,138.00

Project Grants (continued)

PG/23/11493	**Dr W Li**	University of Cambridge	Targeting BMPRII signalling complexes in pulmonary arterial hypertension. *30 months*	£236,570.00
PG/23/11632	**Dr W Li**	University of Cambridge	Therapeutic potential of BMP9 and BMP10 in an adult mouse model of HHT and mechanism of protection. *24 months*	£209,339.00
PG/23/11525	**Dr X Li**	University of Cambridge	The roles of tubulin carboxypeptidases in regulating cardiomyocyte contractility after myocardial infarction. *36 months*	£283,676.00
PG/23/11508	**Prof Z Mallat**	University of Cambridge	Low-dose interleukin (IL)-2 and IL-10 producing T and B cells in patients with coronary artery disease. *24 months*	£240,461.00
PG/23/11455	**Prof A Munsterberg**	University of East Anglia	Investigating novel cis-regulatory elements associated with genes involved in cardiovascular development and disease. *24 months*	£153,166.00
PG/24/11736	**Dr L Dowsett**	University of Glasgow	Investigating calcium-sensing receptor mediated sex differences in cardiometabolic disease. *36 months*	£298,209.55
PG/23/11366	**Prof C Gale**	University of Leeds	Data phenotyping, case identification and prediction of individuals at higher risk of heart failure with preserved ejection: national primary care records cohort study. *24 months*	£148,411.21
PG/23/11436	**Dr J Gierula**	University of Leeds	Physiology and medical technology meet personalised medicine: extending the indication for optimised heart rate management. *36 months*	£299,924.11
PG/23/11351	**Prof M Kearney**	University of Leeds	Novel role for endothelial cell insulin-like growth factor-1 receptor in regulating gastrointestinal microbiota to protect against obesity-induced metabolic dysfunction. *36 months*	£337,215.25
PG/23/11311	**Dr A MacCannell**	University of Leeds	Adipose tissue BACE1 as a therapeutic target for obesity and obesity-induced atherosclerosis. *36 months*	£249,680.51
PG/23/11577	**Dr A Singh**	University of Leicester	Improving risk stratification by developing targeted assays in asymptomatic aortic stenosis: a mixed agnostic and targeted proteomics study. *36 months*	£271,079.02
PG/23/11642	**Dr K Dibb**	University of Manchester	Targeting atrial microtubules in heart failure to improve function: understanding pathways and mechanisms. *36 months*	£303,157.51
PG/24/11687	**Prof M Tomaszewski**	University of Manchester	Leveraging information from multi-ancestry genome-wide association studies and kidney 'omics' to improve prevention and treatment of chronic kidney disease. *24 months*	£219,836.41

Project Grants (continued)

PG/23/11658	**Prof A Trafford**	University of Manchester	Understanding how carotid body glomus cell and mitochondrial function are altered in heart failure. *36 months*	£312,259.57
PG/23/11662	**Dr L Venetucci**	University of Manchester	Can we develop a specific treatment for hypokalaemia-induced arrhythmias? A preclinical study on the effects of carvedilol and its analogue on hypokalaemia-induced arrhythmias. *36 months*	£284,163.59
PG/23/11384	**Prof R Choudhury**	University of Oxford	Targeted evaluation of developmental factors that govern matrix remodelling in cardiac regeneration. *36 months*	£306,847.88
PG/23/11475	**Prof S De Val**	University of Oxford	Investigating the role of a key arteriovenous transcription factor. *36 months*	£324,929.95
PG/23/11585	**Prof S De Val**	University of Oxford	Regulatory pathways driving neovascular growth in the ischaemic heart. *36 months*	£321,568.59
PG/23/11496	**Prof K Dora**	University of Oxford	Mechanisms of human coronary microvascular reactivity in ischaemic heart disease. *36 months*	£318,715.60
PG/24/11701	**Prof G Douglas**	University of Oxford	Investigating the causal role of elevated phenylalanine in age-related vascular diseases. *36 months*	£317,961.05
PG/23/11479	**Dr M Lei**	University of Oxford	Targeting p21-activated kinases for developing new treatments in hypertrophic cardiomyopathy. *36 months*	£298,496.96
PG/23/11321	**Prof M Zaccolo**	University of Oxford	Sympathetic control of myofilament Ca^{2+} sensitivity: new players and potential for therapeutic intervention in the failing heart. *36 months*	£319,360.25
PG/23/11428	**Dr I Smyrnias**	University of Surrey	Understanding cellular adaptation to stress: how do the mitochondrial and integrated stress responses communicate to protect the stressed heart? *36 months*	£268,095.00

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