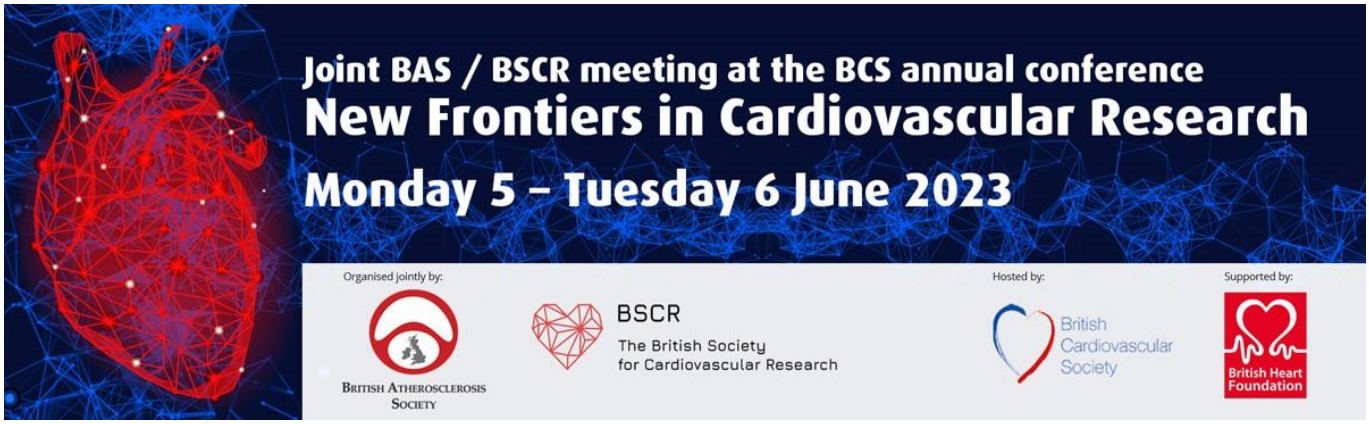

Joint Society Programme

Monday 5 June

10:00 – 11:30 **Basic & Translational Science session 1** **Multiomics approaches to understand the complexity of cardiovascular disease** Session co-chaired by: Prof Nicola Smart, University of Oxford & Dr Mairi Brittan, University of Edinburgh **Charter 2/3**			
10:00	10:15	**Spatial and temporal transcriptome profiling of human cardiogenesis in the first trimester**	**Dr Enikö Lázár** KTH Royal Institute of Technology / Science for Life Laboratory (Stockholm SWEDEN)
10:15	10:20	Discussion	
10:20	10:35	**Transcriptional control of endothelial cell differentiation in the developing human heart**	**Dr Ian McCracken** University of Oxford (UK)
10:35	10:40	Discussion	
10:40	10:55	**Single-cell and spatial transcriptomics state-of-Heart**	**Dr Michela Noseda** Imperial College London (UK)
10:55	11:00	Discussion	
11:00	11:15	**Proteomics to resolve the extracellular matrix of the cardiovascular system**	**Prof Manuel Mayr** King's College London (UK)
11:15	11:20	Discussion	

11:00	11:30	Break	Education Hall

11:30 – 12:30 **Spotlight on BHF Fellows** Session co-chaired by: Dr Sonya Babu-Narayan and Prof James Leiper, Associate Medical Directors, BHF **Charter 2/3**

11:30	11:40	**Neuropeptide-Y: a mechanistic biomarker and therapeutic target in acute myocardial infarction and chronic heart failure**	**Prof Neil Herring** University of Oxford (UK)
11:40	11:45	Discussion	
11:45	11:55	**Towards understanding the myosin-based control of the physiological cardiac cycle**	**Dr Elisabetta Brunello** King's College London (UK)
11:55	12:00	Discussion	
12:00	12:10	**The OpenEP Network for the Investigation of Atrial Fibrillation Clinical Outcomes**	**Dr Steven Williams** University of Edinburgh / King's College London (UK)
12:10	12:15	Discussion	
12:15	12:25	**Anti-oxidised low density lipoprotein antibodies for the in vivo molecular targeting of experimental atherosclerosis, and for the serological identification of high-risk atherosclerosis in patients**	**Dr Ramzi Khamis** Imperial College London (UK)
12:25	12:30	Discussion	

12:30	13:45	Lunch break	Education Hall

12:30 – 13:45 **Hot topic session** Session co-chaired by: Prof Carolyn Carr and Prof Nicola Smart, University of Oxford Hot Topics Zone 3, Education Hall			
12:30	12:40	**100 years strong: Myography's enduring significance in science**	**Dr Danila Gurgone** University of Glasgow (UK)
12:40	12:45	Discussion	
12:45	12:55	**Sex, drugs and arrhythmias: Elucidating the antiarrhythmic effect of the cGMP pathway**	**Dr Olivia Johnstone** University of Manchester (UK)
12:55	13:00	Discussion	
13:00	13:10	**A transient, cell-free modified mRNA cardiac regenerative therapeutic**	**Dr Catherine Wilson** University of Cambridge (UK)
13:10	13:15	Discussion	
13:15	13:25	**The Role of BACE1 in Angiogenesis**	**Miss Eva Maya Clavane** University of Leeds (UK)
13:25	13:30	Discussion	
13:30	13:40	**Role of mitochondria and oxidative stress in driving carotid body overactivation in heart failure**	**Dr Agnieszka Swiderska** University of Manchester (UK)
13:40	13:45	Discussion	

13:45 – 15:15

Basic & Translational Science session 2 **Connecting cardiovascular and brain pathophysiology** Session co-chaired by: Prof Sheila Francis, University of Sheffield, Prof Tomasz Guzik, University of Edinburgh & Prof Pasquale Mafia, University of Glasgow. **Charter 2/3**			
13:45	14:00	**Neuroimmune cardiovascular interfaces regulate atherosclerosis via adventitia-brain-circuits**	**Dr Sarajo Mohanta** Ludwig Maximilians University (Munich, GERMANY)
14:00	14:05	*Discussion*	
14:05	14:20	**Genetic analyses identify brain structures related to cognitive impairment associated with elevated blood pressure**	**Dr Mateusz Siedlinski** Jagiellonian University (Kraków, POLAND)
14:20	14:25	*Discussion*	
14:25	14:40	**Experimental neurovascular models to study the heart-brain axis**	**Dr Jason Berwick** University of Sheffield (UK)
14:40	14:45	*Discussion*	
14:45	15:00	**Control of the heart by the vagus nerve and exercise**	**Prof Alexander Gourine** University College London (UK)
15:00	15:05	Discussion	

15:15	16:00	Break	Education Hall

15:45 – 17:00 **BAS/BSCR Oral abstract session** **Best of the Best** Session chaired by: Dr Richard Cubbon, University of Leeds Judges: Dr Sophie Saxton, University of Manchester, Prof Pasquale Maffia, University of Glasgow **Education Hall**			
15:45	15:55	BS1 POLYCYSTIN-1 SUPPRESSES APOPTOTIC SIGNALLING IN ENDOTHELIAL CELLS AND PROTECTS FROM ATHEROSCLEROSIS	**Dr Serbanovic-Canic** University of Sheffield (UK)
15:55	16:00	Discussion	
16:00	16:10	BS2 FLOW-REGULATED EPAS1 LIMITS ATHEROSCLEROSIS VIA METABOLIC CONTROL OF ENDOTHELIAL PROLIFERATION	**Dr Siyu Tian** Queen Mary University London (UK)
16:10	16:15	Discussion	
16:15	16:25	BS3 PROTEOMICS OF HUMAN HEART FAILURE: EFFECTS OF MUTATIONS, MEDICATIONS AND COMORBIDITIES	**Dr Javier Barallobre Barreiro** King's College London (UK)

16:25	16:30	Discussion	
16:30	16:40	BS4 SERCA2A PROTEIN LEVELS ARE UNALTERED IN HUMAN HEART FAILURE	**Miss Isabella Ragone** King's College London (UK)
16:40	16:45	Discussion	
16:45	16:55	BS5 SENESCENT CARDIOMYOCYTES CONTRIBUTE TO CARDIAC DYSFUNCTION FOLLOWING MYOCARDIAL INFARCTION	**Dr Rachael Redgrave** Newcastle University (UK)
16:55	17:00	Discussion	

17:45 – 18:30 **Basic & Translational Science** **John French lecture** Session chaired by: Prof Charalambos Antoniades, University of Oxford **Charter 2/3**			
17:45	18:30	**Can the 'omics revolution transform our approach to cardiac repair and regeneration after MI?**	**Dr Mairi Brittan** University of Edinburgh (UK)

18:30	20:00	**BHF drinks reception and update** (open to all delegates)	Lobby outside Charter 2/3

BAS / BSCR Society dinner Dukes, 18-25 Castle Street, Manchester M3 4LZ		
19:30	20:00	Arrival and welcome drink
20:00	22:00	Dinner Presentation of the BAS/BSCR Best of the Best Oral abstract session

Tuesday 6 June

09:00 – 10:30 **Basic & Translational Science 3** **Mechanotransduction in the cardiovascular system** Session co-chaired by: Prof Sanjay Sinha and Dr Deeti Shetty, University of Cambridge **Charter 2/3**			
09:00	09:15	**Titin isoform mechanics and mechanosignalling in the heart**	**Prof Michael Gotthardt** Max Delbrück Center

			(Berlin,GERMANY)
09:15	09:20	Discussion	
09:20	09:35	**Mechanosensitive signalling in vessels**	**Prof Ellie Tzima** University of Oxford (UK)
09:35	09:40	Discussion	
09:40	09:55	**Vascular smooth muscle cell stiffness sensing: From the cell membrane to nuclear proteins**	**Dr Derek Warren** University of East Anglia (Norwich, UK)
09:55	10:00	Discussion	
10:00	10:15	**Cardiomyocyte mechanosensing downstream of cell-matrix contacts**	**Dr Thomas Iskratsch** Queen Mary University of London (UK)
10:15	10:20	Discussion	

10:30	11:30	Break	Education Hall

11:30 – 12:30
BHF Session
Innovations with data
Session co-chaired by: Prof Sir Nilesh Samani + Prof Cathie Sudlow
Charter 2/3

11:30	11:45	**Data driven innovation in CVD**	Prof Nick Mills (Edinburgh)
11:45	11:50	Discussion	
11:50	12:05	**Harnessing artificial intelligence in cardiovascular imaging**	Prof Steffen Petersen (QMUL BartsHeart)
12:05	12:10	Discussion	
12:10	12:25	**Exploiting large scale electronic healthcare data and enriched cohorts**	Prof Reecha Sofat (Liverpool)
12:25	12:30	Discussion	

12:30	14:00	Lunch break	Education Hall

12:30 – 14:00
BCS/BHF/BAS/BSCR Young Investigators Award Competition
Session co-chaired by: Prof Sir Nilesh Samani and Prof Andre Ng
Session judges: Prof Pier Lambiase, Prof Charalambos Antoniades, Prof Charlotte Manisty, Prof Mike Marber, Prof David Newby, Prof Sanjay Sinha
Charter 2/3

12:30	12:42	UNDERSTANDING THE ROLE OF CARDIAC FIBROSIS IN THE DEVELOPMENT AND TREATMENT OF HEART FAILURE USING MOLECULAR IMAGING PROBES AND NOVEL THERAPEUTICS	Dr Konstantina Amoiradaki King's College London (UK)
12:42	12:48	Discussion	

12:48	13:00	GENETICALLY-PROXIED LOW DENSITY LIPOPROTEIN CHOLESTEROL LOWERING VIA PCSK9-INHIBITOR DRUG TARGETS AND RISK OF CONGENITAL MALFORMATIONS	Dr Maddalena Ardissino Imperial College London (UK)
13:00	13:06	Discussion	
13:06	13:18	MYOCARDIAL STRESS PERFUSION AND ENERGETICS IMPROVES IN PATIENTS WITH TYPE 2 DIABETES AFTER TREATMENT WITH A GLUCAGON LIKE PEPTIDE-1 RECEPTOR AGONIST (LIRAGLUTIDE)- A RANDOMISED, SINGLE CENTRE, OPEN LABEL, CROSS-OVER DRUG TRIAL	Dr Amrit Chowdhary University of Leeds (UK)
13:18	13:24	Discussion	
13:24	13:36	INVESTIGATION OF THE EFFECTS OF DIETARY NITRATE ON VASCULAR FUNCTION, PLATELET REACTIVITY AND RESTENOSIS IN PATIENTS WITH STABLE ANGINA (NITRATE-OCT STUDY)	Dr Krishnaraj Rathod Queen Mary University of London (UK)
13:36	13:42	Discussion	
13:42	13:54	EXPLORING THE PROGNOSTIC SIGNIFICANCE AND IMPORTANT PHENOTYPIC AND GENOTYPIC ASSOCIATIONS OF NEURAL NETWORK-DERIVED ELECTROCARDIOGRAPHIC FEATURES	Dr Arunashis Sau Imperial College London (UK)
13:54	14:00	Discussion	

15:00	16:15	Break	Education Hall

14:00 – 16:30
Basic Science
Moderated Poster session

Poster judges:
BSCR: Iskratsch, Li, Watson, Aksentijevic
BAS: Meakin, Smart, Maffia, Tarkin, Derek Warren
Education Hall

16:00	16:15	Comfort break
16:15	16:30	Announcement of and presentation to poster prize winners

BS06
DEFINING THE MIRNOME OF VASCULAR SMOOTH MUSCLE CELLS FROM PATIENTS WITH TYPE 2 DIABETES
Miss Alisah Hussain - University of Bradford

BS07
COMPARING PHENOTYPIC CHARACTERISTICS OF PRIMARY HUMAN SMOOTH MUSCLE CELLS ISOLATED FROM DISTINCT MICROVASCULAR AND MACROVASCULAR BEDS
Miss Alisah Hussain - University of Bradford

BS08
HIGH SENSITIVITY C-REACTIVE PROTEIN AT BASELINE PREDICTS CARDIOVASCULAR OUTCOMES AT 20-YEAR FOLLOW-UP IN THE ASCOT LEGACY STUDY
Dr Adam Hartley - Imperial College London

BS09
ANTIBODIES AGAINST OXIDISED LOW-DENSITY LIPOPROTEIN AND VALVE CALCIFICATION IN THE SCOT-HEART TRIAL
Dr Adam Hartley - Imperial College London

BS10
BREAKING THE LIMITATIONS OF ONE-DIMENSIONAL ISOMETRIC ASSAYS: A NOVEL TECHNIQUE FOR GENERATING CARDIAC WORK-LOOPS ON ADULT CARDIOMYOCYTES TO ENHANCE OUR UNDERSTANDING OF HEART FAILURE AND MYOCARDIAL RECOVERY
Dr Patrick Tran - University Hospitals Coventry & Warwickshire

BS11
CHANGES IN MYOCYTE ARCHITECTURE, CONTRACTILE FUNCTION AND ENERGETICS IN PATIENTS WITH HEART FAILURE BEFORE AND AFTER VENTRICULAR ASSIST DEVICE IMPLANTATION AS A SIGN OF MYOCARDIAL RECOVERY: A SYSTEMATIC REVIEW AND META-ANALYSIS
Dr Patrick Tran - University Hospitals Coventry & Warwickshire

BS12
A NOVEL PHYSICS-BASED ARTIFICIAL INTELLIGENCE TECHNIQUE RAPIDLY RECONSTRUCTS THE 3D VELOCITY, SHEAR STRESS AND PRESSURE FIELDS IN CORONARY ARTERIES
Professor Rob Krams - Queen Mary University London

BS13 ULTRA-HIGHLY FLEXIBLE, ACCURATE, HIGH THROUGHPUT PLATFORM FOR PERSONALISED DRUG SCREENING STUDIES
Professor Rob Krams - Queen Mary University London

BS14
A FULLY AUTOMATED VULNERABLE PLAQUE CLASSIFIER FOR OCT USING CO-REGISTERED HISTOLOGICAL IMAGES AND TRANSFER LEARNING
Professor Rob Krams - Queen Mary University London

BS15
ULTRA-HIGHLY FLEXIBLE, ACCURATE, HIGH THROUGHPUT PLATFORM FOR KNOCK-IN STUDIES
Professor Rob Krams - Queen Mary University London

BS16
BLOOD VESSEL ORGANOIDS DERIVED FROM DIABETIC PATIENTS REVEALED IMPAIRED FUNCTION BASED ON A SUBPOPULATION OF ENDOTHELIAL CELLS
Dr. Hojjat Naderi-Meshkin - Queen's University Belfast

BS17
OXIDATION OF PROTEIN KINASE A REGULATORY SUBUNIT PKARIα ALPHA REGULATES VASODILATION AND BLOOD PRESSURE LOWERING
Dr Olena Rudyk - King's College London

BS18
LOSS OF FULL-LENGTH MYLK3 CAUSES DILATED CARDIOMYOPATHY VIA A MYL2-INDEPENDENT MECHANISM
Dr Jack Williams - Queen Mary University Of London

BS19
MICRO-RNAS AS BIOMARKERS FOR FIBROSIS IN ASYMPTOMATIC AORTIC STENOSIS
Mrs Jemima Osekafore Adewuyi - University of Leicester

BS20
MACROPHAGE-SPECIFIC DELETION OF NEUROPILIN-2 INHIBITS INFLAMMATORY SIGNALLING AND ATTENUATES ATHEROSCLEROTIC PLAQUE DEVELOPMENT IN APOE-DEFICIENT MICE
Dr Caroline Pellet-Many - Royal Veterinary College

BS21
METABOLIC HETEROGENEITY BETWEEN ENDOTHELIAL CELLS FROM DIFFERENT VASCULAR BEDS
Mr Corey McAleese - University of Glasgow

BS22
EVIDENCE FOR A NOVEL SMOOTH MUSCLE CELL TRANSDIFFERENTIATION PATHWAY THAT UNDERPINS FORMATION OF THE FIBROUS CAP IN ATHEROSCLEROSIS
Mr James Taylor - University of Cambridge

BS23
THE ADIPOCYTE CALCIUM-SENSING RECEPTOR IS IMPORTANT IS FEMALE VISCERAL AND PERIVASCULAR ADIPOSE FUNCTION
Dr Laura Dowsett - University of Glasgow

BS24
MICROTUBULE-ASSOCIATED PROTEIN 1S (MAP1S) REGULATES CARDIOMYOCYTE VIABILITY THROUGH MODULATION OF AUTOPHAGY AND APOPTOSIS
Mrs Pia Morales - FBMH, University of Manchester

BS25
ABERRANT MECHANO-TRANSDUCTION IN IPSC-DERIVED VASCULAR SMOOTH MUSCLE CELLS MODELLING AORTIC ANEURYSM IN MARFAN SYNDROME
Dr Deeti Shetty - Cambridge Stem Cell Institute

BS26
RESTORING DILATION IN HUMAN INTERNAL MAMMARY ARTERIES FROM HYPERTENSIVE CORONARY ARTERY BYPASS GRAFT PATIENTS, USING LIPOSOME-DELIVERED CYP1B1 INHIBITOR, TETRAMETHOXYSTILBENE
Dr Azziza Zaabalawi - Manchester Metropolitan University

BS27
PIM KINASE: A NOVEL REGULATOR OF THROMBOXANE A_2 RECEPTOR SIGNALLING AND PLATELET FUNCTION
Dr Sophie Nock - Manchester Metropolitan University

BS28
KETOHEXOKINASE INHIBITION PROTECTS AGAINST SUCROSE-INDUCED ENDOTHELIAL DYSFUNCTION AND INSULIN RESISTANCE
Dr Hema Viswambharan - LICAMM, University of Leeds

BS29
ENDOTHELIAL TWIST1 ENHANCES FEATURES OF ATHEROSCLEROTIC PLAQUE STABILITY
Dr Blanca Tardajos-Ayllon - Queen Mary University London

BS30
A SCAFFOLD FOR HEART REPAIR: USING HUMAN EMBRYONIC STEM CELL DERIVED (HESC) EPICARDIAL EXTRACELLULAR MATRIX TO ENHANCE HESC-CARDIOMYOCYTE FUNCTION
Dr Jonathan Lee - Wellcome MRC Cambridge Stem Cell Institute, University of Cambridge

BS31
THE SENESCENCE-ASSOCIATED SECRETORY PHENOTYPE AS A BIOMARKER FOR AGE-RELATED MYOCARDIAL REMODELLING AND CARDIOVASCULAR DISEASE
Miss Laura Booth - Translational and Clinical Research Institute, Newcastle University, Newcastle upon Tyne, UK

BS32
SNHG18 CONTROLS VASCULAR SMOOTH MUSCLE CELL PHENOTYPIC MODULATION AND NEOINTIMAL HYPERPLASIA
Mr Kaiyuan Niu - Queen Mary University of London

BS33
CANDESARTAN PREVENTS CISPLATIN-INDUCED VASCULAR TOXICITY BY ATTENUATING OXIDATIVE STRESS, INFLAMMATION, AND NECROPTOSIS AND UPREGULATING NRF2/HO-1 SIGNALING IN RAT AORTA
Dr Ayman Mahmoud - Manchester Metropolitan University

BS34
SD-208 REVERTS HYPERTROPHIC CARDIOMYOPATHY MYOFIBROBLASTS INTO FIBROBLASTS AND AFFECTS SMALL EXTRACELLULAR VESICLE SECRETION
Miss Georgie Thompson - University of Surrey

BS35
SINGLE-NUCLEUS SEQUENCING OF DOXORUBICIN-TREATED MOUSE HEARTS REVEALS DISEASE PROGRESSION OF CARDIOMYOCYTES
Ms Yue Qin - Imperial College London

BS36
THE ROLE OF BACE1 IN CEREBROVASCULAR DISEASE
Miss Hannah Taylor - University of Leeds

BS37
THE ROLE OF CTA RADIOTRANSCRIPTOMIC PHENOTYPING IN UNDERSTANDING THE VASCULAR EFFECTS OF LP(A) IN ADVANCED ATHEROSCLEROSIS
Dr Cheng Xie - University of Oxford

BS38
SIRT1: A NOVEL REGULATOR OF INTEGRIN $\alpha IIb\beta_3$ AND ACTIN CYTOSKELETON DYNAMICS IN PLATELETS

Miss Maria Blanco - Manchester Metropolitan University

BS39
TARGETING BACE1 TO IMPROVE ANGIOGENESIS IN TYPE 2 DIABETES
Miss Eva Clavane - University of Leeds

BS40
CHARACTERISING VARIATIONS IN THE COMPOSITION OF NATIVE EXTRACELLULAR MATRIX IN A MODEL OF ARTERIAL THROMBOSIS
Ms Amelia Drysdale - Manchester Metropolitan University

BS41
MONOCYTE RESPONSE AFTER ELECTIVE PERCUTANEOUS CORONARY INTERVENTION
Dr Ioannis Merinopoulos - University of East Anglia, Norfolk & Norwich University Hospital

BS42
UNDERSTANDING THE ADAPTIVE IMMUNE RESPONSE IN HEART FAILURE POST-MYOCARDIAL INFARCTION
Dr Adam Lokman - Institute of Developmental and Regenerative Medicine, University of Oxford

BS43
A NEW COLLAGEN III-SPECIFIC MRI IMAGING PROBE TO ASSESS CARDIAC FIBROSIS
Miss Nadia Chaher - Kings College London

BS44
UNDERSTANDING THE ROLE OF CARDIAC FIBROSIS IN THE DEVELOPMENT AND TREATMENT OF HEART FAILURE USING MOLECULAR IMAGING PROBES AND NOVEL THERAPEUTICS
Miss Konstantina Amoiradaki - King's College London

BS45
TRANSCRIPTION FACTORS MYC AND USF1 DRIVE CHRONIC MACROPHAGE DYSFUNCTION IN AGEING
Miss Charlotte Moss - University of Sheffield

BS46
CALCIUM SIGNALLING MODULATES VSMC RESPONSE TO MATRIX STIFFNESS IN AGEING AND DISEASE
Mr Finn Wostear - School of Pharmacy, University of East Anglia

BS47
A COMPARATIVE GENOMICS APPROACH REVEALS THE INTERPLAY BETWEEN EPIGENOMIC ENHANCER CONSERVATION AND COMMON GENETIC VARIATION IN THE HEART
Dr Stephanie Frost - Queen Mary University of London

BS48
INVESTIGATING THE EFFECT A TITIN TRUNCATING VARIANT HAS ON ATRIAL FIBRILLATION
Mr Max Cumberland - University of Birmingham

BS49
CARDIAC MESENCHYMAL STROMAL CELL SECRETOME PROTECTS HUMAN CARDIOMYOCYTES FROM IN VITRO ISCHAEMIA-REPERFUSION INJURY
Ms Zuzanna Jablonska - Imperial College London

BS50
EXTRACELLULAR VESICLES INITIATE HYDROXYAPATITE FORMATION WHICH PRECEDES VASCULAR SMOOTH MUSCLE CELL OSTEOGENIC DIFFERENTIATION
Dr Meredith Whitehead - King's College London

BS51
HDACS AND VASCULAR SMOOTH MUSCLE CELL RESPONSE TO MATRIX STIFFNESS
Miss Reesha Solanki - University of East Anglia

BS52
RNA BINDING PROTEIN MULTIPLE SPLICING (RBPMS) DRIVES A CONTRACTILE SPLICING NETWORK IN HUMAN EMBRYONIC STEM CELL DERIVED VASCULAR SMOOTH MUSCLE CELLS
Dr Aishwarya Jacob - University of Cambridge

BS53
THE PMCA4 CALCIUM TRANSPORTER AND ENDOTHELIAL INFLAMMATION
Dr Kinza Khan - The University of Wolverhampton

BS54
ELUCIDATING THE ULTRASTRUCTURE OF TRANSVERSE TUBULES AND THE SARCOPLASMIC RETICULUM IN HEALTHY AND HEART FAILURE SHEEP ATRIAL CELLS
Mr Loay Eleyan - University of Manchester

BS55
INHIBITION OF RHO KINASE2 IS ASSOCIATED WITH VASORELAXATION BUT NOT REDUCTION IN MYOCARDIAL CONTRACTILITY
Dr Lucie Pearce - University College London

BS56
AN EPIGENOMIC INVESTIGATION OF ATRIAL FIBRILLATION IN A PAIRED LEFT AND RIGHT ATRIAL COHORT
Mr Adrian Rodriguez - Queen Mary University of London

BS57
ASSESSING PROTEOGLYCANS AND PROTEOGLYCANASES AS BIOMARKERS FOR THORACIC AORTIC ANEURYSMS
Miss Marsioleda Kemberi - Barts and The London medical school

BS58
IDENTIFYING OLDER DONOR HEARTS SUITABLE FOR TRANSPLANTATION: THE USE OF SENESCENCE AS A MARKER OF BIOLOGICAL AGE
Dr Maria Camacho Encina - Bioscience Institute, Vascular Biology and Medicine Theme, Newcastle University, UK

BS59
MECHANISMS UNDERLYING ATRIAL DYSFUNCTION IN HEART FAILURE: ROLE OF THE MITOCHONDRIAL PERMEABILITY TRANSITION PORE
Dr Shiraz Khan - Manchester Foundation Trust (MFT)

BS60 CHARACTERISATION OF CHEMOKINE RECEPTORS IN CD_4+CD_{28}NULL T LYMPHOCYTES FROM PATIENTS WITH ACUTE CORONARY SYNDROME
Miss Danielle Lezama - University of Birmingham

BS61
PIM KINASE IS A NOVEL REGULATOR OF ENDOTHELIUM-DRIVEN THROMBOSIS
Miss Eima Karim - Manchester Metropolitan University

BS62
CARDIAC ORGANOIDS. A MODEL TO INVESTIGATE THE EFFECT OF DIABETES ON CARDIAC DEVELOPMENT AND FUNCTION
Dr Magdalini Eleftheriadou - Queen's University Belfast

BS63
CARDIOMYOCYTE-SPECIFIC DELETION OF PMCA1 EXACERBATES CARDIAC INFLAMMATORY RESPONSE
Mr Alex Chelu - University of Manchester

BS64
INHIBITION OF PHLPP PHOSPHATASES REDUCES VASCULAR SMOOTH MUSCLE CELL CALCIFICATION
Dr Samantha Borland - University of Manchester

BS65
PLASMA MEMBRANE CALCIUM ATPase 4 REGULATES PRO-INFLAMMATORY SIGNALLING IN THE PATHOPHYSIOLOGY OF PULMONARY ARTERY ENDOTHELIAL CELLS
Mr Ezra Leander David - University of Wolverhampton

BS66
LINEAGE-SPECIFIC PHENOTYPIC ABNORMALITIES IN IPSC-DERIVED SMOOTH MUSCLE CELLS FROM TYPE 1 LOEYS-DIETZ SYNDROME
Mr Franklin Lo - University of Cambridge

BS67
BCL-6B IS A NOVEL REGULATOR OF HIPSC-BASED VASCULAR CELL LINEAGE SPECIFICATION
Mr Chenxin Liu - Queen Mary University of London

BS68
RAPID QUANTIFICATION OF DIFFUSE CARDIAC FIBROSIS USING MICROCT IN MICE
Miss Emily Lupton - University College London

BS69

CHARACTERISATION OF IN VIVO AND IN VITRO MODELS FOR EPIGENOMIC INVESTIGATIONS OF CARDIAC HYPERTROPHY
Dr Diego Fernández-Aroca - Queen Mary University of London

BS70
DEVELOPMENT OF AN IN VITRO MODEL OF ISCHEMIC STROKE AND REPERFUSION INJURY
Dr Xenia Sawkulycz - Univeristy Birmingham

BS71
REVEALING A ROADMAP FOR REGENERATIVE EPICARDIUM BY COMPARING SINGLE-CELL RNA SEQUENCING OF ADULT AND FETAL HEARTS
Dr Vincent Knight-Schrijver - University of Cambridge

BS72
ACCURACY OF MACHINE LEARNING TECHNIQUES TO PREDICT STRESS ECHOCARDIOGRAPHY RESULTS USING CLINICAL VARIABLES
Dr Ugochukwu Ihekwaba - Milton Keynes University Hospital NHS Trust, Translational Cardiovascular Research Group

BS73
T CELL RESPONSES DRIVING INFLAMMATORY MECHANISMS IN PAEDIATRIC CONGENITAL HEART DISEASE GRAFT RJECTION
Dr Francesca Bartoli-Leonard - University of Bristol

BS74
ASSESSMENT OF FLUID STATUS IN PORCINE MODELS OF HEART FAILURE AND PULMONARY HYPERTENSION
Dr Hamza Zafar - University of Sheffield

BS75
INVESTIGATING THE THERAPEUTIC POTENTIAL OF RECOMBINANT BMP10 IN A MOUSE MODEL OF HEREDITARY HAEMORRHAGIC TELANGIECTASIA
Miss Karolina Kostrzynska - University of Cambridge

BS76
A PHYLOGENETIC MODELLING APPROACH TO IDENTIFY EVOLUTIONARY SHIFTS IN TISSUE-SPECIFIC ENHANCERS - APPLICATION TO THE MOLE-RAT CLADE
Dr Diego Villar - Queen Mary University of London

BS77
USING OVERSET MESHING AND BLENDED WEAK-STRONG COUPLING RESULTS IN ACCURATE AND EFFICIENT MODELS OF A POSITIVE-DISPLACEMENT ARTIFICIAL HEART
Mr Joseph Bornoff - University of Bath

BS78
BIOINFORMATICAL ANALYSIS OF PROMOTOR INTERACTING REGIONS RELATED TO CARDIOVASCULAR HEALTH AND DISEASE
Dr Sanjay Goorwappa - University of Manchester

BS79
INVESTIGATION OF THE CONTRIBUTION OF NON-CANONICAL INFLAMMASOME ACTIVATION TO LPS-INDUCED FOAM CELL FORMATION IN MACROPHAGES
Ms Kenechukwu Umerah - Anglia Ruskin University

BS80
MACROPHAGE ATP8B1 IS UPREGULATED WITH AGE
Ms Martha Clements - University of Sheffield

BS81
DESIGN OF THE BLOOD FLOW PATH FOR THE NEOVAD: AN IMPLANTABLE VENTRICULAR ASSIST DEVICE FOR INFANTS
Dr Katharine Fraser - University of Bath

BS82
PYROPTOSIS MAY NOT CONTRIBUTE TO ANTHRACYCLINE DOXORUBICIN AND ITS METABOLITE DOXORUBICINOL CYTOTOXICITY IN CORONARY ARTERY ENDOTHELIAL CELLS
Dr Handi Salim Hatter - Cardiovascular Institute, UCL

BS83
CHARACTERISING THE ROLE OF PLATELETS IN THE HOST IMMUNE RESPONSE TO INVASIVE FUNGAL INFECTIONS
Ms Amelia Drysdale - Manchester Metropolitan University

BS84
VESSEL-ON-A-CHIP FOR DRUG-INDUCED VASCULAR INJURY EVALUATION
Dr Bruno Rodino-Janeiro - BFlow

BS85
A CLINICIAN-LED UNDERSTANDING OF THE IMPLEMENTATION OF DIGITAL TECHNOLOGIES WITHIN HEART DISEASE DIAGNOSIS: A QUALITATIVE INVESTIGATION
Ms Kamilla Abdullayev - University of Sussex

BS86
ANALYSIS OF ENDOGENOUS CARDIOTONIC STEROIDS IN PLASMA OF CHRONIC KIDNEY DISEASE PATIENTS AND HEALTHY CONTROLS USING LIQUID CHROMATOGRAPHY -MASS SPECTROMETRY
Daniyah Alamrani – University of Birmingham

BS87
CHARACTERISATION OF 2D MONOLAYER CO-CULTURES USING INDUCED PLURIPOTENT STEM CELL DERIVED CARDIOMYOCYTE AND CARDIAC FIBROBLASTS
Ms Caitlin Hall – University of Birmingham

BCS reception

Presentation of the BCS/BHF/BAS/BSCR Young Investigators Award