



JOINT MEETING - BRISTOL HEART INSTITUTE & BHF ACCELERATOR AWARD

Date: Thursday 2 February 2023 | Venue: Engineers House, The Promenade, Clifton Down, Clifton, Bristol BS8 3NB

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| 9:00 | Arrival and coffee | |
| 9:30 | Welcome: updates on BHI and BHF Accelerator Award | Gianni Angelini Deborah Lawlor |
| 10:00 | Showcasing research (part 1) Metabolomics and clinical based prediction models for postoperative complications after cardiac surgery Hiding in plain sight? New cardiovascular disease genes from the 100,000 Genomes Project 3D statistical shape modelling in congenital heart disease NLRP3 inflammasome activation in peripheral arterial disease | Daniel Fudulu Andrew Mumford Froso Sophocleous Francesca Bartoli-Leonard |
| 11:00 | Coffee break and networking | |
| 11:30 | Showcasing research (part 2) There is more to life than stents – re-evaluating the ACS patient journey Hypertension to heart failure: The journey from mechanisms to treatments Diversity and equality in cardiovascular clinical research must be a top priority: how to design inclusive trials Trends in cardiac surgery activity from 1996-2019: A review using the national cardiac surgery audit database | Tom Johnson Angus Nightingale Maria Pufulete Jeremy Chan |
| 12:30 | Lunch | |
| 13:30 | Flash presentations: PhD students (part 1) 1 - Thromboxane A2 Analogue Reveals Crosstalk Between Platelet Activatory and Inhibitory Pathways 2 - Leveraging human genetic variation and zebrafish to identify drug targets for aortic valve stenosis 3 - Anti-inflammatory effects of PRH/HHEX in Endothelial Cells | Megan Allen Helena Urquijo Andri Christodoulou |

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| 4 - The role of extracellular matrix stiffness in the modulation of NF-κB activity | Sama Khalid |
| 5 - Alcohol Intake and Hypertensive Disorders of Pregnancy: A Negative Control Analysis in the ALSPAC Cohort | Flo Martin |
| 6 - Analysis of the ECM protein Agrin in the human heart | Ffion Jones |
| 7 - Genomic risk factors for cancer-associated thrombosis | Naomi Cornish |
| 8 - Reliability and face validity of glycoprotein acetals and high sensitivity C-reactive protein as markers of chronic inflammation | Daisy Crick |
| 9 - The Effect of Type 1 Diabetes Mellitus Upon the Glycocalyx In Pregnancy | Charley Heffer |
| 14:15 Coffee break and networking | |
| 14:45 Flash presentations: PhD students (part 2) | |
| 10 - Elucidating the Mechanisms Underlying Atherosclerotic Plaque Rupture and Subsequent Identification of Novel Biomarkers and Therapeutic Targets | Natasha Bryan |
| 11 - cAMP analogues protect against global ischaemic cardioplegic arrest | Joe Carr |
| 12 - Investigation of mechanisms of congenital heart disease during embryonic development using CRISPR-edited human stem cell derived cardiovascular progenitors | Tuva Wegnelius |
| 13 - SNA reactivity is associated with cardiac fibrosis in humans | Hazel Blythe |
| 14 - Periodontitis and atherosclerotic cardiovascular disease: what's the link? | Daire Shanahan |
| 15 - Pericyte Tissue Engineering for Prevention of Aortic Aneurysm Development and Rupture | Khaled Mohammed |
| 16 - Investigating the health & function of murine platelets generated using a new ex-vivo lung system | Nathalie Tarassova |
| 17 - Utilising targeted protein degradation to generate knockout human platelets to inhibit their function | Justin Trory |
| 18 - Regulation of TP thromboxane receptor expression and activity by selective P2Y12 receptor antagonists: consequences for dual antiplatelet therapy | Michael Keith |
| 15:30 Reflection on public engagement and projection of digital animation | Giovanni Biglino |
| 15:50 Comfort break | |
| 16:00 Plenary, awards and final remarks | Deborah Lawlor |
| Plenary talk by Prof Deborah Lawlor "Fertility, pregnancy and cardiovascular disease: Triangulating evidence to determine causal effects" | |