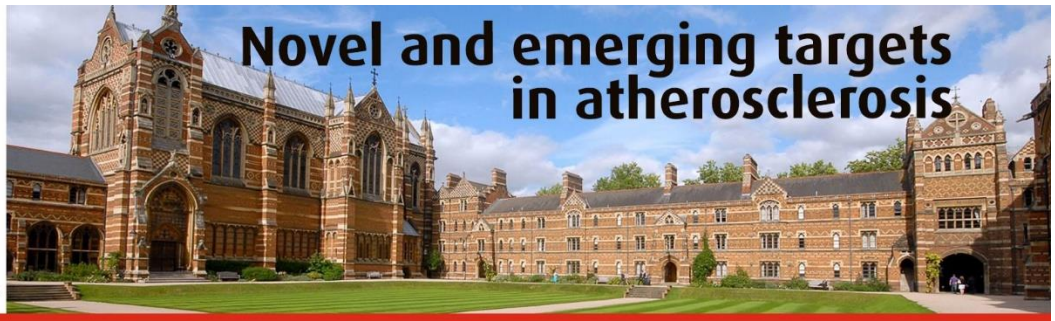

BRITISH ATHEROSCLEROSIS SOCIETY

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REGISTRATION OPEN **Thursday 8 - Friday 9 September 2022, Keble College, Oxford, UK**

Novel and emerging targets in atherosclerosis

Final Poster listing

(the organisers reserve the right to change the programme)

Organised by: ***Prof Charalambos Antoniades + Dr Richard Cubbon***

17:00 - 18:00	**Poster Session** (Thursday 8 September)	*Douglas Price Room*

P1

Remote acute assessment of patients with high cardiovascular risk post-acute coronary syndrome (TELE-ACS)

Nasser S Alshahrani*, Adam Hartley, Amit Kaura, Mihir Kelshiker, Reza Hajhosseiny, Saud Khawaja, Henry Seligman, Nicholas Peters, Ramzi Khamis

National Heart and Lung Institute, Imperial College London, UK

P2

Effect of Inflammatory Cytokines and T cell proliferation in Hypertension

Al-Sheikh EO[1,2]*, Nosalski, R[1]., Maffia, P[1]., Guzik TJ[1]

[1]Institute of Cardiovascular and Medical Sciences, University of Glasgow, UK.

[2]Institution of Health Science, University of umm Al-Qura, SA

P3

Dimethylarginine dimethylaminohydrolase 2 (DDAH2) as a possible therapeutic target for inflammation in atherosclerosis

N. Alshuwayer [1,2]*, L. Dowsett[1], B. Ahmetaj[3], F. Leiper[1], J. Leiper[1]

[1] Institute of Cardiovascular and Medical Sciences, College of Medical, Veterinary and Life Sciences, University of Glasgow, Glasgow, G128QQ, United Kingdom

[2] Department of Anatomy, College of Medicine, King Saud University, Riyadh 11451, Kingdom of Saudi Arabia

[3]Imperial College London, London, United Kingdom

P4

Synthetic proteins called Affimers as tools for evaluating LOX-1 status in patients with arterial disease

Ahmed Al Aufi[1,2]*, Barney W. R. Roper[2], Darren C. Tomlinson[2], Sreenivasan Ponnambalam[2], Shervanthi Homer-Vanniasinkam[1]

[1]Leeds Vascular Institute, Leeds General Infirmary, Great George Street, Leeds LS1 3EX, UK.[2]Endothelial Cell Biology Unit, School of Molecular and Cellular Biology, University of Leeds, Leeds LS2 9JT, UK

P5

Characterising the role of monocyte subsets in driving foam cell formation in cardiovascular disease

J. Begum*[1], M. Chimen[1], D. Lezama[1], A.J. Iqbal[1], G. Ed Rainger[1]

[1]Institute of Cardiovascular Sciences, College of Medical and Dental Sciences, University of Birmingham, UK

P6

Replication of newly discovered SNPs for coronary artery disease in Europeans in a Chinese adults.

Derrick Bennett, Ahmed Edris Mohamed, Kuang Lin, Sofia Massa, Iona Millwood, Robin Walters, Zhengming Chen, Robert Clarke, on behalf of the China Kadoorie Biobank

Clinical Trial Service Unit and Epidemiological Studies Unit, Nuffield Department of Population Health, Big Data Institute Building, Old Road Campus, Roosevelt Drive, Headington

P7

Human primary plaque cells cultures to study molecular mechanisms of sex-differences in atherosclerosis

Michele F. Buono[a]*, MSc; Ernest Diez Benavente[a], PhD; Mark Daniels[a], MSc; Daniek Kapteijn[a], BSc; Gerard Pasterkamp[b], MD PhD, Hester M. den Ruijter[a], PhD; Michal Mokry[a,b], MD PhD

[a] *Laboratory of Experimental Cardiology, University Medical Center Utrecht, The Netherlands.*

[b] *Central Diagnostics Laboratory, University Medical Center Utrecht, Utrecht, The Netherlands.*

P8

The multi-tyrosine kinase inhibitor Sunitinib has anti-inflammatory activity in a mouse model of hypercholesterolemia

Laura Chaffey*, Amelia Bowman, Annabell Roberti, Gareth S D Purvis, Conan O'Brien, David R Greaves

Sir William Dunn School of Pathology, University of Oxford, South Parks Road, Oxford, OX1 3RE

P9

T2 values should be used with caution to distinguish between acute and chronic myocardial infarction

Chin XW*, Barton AK[1], Dweck MR[1]

[1]*Centre for Cardiovascular Science, University of Edinburgh, Edinburgh EH16 4SB, UK*

P10

Reversing Atherosclerosis by the Specific Removal of Oxidized Cholesterol with Cyclodextrin Dimers

DM Clemens[1]*, AM Anderson[1], D Dinh[1], P Bhargava[1], K Sadrerafi[1], M Malanga[2], R Garcia-Fandiño[1,3,4], Á Piñeiro[1,3,5], MS O'Connor[1]

[1] *Cyclarity Therapeutics, Inc., 8001 Redwood Blvd, Novato, CA 94949, USA*

[2] *CarboHyde Co., Berlini str., 47-49 Budapest, 1045, Hungary*

[3] *MD.USE Innovative Solutions S.L., Edificio Emprendia, Campus Vida, 15782 Santiago de Compostela (A Coruña), Spain*

[4] *Centro Singular de Investigación en Química Biolóxica e, Materials Moleculares (CIQUS), Departamento de Química Orgánica, Universidade de Santiago de Compostela, 15782 Santiago de Compostela, Spain*

[5] *Departamento de Física Aplicada, Facultade de Física, Universidade de Santiago de Compostela, Spain*

P11

Key role of endothelial cell Jcad in voluntary exercise capacity

***SAV Draycott**[1,2], KE Shimell[1,2], E Drydale[2], J Mayer-Cowland[1,2], KM Channon[1,2] and G Douglas[1,2].

[1]*BHF Centre of Research Excellence, Division of Cardiovascular Medicine, Radcliffe Department of Medicine, John Radcliffe Hospital, University of Oxford, UK*

[2]*Wellcome Trust Centre for Human Genetics, University of Oxford, Roosevelt Drive, Oxford, UK*

P12

The Circular RNA circANRIL16-5 regulates Atherosclerosis through binding to Cell Cycle regulator TRA2B

A Elwazir*[1,2], L Castelli[3], P Patel[1], G Hautbergue[3], A Cox[4], S Francis[1]

[1] *Department of Infection, Immunity and Cardiovascular Disease, University of Sheffield, Sheffield, UK*

[2] *Department of Medical genetics, Faculty of Medicine, Suez Canal University, Ismailia, Egypt*

[3] *Sheffield Institute for Translational Neuroscience (SITraN), Department of Neuroscience, University of Sheffield, Sheffield, UK.*

[4] *Department of Oncology and Metabolism, University of Sheffield, Sheffield, UK.*

P13

Lipoproteins act as vehicles for lipid antigen delivery and iNKT cell activation

S.E. Engelen*, H.S. Schipper, C. Monaco.

Kennedy Institute of Rheumatology, Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Sciences, University of Oxford, Oxford, UK.

P14

Allergic inflammation induces endothelial dysfunction and oxidative stress through IL-4 dependent mechanisms

*Gurgone D.[1,2,3,4], Jasiewicz-Honkisz B.[2], Caiazzo E.[3,4], Konior-Rozlachowska A.[2], Szczepaniak P.[2], Nosalski R.[1,2], McShane L.[3], Osmenda G.[2], Wilk G.[2], Sliwa T.[2], McSharry C.[3], Kurowska-Stolarska M.[3], Mikolajczyk T.P.[2], Niccoli G.[5], D'Emmanuele di Villa Bianca R.[4], Sorrentino R.[4], Siedlinski M.[2], Crea F.[6], Grodzicki T.[7], Maffia P.[3,4], Guzik T.J.[1,2]

[1] *Institute of Cardiovascular and Medical Sciences, University of Glasgow, College of Medical, Veterinary and Life Sciences, Glasgow, UK;*

[2] *Department of Internal and Agricultural Medicine, Jagiellonian University Medical College, Krakow, Poland;*

[3] *Centre for Immunobiology, Institute of Infection, Immunity and Inflammation, College of Medical, Veterinary and Life Sciences, University of Glasgow, UK;*

[4] *Department of Pharmacy, University of Naples Federico II, Naples, Italy;*

[5] *Division of Cardiology, University of Parma, Parma, Italy;*

[6] *Department of Cardiovascular and Pulmonary Sciences, Catholic University of the Sacred Heart, Rome, Italy;*

[7] *Department of Internal Medicine and Gerontology, Jagiellonian University Medical College, Krakow, Poland.*

P15

***In vivo* targeting of oxidised-LDL with novel humanised Fab-nanoparticles**

Adam Hartley[1*], Michelle Greene[2], Mikhail Caga-Anan[1], Samuel Owen[1], Michael Mullin[3], Charis Pericleous[1], Chris Scott[2], Dorian Haskard[1], Ramzi Khamis[1]

1 – Vascular Sciences Section, National Heart and Lung Institute, Imperial College London, UK

2 – Patrick G Johnston Centre for Cancer Research, Queen's University, Belfast, UK

3 – Protein & Cell Sciences, GlaxoSmithKline, Stevenage, United Kingdom

P16

A novel experimental model of atherosclerosis – the ex vivo pump-perfused amputated limb model

Adam Hartley[1*], Samuel Owen[1], Mikhail Caga-Anan[1], Jonathan Afoke[1], Joseph Shalhoub[2], Kimberly Hassen[3], Dorian Haskard[1], Ramzi Khamis[1]

1 – National Heart and Lung Institute, Imperial College London, UK

2 – Vascular Surgery, Department of Surgery & Cancer, Imperial College London, London, UK

3 – Hammersmith Hospital, Imperial College Healthcare NHS Trust, London, UK

P17

Investigating the shear-dependent modulation of EC-VSMC communication in in coronary artery bypass vein graft failure

M Jackson*, Dr A Bond, Professor R Ascione Professor J Johnson and Professor SJ George

Translational Health Sciences, Bristol Medical School, University of Bristol, Level 7, Queen's Building, Bristol Royal Infirmary, BS2 8HW

P18

Independent associations of lipoprotein characteristics on risk of coronary heart disease: a study of 90,000 individuals

D Jin*, E Trichia, N Islam, J Besevic, S Lewington, B Lacey

Nuffield Department of Population Health (NDPH), University of Oxford

Big Data Institute, Old Road Campus, Oxford OX3 7LF, United Kingdom

P19

Cellular senescence promotes accumulation of vascular smooth muscle cells in de-differentiated / fibromyocytic phenotype

Anuradha Kaistha PhD*, Abel-Martin Garrido PhD, Sebnem Oc PhD, Kirsty Foote PhD, Helle Jorgensen PhD, Martin Bennett MD, PhD.

Section of Cardiorespiratory Medicine, University of Cambridge

P20

Macrophage subsets differentially regulate cardiac fibroblast activation – involvement of CXCL10

G. Kremastiotis*[1], Y. Li[2], A. W. Poole[2], R. Ascione[1], J. L. Johnson[1], S. J. George[1]
[1] Medical School, University of Bristol, Research Floor Level 7, Bristol Royal Infirmary, Bristol, UK, [2] School of Physiology, Pharmacology & Neuroscience, University of Bristol, Bristol, UK

P21
Role of Acute Arterial Haemodynamics on Endothelial-to-Mesenchymal Transition Activation in Long Saphenous Veins

Ladak S[1], McQueen L[1], JoelDavid L[2], Murphy G[1], Zakkar M[1]
[1] Department of Cardiovascular Sciences, University of Leicester, Glenfield Hospital, Leicester, UK
[2] NIHR Leicester Biomedical Research Centre (BRU2), cardiovascular theme, Glenfield Hospital, Leicester, UK

P22
Targeting the migration of $CD4^+CD28^{null}$ T lymphocytes in acute coronary syndrome

D.R. Lezama[1], J. Bullenkamp[2], A.A. Mansour[1], A.J. Iqbal[1], I.E. Dumitriu[1,2].
1. Institute of Cardiovascular Sciences, College of Medical and Dental Sciences, University of Birmingham
2. Molecular and Clinical Sciences Research Institute, St. George's, University of London

P23
BCL-6b is a novel regulator of HiPSC-based vascular cell lineage specification

C Liu* - *Centre for Clinical Pharmacology, William Harvey Research Institute, Queen Mary University of London, London*
W Wang - *School of Engineering and Material Science, Queen Mary University of London, London*
Q Xiao - *Centre for Clinical Pharmacology, William Harvey Research Institute, Queen Mary University of London, London*
Centre for Clinical Pharmacology, William Harvey Research Institute, Queen Mary University of London, Charterhouse Square, London, EC1M 6BQ

P24
Role of TCF7L2 in human adipose progenitor biology and genetic susceptibility to type 2 diabetes

Nellie Y Loh*[1], Manu Verma[1], Rugivan Sabaratnam[1], Senthil K Vasan[1], Andrea D van Dam[1], Marijana Todorčević[1], Matthew J Neville[1], Enrique Toledo[2], Fredrik Karpe[1], Constantinos Christodoulides[1]
1. Oxford Centre for Diabetes, Endocrinology and Metabolism, Radcliffe Department of Medicine, University of Oxford, Oxford OX3 7LE, UK
2. Department of Computational Biology, Novo Nordisk Research Centre Oxford, UK

P25
Deficiency in Inflammatory Chemokine Receptors Reduces Atherosclerosis and Promotes Plaque Stability

* **MacRitchie N.**[1], Shoaran M.[1], Gu S.[1], Gurgone D.[1], McShane L.[1], Bin Khunayn A.M.A.[1], Ardizzone A.[1,2], Esposito E.[2], Caiazzo E.[1,3], Ialenti A.[3], Giacca M.[4], Zentilin L.[5], Cole J.E.[6], Ahern D.J.[6], Monaco C.[6], Guzik T.J.[7,8], Graham G.J.[1], and Maffia P.[1,3]
[1]Institute of Infection, Immunity and Inflammation, College of Medical, Veterinary and Life Sciences, University of Glasgow, Glasgow G12 8TA, United Kingdom;
[2]Department of Chemical, Biological, Pharmaceutical and Environmental Sciences, University of Messina, Messina, Italy
[3]Department of Pharmacy, University of Naples Federico II, Naples, Italy
[4]School of Cardiovascular Medicine & Sciences, King's College London British Heart Foundation Centre, London, UK
[5]Molecular Medicine Laboratory, International Centre for Genetic Engineering and Biotechnology (ICGEB), Trieste, Italy
[6]Kennedy Institute of Rheumatology, Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Sciences, University of Oxford, Oxford OX3 7FY, UK;
[7]Institute of Cardiovascular and Medical Sciences, College of Medical, Veterinary and Life Sciences, University of Glasgow, Glasgow G12 8TA, United Kingdom;
[8]Department of Internal and Agricultural Medicine, Jagiellonian University College of Medicine, Kraków, Poland

P26

Invasive assessment of microcirculation in Acute Myocardial Infarction: a comparison of the prognostic value of Coronary Flow Reserve, Index of Microcirculatory Resistance and Microvascular Resistance Reserve from the Oxford Acute Myocardial Infarction (OXAMI) Study

Federico Marin, Jeremy Langrish, Andrew Lucking, Rajesh Kharbanda, Keith Channon, Adrian Banning, Giovanni Luigi De Maria, OxAMI Investigators
Oxford Heart Centre, Oxford, UK.

P27
Mechanical Forces pull the strings on EndMT and Atherosclerosis via an Alk5-Shc Pathway

V Mehta*, KL Pang, CS Givens, Z Chen, J Huang, DT Sweet, H Jo, JS Reader, E Tzima
VM, KLP, JSR, ET - Cardiovascular Medicine, Radcliffe Department of Medicine, University of Oxford, Oxford, UK; Wellcome Centre for Human Genetics, University of Oxford, Oxford, UK.
CSG, ZC, JH, DTS - McAllister Heart Institute, University of North Carolina at Chapel Hill, Chapel Hill, NC, USA.
HJ - Coulter Department of Biomedical Engineering, Emory University and Georgia Institute of Technology, Atlanta, GA, USA.

P28
SVEP1, a novel regulator of blood pressure

Morris GE *1, Denniff MJ1, Douglas G2, Kostogrys RB3, Rainbow RD4, Samani NJ1, Webb TR1
1. Department of Cardiovascular Sciences, University of Leicester and National Institute for Health Research Leicester Biomedical Research Centre, Glenfield Hospital, Leicester, LE3 9QP.
2. BHF Centre of Research Excellence, Division of Cardiovascular Medicine, Radcliffe Department of Medicine, John Radcliffe Hospital, University of Oxford, OX3 9DU.
3. Department of Human Nutrition, Faculty of Food Technology, University of Agriculture in Krakow, Poland (R.B.K.).
4. Department of Cardiovascular and Metabolic Medicine & Liverpool Centre for Cardiovascular Science, University of Liverpool, Liverpool, L69 3GE.

P29
IL10signalling in human vascular development: human vascular cell differentiation from induced-pluripotent stem cells

KY Niu[1*], SL Liu[1], CX Liu[1], QZ Xiao[1#]
[1]William Harvey Research Institute, Faculty of Medicine and Dentistry, Queen Mary University of London, London EC1M 6BQ, UK

P30
Immune system dysregulation and its impact on the cardiovascular system in post-COVID19 infection

R. Nosalski, M. Sharma, S. Sharma, L. Mccallum, R.M. Touyz, S. Padmanabhan, T.J.Guzik
Institute of Cardiovascular and Medical Sciences, BHF Glasgow Cardiovascular Research Centre, University of Glasgow, Glasgow, United Kingdom

P31
Marginal Zone B cells produce 'natural' atheroprotective IgM antibodies in a T cell dependent manner

James Harrison[1], Steve Newland[1], Wei Jiang[1], Xiaohui Zhao[1], Marc Clement[1,2], Leanne Masters[1], Andrej Corovic[1], Xian Zhang[3], Fabrizio Drago[4], Marcella Ma[5], Maria Ozsvar Kozma[6], Froher Yasin[1], Yuta Saady[1], Hema Kothari[4], Tian X Zhao[1], Guo-Ping Shi[3], Coleen A McNamara[4], Christoph Binder[6], Andrew P Sage[1], Jason M Tarkin[1], Ziad Mallat[1,7], **Meritxell Nus**[1*]
[1]Heart and Lung Research Institute (HLRI), Cardiovascular Division, Dept. of Medicine, University of Cambridge, United Kingdom
[2] Laboratory for Vascular Translational Sciences (LVTS) Université de Paris, INSERM U1148, Paris, France
[3] Department of Medicine, Brigham and Woman's Hospital, Harvard Medical School, Boston, MA, US
[4] Division of Cardiovascular Medicine, Department of Medicine, University of Virginia, Charlottesville, Virginia
[5] Wellcome-MRC Institute of Metabolic Science and Medical Research Council Metabolic Diseases Unit, University of Cambridge, United Kingdom
[6] Department of Laboratory Medicine, Medical University of Vienna, Vienna, Austria
[7]Universit'e de Paris, PARCC Inserm U970, Paris, France

P32
Adipose Tissue Derived Ceramides Regulate Myocardial Redox State and Predict Cardiovascular Outcomes

M. Polkinghorne*[1], N. Akawi[1,2], I. Badi[1], A. Checa[3], C. Kotanidis[1], I. Akoumianakis[1], A. Antonopoulos[1], G. Krasopoulos[4], R. Sayeed[4], N. Walcot[4], K. Channon[1], C. Wheelock[3], C. Antoniades[1]
[1] *Division of Cardiovascular Medicine, Radcliffe Department of Medicine, University of Oxford, Oxford, United Kingdom*
[2]*Department of Genetics and Genomics, College of Medicine and Health Sciences, United Arab Emirates University, Al-Ain, United Arab Emirates*
[3]*Division of Physiological Chemistry II, Department of Medical Biochemistry and Biophysics, Karolinska Institute, Stockholm, Sweden*
[4] *John Radcliffe Hospital, Oxford University Hospitals, Oxford, United Kingdom*

P33
Bruton's tyrosine kinase (BTK) regulates macrophage polarisation within the atherosclerotic lesion

GSD Purvis[1,2,3,*], S Hui[1], AJ Iqbal[4], G Douglas[2,3], L Zeboudj[1], D Ahern[5], C Monaco[5], KM Channon[2,3] and DR Greaves[1]
[1]*Sir William Dunn School of Pathology, University of Oxford, UK.*
[2]*Wellcome Trust Centre for Human Genetics, University of Oxford, Oxford, UK.*
[3]*Division of Cardiovascular Medicine, John Radcliffe Hospital, University of Oxford, Oxford, UK*
[4] *Institute of Cardiovascular Sciences (ICVS), University of Birmingham, Birmingham, UK.*
[5]*The Kennedy Institute of Rheumatology, University of Oxford, Oxford, UK.*

P34
Il-33 is an emerging target in hypertension and vascular dysfunction and remodelling.

Saju.B[1*], Nosalski. R[1], Crespo. E[1], Park.I[2], Monaco.C[2], Maffia.P[1], Guzik.T. J[1]
[1] *Institute of Cardiovascular and Medical Sciences, BHF Glasgow Cardiovascular Research Centre, University of Glasgow, Glasgow, United Kingdom (B.S., R.N., E.C., M.P, T.J.G.).*
[2] *Kennedy Institute of Rheumatology, Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Sciences, University of Oxford, United Kingdom (C.M., I.P.)*

P35
Establishing gel based 3d microenvironment to investigate macrophage migratory behaviour

Mustafa Sevim*[1,2], Jenefa Begum[1], Asif Jilani Iqbal[1], Ed Rainger[1]
[1]*Institute of Cardiovascular Sciences, College of Medical and Dental Sciences, University of Birmingham, UK*
[2]*Marmara University School of Medicine, Physiology Department, Istanbul, Türkiye*

P36
The downregulation of IGFBP-6 in people with periodontitis may exacerbate the risk of atherosclerosis

D. Shanahan[1], K. Wadey[1], N.X West[2], M. Davies[2], J. Seong[2], AH Nobbs, J.L Johnson[1], S.J George[1]
[1] *Department of Translational Health Sciences, Bristol Medical School, University of Bristol, BS2 8HW*
[2] *Bristol Dental School, University of Bristol, BS2 8HW*

P37
Generation of a conditional JCAD overexpressing mouse to investigate the association with coronary artery disease risk

SAV Draycott[1,2], ***KE Shimell**[1,2], B Davies[2], S Alghadban[2], K Channon[1,2] and G Douglas[1,2]
[1]*Division of Cardiovascular Medicine, Radcliffe Department of Medicine, Oxford University, UK.* [2]*Wellcome Centre for Human Genetics, University of Oxford, UK*

P38
Diagnosis and prognosis of ischaemic heart disease types in the China Kadoorie Biobank (CKB) study

I Turnbull[1*], R Clarke[1], N Wright[1], S Gilbert[1,2], Q Nie[1], L Wang[1], Z Chen[1], Y Chen[1,2], on behalf the China Kadoorie Biobank Collaborative Group

[1]Clinical Trial Service Unit and Epidemiological Studies Unit (CTSU), [2]Medical Research Council Population Health Research Unit (MRC PHRU), Nuffield Department of Population Health (NDPH), University of Oxford

P39
Novel independent relationship between inflammatory proteins and myocardial infarction

E. Valdes-Marquez[1]*, R. Clarke[1], M. Hill[1], H. Watkins[2,3], J. C. Hopewell[1] on behalf of the PROCARDIS Consortium
[1] Clinical Trial Service Unit and Epidemiological Studies Unit, Nuffield Department of Population Health, University of Oxford, Oxford, UK;
[2] The Welcome Centre for Human Genetics, University of Oxford, Oxford, UK;
[3] Radcliffe Department of Medicine, Division of Cardiovascular Medicine, University of Oxford, Oxford, UK.

P40
Auto Epicardial Adiposity Assessment For Atrial Fibrillation Risk In Severe Coronary Atherosclerosis

West, HW[1]*; Siddique, M[1]; Volpe, L[1]; Desai, R[2]; Polkinghorne, M[1]; Lyasheva, M[1]; Dangas, K[1]; Tomlins, P[3]; Mitchell, A[4]; Kardos, A[5]; Casadei, B[1]; Channon K[1]; Antoniades C[1]
1University of Oxford, Oxford, United Kingdom of Great Britain & Northern Ireland
2Northwestern University, Chicago, IL, USA
3Caristo Diagnostics Ltd, Oxford, UK
4Oxford University Hospitals NHS Foundation Trust, Oxford, UK
5 Translational Cardiovascular Research Group, Department of Cardiology, Milton Keynes University Hospital, UK

P41
A Nrf2-OSGIN1&2-HSP70 axis mediates cigarette smoke-induced endothelial detachment - implications for plaque erosion

S. Satta[1], R. Beal[1], R. Smith[1], X. Luo[2], G. Ferris[1], A. Langford-Smith[1], J. Teasdale[3], T. Tanjeko Ajime[4], J. Serré[4], G. Hazell[3], G. Sala Newby[3], J.L. Johnson[3], M.J. Humphries[5], G. Gayan-Ramirez[4], P. Libby[6], H. Degens[1], B. Yu[2], T. Johnson[7], Y. Alexander[1], H. Jia[2], A.C. Newby[3], S.J. White[1*]
[1] Department of Life Sciences, Manchester Metropolitan University, Manchester M1 5GD UK
[2] Department of Cardiology, The 2nd Affiliated Hospital of Harbin Medical University, & The Key Laboratory of Medical Ischemia, Chinese Ministry of Education Harbin 150086, China
[3] Bristol Medical School, University of Bristol, Bristol BS2 8HW, UK
[4] Laboratory of Respiratory Diseases and Thoracic Surgery, Department of Chronic Diseases and Metabolism, KU Leuven, Leuven, Belgium
[5] Wellcome Centre for Cell-Matrix Research, Faculty of Biology, Medicine & Health, University of Manchester, Manchester, M13 9PT, UK
[6] Brigham and Women's Hospital, Harvard Medical School, Boston, MA 02115 USA
[7] Department of Cardiology, Bristol Heart Institute, Upper Maudlin St. Bristol BS2 8HW

P42
Systolic blood pressure and risk of cardiovascular diseases: a Mendelian randomization study

N Wright[1*], R Clarke[1], R Walters[1,2], IY Millwood[1,2], S Lewington[1,2], DA Bennett[1,2], S Parish[1,2], Z Chen[1,2], on behalf of the China Kadoorie Biobank Consortium[‡]
[1] Clinical Trial Service Unit and Epidemiological Studies, Nuffield Department of Population Health, Oxford UK
[2] Medical Research Council, Population Health Research Unit, University of Oxford, UK

P43
Technical advances in imaging guided minimally invasive post-mortem CT angiography

C Xie*,[1,2] T MacKinnon,[3] Peter Cox,[3] S Thomas,[1,2] G Galuppi,[3] S Kuttappan,[3] D Freeman,[4] Z Traill,[3] E Fryer,[5] I Roberts,[5] C Antoniades[1,2]
1. Division of Cardiovascular Medicine, Radcliffe Department of Medicine, University of Oxford.
2. Acute Vascular Imaging Centre, Radcliffe Department of Medicine, University of Oxford, UK
3. Radiology department, John Radcliffe Hospital, Oxford University Hospitals NHS Trust, UK
4. Oxfordshire Coroner's Office, The Oxford Register Office, 1 Tidmarsh Lane, Oxford
5. Cellular Pathology department, John Radcliffe Hospital, Oxford University Hospitals NHS Trust.

P44
Variability in vascular inflammation in response to different COVID-19 variants

C Xie*1,2 C Kotanidis1,2 M Siddique1,2 S Thomas1,2 M Polkinghorne1,2, J Chauhan1,2 P Patel 1,2 S Lumley3 R Shaw3 M Andersson3, D Eyre3, K Channon1, C Antoniades1,2
1. Division of Cardiovascular Medicine, Radcliffe Department of Medicine, University of Oxford.
2. Acute Vascular Imaging Centre, Radcliffe Department of Medicine, University of Oxford, UK
3. Department of Infectious Diseases and Microbiology, Oxford University Hospitals NHS Foundation Trust, John Radcliffe Hospital, Oxford, UK

P45
Defective vascular smooth muscle cell tafazzin impairs mitochondrial function and promotes atherosclerosis

C Dong[1], A Finigan[1], N Figg[1], M P Murphy[2], M R Bennett[1], E P K Yu*[1]
[1]*Section of Cardiorespiratory Medicine, University of Cambridge, Heart Lung Research Institute Papworth Road, Cambridge, CB2 oBB, UK*
[2]*MRC Mitochondrial Biology Unit, Keith Peter Building, Cambridge, CB2 oXY*