



From the Vulnerable Plaque to the Vulnerable Patient

- FINAL PROGRAMME -

(the organisers reserve the right to change the programme)

Organised by: *Professor Charalambos ANTONIADES and Dr Andrew SAGE*

Accreditation: CPD to apply for

THURSDAY 6 SEPTEMBER:

08:00 - 09:00	Breakfast (<i>Queens residents only</i>)	<i>Cripps Dining Hall</i>
08:45 - 10:00	Registration	<i>Fitzpatrick Foyer</i>
08:45 - 10:00	Refreshments and Exhibition	<i>Conservatory</i>
10:00 - 10:10	Introduction and Welcome: <i>Professor Manuel MAYR, Chairman, BAS</i>	<i>Fitzpatrick Hall</i>
Session 1: STUDYING THE MOLECULAR BASIS OF VULNERABLE PLAQUE		
<i>Chairpersons: Claudia MONACO, Helle JORGENSEN</i>		
10:10 - 10:30	Macrophage transcriptomics in the study of unstable atherosclerotic plaque <i>Robin CHOUDHURY</i> (Oxford)	
10:30 - 10:40	Discussion	
10:40 - 11:00	Genome wide association studies: new lessons and new targets <i>Nilesh SAMANI</i> (Leicester)	
11:00 - 11:10	Discussion	
11:10 - 11:40	Refreshments and Exhibition	<i>Conservatory</i>
Session 1: STUDYING THE MOLECULAR BASIS OF VULNERABLE PLAQUE		
<i>Fitzpatrick Hall</i>		
<i>Chairpersons: Andrew SAGE, Robin CHOUDHURY</i>		
11:40 - 12:00	Global Epigenetics of Atherosclerotic Smooth Muscle cells <i>Helle JORGENSEN</i> (Cambridge)	
12:00 - 12:10	Discussion	
12:10 - 12:30	Matrix Metalloproteinase regulation of vulnerable plaques <i>Jason JOHNSON</i> (Bristol)	
12:30 - 12:40	Discussion	
12:40 - 13:30	Lunch	<i>Cripps Dining Hall</i>
Session 2: EARLY CAREER INVESTIGATOR AWARDS		
<i>Fitzpatrick Hall</i>		
<i>Chairpersons: Tomasz Guzik, Nilesh SAMANI</i>		
13:30 - 15:00	13:30 – 13:40 1	

SINGLE CELL CHARACTERISATION OF ABDOMIAL AORTIC ANEURYSMS BY MASS CYTOMETRY (CYTOF) REVEALS A CHRONIC INFLAMMATORY CELL INFILTRATE PREDOMINATED BY T AND B CELLS

[Ismail Cassimjee](#), Regent Lee, David Ahern, Patricia Green, Inhye Park, Ashok Handa, Claudia Monaco

- On behalf of the Oxford Abdominal Aortic Aneurysm study investigators

Nuffield Department of Surgical Sciences, University of Oxford, John Radcliffe Hospital, OX39DU

13:40 – 13:45

Discussion

13:45 – 13:55

2

LOSS OF AUTOPHAGY IN DENDRITIC CELLS PROMOTES CD4⁺ TREG EXPANSION AND LIMITS THE DEVELOPMENT OF ATHEROSCLEROSIS IN MICE.

[M. Clément](#), F. Lareyre, J. Raffort, S. Saveljeva, L. Masters, S. Newland, A. Finigan, J. Harrison, A. Kaser, Z. Mallat.

From the Division of Cardiovascular Medicine (M.C., J.R., F.L., L.M., S.N., A.F., J.H., Z.M.) and Division of Gastroenterology and Hepatology (S.S., A.K.), University of Cambridge, Cambridge, UK, and Institut National de la Santé et de la Recherche Médicale, Université Paris-Descartes, Paris Cardiovascular Research Center, and Université Paris-Descartes, Paris, France (Z.M.); Department of Vascular Surgery (F.L.) and Clinical Chemistry Laboratory (J.R.), University Hospital of Nice, and Université Côte d'Azur, Nice, France.

13:55 – 14:00

Discussion

14:00 – 14:10

3

MMP12 INHIBITION PROTECTS AGAINST ABDOMINAL AORTIC ANEURYSM PROGRESSION

[K. Di Gregoli*](#), S.J. George, V. Dive and J.L. Johnson

Laboratory of Cardiovascular Pathology, School of Clinical Sciences, Faculty of Health Sciences, University of Bristol, Bristol, UK

14:10 – 14:15

Discussion

14:15 – 14:25

4

UNDERSTANDING THE ROLE OF INTERFERON REGULATORY FACTOR 8 ON ATHEROSCLEROSIS PROGRESSION

[Louie R*](#), Gage M.C, Pineda-Torra I

Centre of Clinical Pharmacology and Therapeutics, Division of Medicine, Rayne Institute, University College London, 5 University Street, London, WC1E 6JF

14:25 – 14:30

Discussion

14:30 – 14:40

5

THYMOSIN β 4 MEDIATES VASCULAR PROTECTION VIA INTERACTION WITH LOW DENSITY LIPOPROTEIN RECEPTOR RELATED PROTEIN 1 (LRP1)

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14:40 – 14:45

Discussion

14:45 – 14:55

6

TROPOELASTIN: A NOVEL IMAGING BIOMARKER FOR PLAQUE PROGRESSION AND INSTABILITY

[A. Phinikaridou](#)^{1,2*}; S. Lacerda^{1,2,3*}; B. Lavin^{1,2}; M.E. Andia, MD^{1,4}; A. Smith⁵; P. Saha,⁵; R.M. Botnar^{1,2,6,7}

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⁷ Pontificia Universidad Católica de Chile, Escuela de Ingeniería, Santiago, Chile.

14:55 – 15:00

Discussion

15:00 – 15:30	Refreshments and Exhibition	<i>Conservatory</i>
	<i>Chairperson: Manuel MAYR</i>	
15:30 - 16:15	Hugh Sinclair LECTURE: Scientific Bases of Health: Imaging, Omics and Behavior VALENTIN FUSTER (Mount Sinai, New York)	
16:15 - 17:00	BAS AGM	<i>Fitzpatrick Hall</i>
17:00 – 17:30	Short break	
17:30 - 20:00	Drinks Reception and Poster Session	<i>Cripps Dining Hall</i>
	P-1 PERIVASCULAR ADIPOSE TISSUE-DERIVED WNT5A AS A REGULATOR OF HUMAN VASCULAR DISEASE PATHOGENESIS Ioannis Akoumianakis , Fabio Sanna, Marios Margaritis, Laura Herdman, Alexios S Antonopoulos, Rana Sayeed, George Krasopoulos, Mario Petrou, Keith M Channon, Charalambos Antoniadis Cardiovascular Medicine Division, Level 6 West Wing, John Radcliffe Hospital, Headley Way, Headington, Oxford OX3 9DU	

P-2

NOVEL ULTRASOUND IMAGING TECHNIQUES HELP CHARACTERIZE AND IDENTIFY THE VULNERABLE PLAQUE

[F Al-mutairi¹](#), [B Kanber¹](#), [J Garrard¹](#), [TC Hartshorne²](#), [TG Robinson¹](#), [E Chung¹](#) and [KV Ramnarine^{1,2}](#)

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2. Department of Medical Physics, University Hospitals of Leicester NHS Trust, Leicester, UK
3. Department of Vascular and Endovascular Surgery, University Hospitals of Leicester NHS Trust, Leicester, UK

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PROTEIN ATLAS OF THE HUMAN VASCULAR EXTRACELLULAR MATRIX

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- ² St George's University of London, NHS Trust, United Kingdom

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VALIDATION OF A NOVEL HUMAN EX-VIVO MODEL OF ANEURYSM TO SUPPLANT MOUSE MODELS

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MODULATION OF THE ACTIN CYTOSKELETON IN MACROPHAGE PHENOTYPES DIFFERENTIALLY AFFECTS THEIR BEHAVIOUR

[S. Boyajian](#), [SJ. George](#), and [JL. Johnson](#)

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VASCULAR INFLAMMATION AS REVEALED BY MULTIPLEXED-PROTEOMICS IN AN LPS-DRIVEN ENDOTOXEMIA MODEL

[SA Burnap^{*1}](#), [U Mayr¹](#), [A Joshi¹](#); [F Cuello²](#), [MR Thomas³](#), [I Sabroe⁴](#), [RF Storey⁴](#), [M Mayr¹](#).

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- ³ University of Birmingham, Birmingham, United Kingdom
- ⁴ Department of Infection, Immunity and Cardiovascular Disease, University of Sheffield, United Kingdom

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CONSEQUENCES OF TRIB3 DEFICIENCY ON EXPERIMENTAL ATHEROSCLEROSIS AND MACROPHAGE PHENOTYPE

[Martinez Campesino, L^{*†}](#); [Johnston, JM[†]](#); [Francis, SE](#); [Kiss-Toth E](#); [Wilson, HL](#).

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ELUCIDATING THE MECHANOSENSITIVE RNA INTERACTOME IN ENDOTHELIAL CELLS IN VIVO

[*KY Choo¹](#); [R Nikolopoulou²](#), [MB Patel¹](#), [F Savvopoulos^{1,2,3}](#), [M Barnes⁴](#), [R de Silva³](#), [R Krams¹](#)

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VASCULAR SMOOTH MUSCLE CELL PLASTICITY IN DISSECTING AORTIC ANEURYSMS

[M. Clément](#), [J. Chappell](#), [J. Raffort](#), [F. Lareyre](#), [M. Vandestienne](#), [A. L. Taylor](#), [A. Finigan](#), [J. Harrison](#), [M. R Bennett](#), [P. Bruneval](#), [S. Taleb](#), [H. F. Jørgensen](#), [Z. Mallat](#).

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UNCOVERING MYELOID CELL DIVERSITY IN ATHEROSCLEROSIS USING MASS CYTOMETRY

[Jennifer E Cole^{1*}](#), [Inhye Park¹](#), [David Ahern¹](#), [Lea Dib¹](#), [Christina Kassiteridi¹](#), [Dina Danso Abeam¹](#), [Michael Goddard¹](#), [Patricia Green¹](#), [Pasquale Maffia^{2,3,4}](#), [Claudia Monaco¹](#)

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LOSS OF KIAA1462, A CORONARY ARTERY DISEASE ASSOCIATED GENE, DECREASES ATHEROSCLEROSIS.

[Gillian Douglas](#), Theodosios Kyriakou, Victoria S. Rashbrook, Edward Drydale, Ayman Al Haj Zen, Lucy Trelfa, Vedanta Mehta, Ellie Tzima, Hugh Watkins and Keith M. Channon

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INCREASING ENDOTHELIAL INSULIN-LIKE GROWTH FACTOR-1 RECEPTOR EXPRESSION REDUCES CIRCULATING LEUKOCYTES AND PROTECTS AGAINST ATHEROSCLEROSIS

[M Drozd](#)^{*1}, NY Yuldasheva¹, A Maqbool¹, H Viswambharan¹, NT Watt¹, V Palin¹, S Galloway¹, A Skromna¹, N Makava¹, SB Wheatcroft¹, MT Kearney¹, RM Cubbon¹.

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CYCLIC-AMP DOWN REGULATES EPAC TRANSCRIPTION IN CARDIAC FIBROBLASTS VIA INHIBITION OF YAP-TEAD ACTIVITY. A NOVEL NEGATIVE FEEDBACK LOOP CONTROLLING CAMP SIGNALLING

[*Reza Ebrahimighaei](#), Andrew Newby and Mark Bond

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CELL SURFACE INTERLEUKIN-1 α , WHICH DRIVES THE SENESCENCE-ASSOCIATED SECRETORY PHENOTYPE (SASP), IS TETHERED VIA IL-1R2 OR GPI-ANCHORED

[J. N. E. Chan](#)^{*}, M. Humphry, K. A. Wiggins, L. C. Burzynski, M. C. Clarke

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CAROTID ATHEROMA INFLAMMATION IS ASSOCIATED WITH DISEASE SEVERITY IN BOTH ACUTE AND CHRONIC CEREBROVASCULAR DISEASE

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3. Department of Surgery, University of Cambridge, Cambridge, UK.

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DEVELOPING NEW TARGETED MOLECULAR CONTRAST AGENTS FOR IMAGING INFLAMMATION OF VULNERABLE PLAQUES

[R. J. Evans](#)^{1*}, J. Hernández-Gil¹, Z. Mohri², K. Y. Choo^{2,5}, B. Lavin-Plaza⁴, A. Phinikaridou⁴, J. E. Pease³, R. Krams⁵, R. Botnar⁴, N. J. Long¹

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EFFECTS OF GADD34, GROWTH ARREST AND DNA DAMAGE-INDUCIBLE PROTEIN 34, ON ATHEROSCLEROSIS AND POST-ISCHEMIC CARDIAC INJURY

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INCREASED EXPRESSION AND TRANSLOCATION OF KRUPPEL-LIKE FACTOR 4 AND SMOOTH MUSCLE ALPHA ACTIN AFTER BEING SUBMITTED TO ACUTE SHEAR STRESS IN AN EX-VIVO MODEL

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HISTONE H3 LYSINE 9 DIMETHYLATION REGULATES GENE EXPRESSION CHANGES ASSOCIATED WITH VASCULAR SMOOTH MUSCLE CELL PHENOTYPIC SWITCHING

[Jennifer Harman](#)^{1,2*}, Joel Chappell^{1,3}, Amanda Dalby¹, Martin R. Bennet¹, Helle F. Jørgensen^{1,2,3}

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ANTIBODIES PREDICT CARDIOVASCULAR OUTCOMES AND NECROTIC CORE IN NORDIL AND IBIS-3 SUB-STUDIES

VJ van den Berg^{a, c, d*}, DO Haskard^{b*}, A Fedorowski^{e,f}, [A Hartley](#)^b, I Kardys^g, MC Anan^b, KM Akkerhuis^g, RM Oemrawsingh^g, RJ van Geuns^g, P de Jaegere^g, N van Mieghem^g, E. Regar^g, JMR Ligthart^g, VAWM Umans^g, PW Serruys^g, O Melander^e, E Boersma^a, RY Khamis^b

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MICRORNA-214 IS A NOVEL PLAYER IN INFLAMMATORY SMOOTH MUSCLE CELL DIFFERENTIATION AND ANGIOPLASTY RESTENOSIS

[Shiping He](#)^{1,2}, [Qishan Chen](#)^{1,3}, [Feng Yang](#)^{1,3}, [Jiangyong Chen](#)¹, [Eithne Margaret Maguire](#)¹, [Mei Yang](#)^{1,3}, [Weiwei An](#)¹, [Li Zhang](#)³, [Wen Wang](#)² and [Qingzhong Xiao](#)¹

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MYELOID *TRIB1* PROMOTES EXPERIMENTAL ATHEROSCLEROSIS

[Johnston, JM](#)^{*†}; [Angyal, A](#)[†]; [Bauer, R](#)^{§††}; [Hamby, SE](#)[¶]; [Suvarna, SK](#)[†]; [Baidžajevs, K](#)[†]; [Hegedus, Z](#)[‡]; [Dear, NT](#)[‡]; [Turner, M](#)[¶]; *The Cardiogenics Consortium*; [Wilson, HL](#)[†]; [Goodall, AH](#)[¶]; [Rader, DJ](#)^{††}; [Shoulders, CC](#)[‡]; [Francis, SE](#)[†]; [Kiss-Toth, E](#)[†].

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TRIGLYCERIDE-CONTAINING LIPOPROTEIN SUB-FRACTIONS AND CORONARY HEART DISEASE AND STROKE RISK

[R. Joshi](#)^{*}, [G Wannamethee](#)^{*}, [D Rhodes](#), [J Engmann](#), [C Dale](#), [T Gaunt](#), [B Jefferis](#), [O Papacosta](#), [T Shah](#), [T Tillin](#), [A Wong](#), [N Chaturvedi](#), [M Kivimaki](#), [D, Kuh](#), [M Kumari](#), [A Hughes](#), [Y Ben-Shlomo](#), [J. P Casas](#), [A D Hingorani](#)[^], [A F Schmidt](#)[^];

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KNOCKOUT OF AUTOTAXIN IN ENDOTHELIAL CELLS REDUCES ATHEROSCLEROSIS IN HYPERLIPIDEMIC MICE

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HUMAN MACROPHAGE SUBSETS IN THE PATHOGENESIS OF CAROTID ATHEROSCLEROSIS

[K. Kocsy](#)^{1, 2 *}; [R. Alqurashi](#)^{1*}; [J. M. Johnston](#)¹; [A. Majid](#)²; [H. L. Wilson](#)¹; [E. Kiss-Toth](#)¹; [J. Redgrave](#)², [S. E. Francis](#)¹

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METABOLICALLY HEALTHY OBESE INDIVIDUALS PRESENT A DISTINCT EPICARDIAL FAT PHENOTYPE AND LOW MYOCARDIAL OXIDATIVE STRESS

[C. Kotanidis](#)^{1*}, [A. Antonopoulos](#)¹, [L. Herdman](#)¹, [S. Thomas](#)¹, [I. Akoumianakis](#)¹, [K. Thomas](#)¹, [E. Oikonomou](#)¹, [K Psarros](#)¹, [R Sayeed](#)², [C. Antoniades](#)¹

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FOCAL VASCULAR INJURY CAUSES SUSTAINED REMOTE ENDOTHELIAL DYSFUNCTION AND ATHEROSCLEROTIC PLAQUE PROGRESSION: AN IN VIVO MURINE MRI STUDY

[B. Lavin](#)^{1*}, [A. Phinikaridou](#)¹, [M.E. Andia](#)², [I. Rashid](#)¹, [M. Potter](#)¹, [R.M. Botnar](#)^{1,2}

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PRAVASTATIN AND MINOCYCLINE TREATMENT AFFECTS VESSEL WALL REMODELING IN A MURINE MODEL OF VASCULAR INJURY

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THE OMEGA 3 POLYUNSATURATED FATTY ACID, EICOSAPENTAENOIC ACID INHIBITS FOAM CELL FORMATION AND SECRETION OF PRO-INFLAMMATORY MEDIATORS

[Lezama DR*](#), Chimen M, Iqbal AJ and Rainger GE

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ERYTHROCYTE-DERIVED INTERLEUKIN-33 INSTRUCTS THE SPECIFICATION OF IRON-RECYCLING MACROPHAGES

[Lu Y](#), Scott IC, Clément M, Harrison JR, Newland SA, Yu X, Li X, McKenzie ANJ, Cohen ES, Mallat Z

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LOSS OF ADAMTS-5 ACCELERATES ATHEROSCLEROSIS IN APOE^{-/-} MICE

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ACCELERATED ATHEROSCLEROSIS AND MYOCARDIAL INJURY IN PEOPLE LIVING WITH HIV

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PRO- AND ANTI-INFLAMMATORY MACROPHAGES DISPLAY DIVERGENT POLARISATION TOWARDS VASCULAR SMOOTH MUSCLE-LIKE AND ENDOTHELIAL-LIKE PHENOTYPES.

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CYCLIC-AMP INDUCED NUCLEAR ACTIN DYNAMICS DIVERGENTLY REGULATES PROLIFERATION AND MIGRATION OF VSMCs AND ECs

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EARLY OVERNUTRITION IN RATS INDUCES ALTERATIONS IN THE CARDIOVASCULAR RESPONSE TO INSULIN IN ADULTHOOD

[Guerra-Menéndez L¹*](#), Tejera-Muñoz A², González-Hedström D^{2,3}, Amor S², Oltra B¹, Diéguez G¹, Paredes JA¹, Arriazu R¹, García-Villalón AL², Granado M²

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IL-1B IS PROCESSED BUT NOT SECRETED BY VASCULAR SMOOTH MUSCLE CELLS

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MIR-103 PROMOTES ENDOTHELIAL MALADAPTATION AND ATHEROSCLEROSIS BY TARGETING LNCWDR59

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NON CYTOKINE MEDIATED ACTIVATION OF ILC2 IMPACTS ATHEROSCLEROSIS PROGRESSION

[Newland SA](#), Hufnagel A, Lam BYH, Ma M, Yeo GSH, Ugolini S and Mallat Z.

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MIR-101-3P CONTROLS TRIB1 EXPRESSION IN HUMAN MACROPHAGES: A POTENTIAL TARGET IN ATHEROSCLEROTIC PLAQUES

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PERIVASCULAR FAT IMAGING FOR UNSTABLE PLAQUE DETECTION AND PREDICTION OF CORONARY PLAQUE PROGRESSION

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OXIDATION OF LDL BY FERRITIN IN LYSOSOMES INCREASES OXIDATIVE STRESS IN MACROPHAGES

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INVESTIGATING THE ROLE OF DENDRITIC CELL IMMUNORECEPTOR 1 (DCIR1) IN VASCULAR MACROPHAGES USING MASS CYTOMETRY

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DOES MILD CORONARY ARTERY ATHEROSCLEROSIS PROGRESS AT SERIAL ANGIOGRAPHY?

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QUANTITATIVE AND NONINVASIVE MRI of the ENDOTHELIAL PERMEABILITY AND FUNCTION IN CAROTID ATHEROSCLEROSIS

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ABSENCE OF INTERLEUKIN-1 RECEPTOR 2 LEADS TO STEADY-STATE IMMUNE DYSFUNCTION AND ACCELERATION OF ATHEROSCLEROSIS

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TGFβ NEUTRALIZATION FINELY TUNES MACROPHAGE PHENOTYPE IN ELASTASE INDUCED ABDOMINAL AORTIC ANEURYSM

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DIFFERENTIAL MICRO-RNA EXPRESSION IN DIABETIC PATIENTS WITH ABDOMINAL AORTIC ANEURYSM

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TGF β BLOCKADE INDUCES A HUMAN-LIKE DISEASE IN A NON-DISSECTING MOUSE MODEL OF ABDOMINAL AORTIC ANEURYSM

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EFFECTS OF PHARMACOLOGICAL INHIBITION OF SPHINGOSINE KINASE 1 ON CARDIOVASCULAR FUNCTION IN ANGIOTENSIN II-DEPENDENT HYPERTENSION IN VIVO

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IDENTIFICATION OF A NOVEL YAP:TEAD INTERACTION INHIBITOR THAT DIFFERENTIALLY REGULATES PROLIFERATION AND MIGRATION IN VSMCS AND ECS

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⁶⁸Ga-DOTATATE PET IDENTIFIES MYOCARDIAL INFLAMMATION AND BONE MARROW MONOCYTE MOBILISATION AFTER MYOCARDIAL INFARCTION

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VARIATION OF VON-WILLEBRAND FACTOR EXPRESSION IN THE ENDOTHELIUM OF HUMAN CORONARY ATHEROSCLEROTIC PLAQUES: IMPLICATIONS FOR THROMBOSIS

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SINGLE CELL PROFILING REVEALS SCA1-POSITIVE VASCULAR SMOOTH MUSCLE CELLS IN HEALTHY AND DISEASED VESSELS

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#Equal contribution from both authors.

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LOCALISED CORONARY ARTERY INFLAMMATORY BIOMARKER EXPRESSION DOES NOT CORRELATE WITH SYSTEMIC ELEVATION OF BIOMARKERS OR hsCRP

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NRF2-MEDIATED UPREGULATION OF OSGIN1 AND OSGIN2 TRIGGERS CELL DETACHMENT THROUGH DYSREGULATED AUTOPHAGY – A POTENTIAL MECHANISM FOR ENDOTHELIAL EROSION OVERLYING STENOTIC PLAQUES

Sandro Satta¹, Michael Mcelroy², Georgina Hazell³, Jack Teasdale³, Graciela Sala-Newby³, Jason Johnson³, Frank Gijssen⁴, Tom Johnson³, Yvonne Alexander¹, Amir Kesmiri², Andrew Newby³ & Stephen White¹

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TISSUE RESIDENT ILC2 ARE ACTIVATED FOLLOWING ISCHEMIA AND REGULATE HEART FUNCTION AFTER ACUTE MYOCARDIAL INFARCTION

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FLUID-STRUCTURE INTERACTION MODELLING FOR ANALYSING ADVANCED CORONARY ATHEROSCLEROTIC PLAQUE FORMATION IN TRANSGENIC HYPERLIPIDAEMIC MINIPIGS

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GLYCOPROTEOMIC ANALYSIS OF THE AORTIC EXTRACELLULAR MATRIX IN PATIENTS WITH MARFAN SYNDROME

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20:00	Conference dinner and young investigator prize giving	Old Hall
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FRIDAY 7 SEPTEMBER:

07:00 - 08:30	Breakfast (<i>Queens residents only</i>)	Cripps Dining Hall
07:30 - 08:30	BAS Committee meeting	Angevin Room
08:30 - 09:00	Registration	Fitzpatrick Foyer
08:30 - 09:00	Refreshments and Exhibition	Conservatory

Session 3: IDENTIFYING AND IMAGING VULNERABLE PLAQUES Fitzpatrick Hall

Session sponsored by: **Cardiovascular Research**

<i>Chairpersons: Charalambos ANTONIADES, Ziad MALLAT</i>	
09:00 - 09:20	Discovering new biomarkers to detect the vulnerable plaque Keith CHANNON (Oxford)
09:20 - 09:30	Discussion
09:30 - 09:50	The immune system as a target for high definition imaging of atherosclerosis Zahi A. FAYAD (New York)
09:50 - 10:00	Discussion
10:00 - 10:20	Detecting unstable plaques in humans David NEWBY (Edinburgh)
10:20 - 10:30	Discussion

10:30 - 11:00	Refreshments and Exhibition	Conservatory
Session 4: TREATING VULNERABLE PATIENTS		Fitzpatrick Hall
	<i>Chairpersons: Jason JOHNSON, Keith CHANNON</i>	
11:00 - 11:30	Targeting PCSK-9: Implications for basic science and upcoming challenges <i>Kausik RAY</i> (London)	
11:30 - 11:40	Discussion	
11:40 - 12:10	Current approaches to target cardiovascular inflammation <i>Ziad MALLAT</i> (Cambridge)	
12:10 - 12:20	Discussion	
12:20 - 12:50	Futile targeting of HDL-cholesterol: More to be learnt on structure, functions, and metabolism of HDL <i>Arnold VON ECKARDSTEIN</i> (Zurich)	
12:50 - 13:00	Discussion	
13:00 - 13:10	Concluding remarks	
13:10 - 13:45	Olink sponsored lunch	Conservatory
13:45 - 15:15	Olink Biomarker Symposium  13:45 Introduction <i>Manuel MAYR</i> (London) 13:45 – 14:20 Screening for new biomarkers in patients with CAD <i>Lars WALLENTIN</i> (Uppsala) 14:20 – 14:35 Q&A 14:35 – 14:50 Olink: Protein Biomarker discovery and development <i>Xavier TAIT</i> (Uppsala) 14:50 – 15:00 Q&A 15:00 – 15:15 Discussion	
15:15	Meeting close and departure	