



JOINT SPRING MEETING 2009

Medical Sciences Teaching Centre and St Catherine's College • Oxford, UK
Thursday 2 – Friday 3 April 2009

FINAL PROGRAMME UPDATE

"ATHEROSCLEROTIC PLAQUE RUPTURE"

Organised by: Martin Bennett, Chris Jackson and Chris Newman

CPD Approved – 8 credits

THURSDAY 2 APRIL:

09:00-09:50 Registration - *Medical Sciences Teaching Centre*

09:50 Introduction and Welcome: *Chris Newman*

PATHOLOGY OF ATHEROSCLEROTIC PLAQUE RUPTURE

WHY ARE ONLY SOME PLAQUE RUPTURES LETHAL?

Chairperson: Mark Kearney

10:00-10:20 **WHAT IS A VULNERABLE PLAQUE?**
Hector Garcia
Erasmus Medical Centre, Rotterdam, THE NETHERLANDS

10:20-10:30 Discussion

10:30-10:50 **HOW REPRESENTATIVE ARE RUPTURED "CULPRIT" PLAQUES?**
Allard van der Wal
Academic Medical Center, Amsterdam, THE NETHERLANDS

10:50-11:00 Discussion

DO WE HAVE AN ANIMAL MODEL OF PLAQUE RUPTURE?

Chairperson: Cathy Holt

11:00-11:20 **SPONTANEOUS PLAQUE RUPTURE IN MICE: REAL OR IMAGINARY?**
Florian Bea
Universität Heidelberg, GERMANY

11:20-11:30 Discussion

11:30-11:50 **LEUKOCYTE DYNAMICS IN THE ADVANCED PLAQUE:
WHAT CAN WE LEARN FROM MOUSE STUDIES**
Erik Biessen
University of Maastricht, THE NETHERLANDS

11:50-12:00 Discussion

12:00-13:15 Lunch - *Medical Sciences Teaching Centre*

INSIDE THE UNSTABLE ATHEROSCLEROTIC PLAQUE

Chairperson: Peter Weinberg

13:15-13:35 **INFLAMMATION AND INSTABILITY: WHICH IS CHICKEN AND WHICH IS EGG?**
Rob Krams
Imperial College London, UK

13:35-13:45 Discussion

13:45-14:05 **CELL DEATH AND CELL SENESCENCE: ROOT CAUSES OR COLLATERAL DAMAGE?**
Isabelle Gorenne
University of Cambridge, UK

14:05-14:15 Discussion

14:15-14:35 **PLAQUE REPAIR: MORE IMPORTANT THAN PLAQUE RUPTURE?**
Allen Burke
CVPath Institute, Maryland, USA

14:35-14:45 Discussion

14:45-15:15 Tea

Chairperson: Sarah George

15:15-16:15 **YOUNG INVESTIGATORS: BAS (MICHAEL DAVIES) AND BSCR AWARDS**
The BAS gratefully acknowledges that the Michael Davies Award is made possible by a grant from the British Heart Foundation

Judging Panel: Yvonne Alexander, Barbara Casadei, Derek Hausenloy, Manuel Mayr

15:15-15:25 (a)
GLOBAL HETEROZYGOUS KNOCKOUT OF THE INSULIN-LIKE GROWTH FACTOR 1 RECEPTOR IN MICE RESULTS IN ENHANCED METABOLIC AND VASCULAR INSULIN SENSITIVITY AND INCREASED ENDOTHELIAL NITRIC OXIDE PRODUCTION
**A Abbas, H Imrie, H Viswambharan, A Rajwani, RM Cubbon, MB Kahn, SB Wheatcroft, PJ Grant, MT Kearney*
Leeds Institute of Genetics, Health and Therapeutics, Clarendon Way, The University of Leeds, Leeds, UK

15:25-15:30 Discussion

15:30-15:40 (b)
INACTIVATION OF EPHB2 GENE PROMOTES PATHOGENESIS OF SACCCULAR ANEURYSMS IN APOE KNOCKOUT MICE
*A Al Haj Zen*1, P. Madeddu1, R. Adams 2,3 1.*
Experimental Cardiovascular Medicine, Bristol Heart Institute, University of Bristol, Bristol 2. Vascular Development Lab, London Research Institute, Cancer Research UK, London 3. Max-Planck-Institute for Molecular Biomedicine, Münster, Germany

15:40-15:45 Discussion

15:45-15:55 (c)
ENDOTHELIAL SHIP2 PLAYS A CRITICAL ROLE IN GLUCOSE REGULATION AND INSULIN SENSITIVITY
M Gage(1), S Wheatcroft(1), A Abbas(1), R Cubbon(1), J Surr(1), S Schurmans(2), M Jacoby (2), E Dubois(2), M Kearney(1).*
(1)Division of Cardiovascular & Diabetes Research, LIGHT Laboratories, University of Leeds, UK. (2)Institut de Recherche Interdisciplinaire (IRIBHM), Université Libre de Bruxelles, Belgium.

15:55-16:00 Discussion

16:00-16:10 (d)
INSULIN RESISTANCE REDUCES CIRCULATING ENDOTHELIAL PROGENITOR CELLS AND IMPAIRS ENDOTHELIAL REPAIR FOLLOWING VASCULAR INJURY
**M Kahn, R Cubbon, A Abbas, H Viswambharan, N Yuldasheva, A Rajwani, M Gage, H Imrie, M Kearney, S Wheatcroft*
Division of Diabetes & Cardiovascular Disease Research, Leeds Institute of Genetics, Health & Therapeutics, LIGHT Laboratories, Clarendon Way, University of Leeds, UK

16:10-16:15 Discussion

Chairperson: Dorian Haskard

16:15-17:15 **BRITISH ATHEROSCLEROSIS SOCIETY JOHN FRENCH LECTURE**
MOLECULAR, CELLULAR AND FUNCTIONAL IMAGING IN ATHEROSCLEROSIS AND THROMBOSIS
Robin Choudhury
John Radcliffe Hospital, Oxford, UK

17:15-18:00 BAS AGM - *Medical Sciences Teaching Centre*

- (1) URINARY 11-DEHYDRO-THROMBOXANE B2 AS A MARKER OF THE ANTI-PLATELET EFFECTS OF CLOPIDOGREL OR ASPIRIN THERAPY IN HEALTHY MALE VOLUNTEERS.
PCJ Armstrong*1, AA Dhanji1, AT Tucker1, JA Mitchell2, TD Warner1
1Barts & the London School of Medicine and Dentistry, Queen Mary University of London; 2National Heart and Lung Institute, Imperial College London, UK
- (2) MELAGATRAN PREVENTS PLAQUE RUPTURE IN APOLIPOPROTEIN E KNOCKOUT MICE THROUGH A NON-THROMBIN-RELATED MECHANISM
U Benbow*1, R Fritsche-Danielson2, S Karanam3; CL Jackson1
1Bristol Heart Institute, University of Bristol; 2AstraZeneca R&D, Möndal, Sweden; 3Warwick Medical School, University of Warwick, UK
- (3) MATRIX-BOUND AGGREGATED IGM DRIVES MACROPHAGE CYTOTOXICITY VIA MACROPHAGE SCAVENGER RECEPTOR A AND IS INCREASED IN RUPTURED PLAQUES
JJ Boyle*, VWY Leung, H Rizvi, PC Evans, DO Haskard
BHF Cardiovascular Sciences, NHLI, Hammersmith Hospital, London, UK
- (4) MONOCYTE DIFFERENTIATION TO AN ATHEROPROTECTIVE PHENOTYPE EXPRESSING HEME OXYGENASE-1 PIVOTALLY REQUIRES A HEME-INDUCIBLE TRANS-ACTIVATING FACTOR AND IS COUNTERACTED BY THE NUCLEAR RECEPTOR REVERB
JJ Boyle*, M Johns, JC Mason, DO Haskard
BHF Cardiovascular Sciences, NHLI, Hammersmith Hospital, London, UK
- (5) MRI OF ENDOTHELIAL ADHESION MOLECULES IN CAROTID ATHEROSCLEROSIS USING TARGETED ULTRASMALL SUPERPARAMAGNETIC PARTICLES OF IRON OXIDE (USPIO)
J Chan* 1, K Bhakoo 2, C Monaco3, RGJ Gibbs 1
(1)Vascular surgery unit, St Mary's Hospital, Imperial College London, UK; (2) Stem Cell Imaging Group, Imperial College, Hammersmith Campus, London, UK; (3) Kennedy Institute of Rheumatology, Imperial College, Charing Cross Campus, London, UK
- (6) ENDOTHELIAL CELLS AT ATHEROSUSCEPTIBLE SITES EXPRESS ACTIVATED C-JUN N-TERMINAL KINASE (JNK) WHICH INDUCES PRO-APOPTOTIC MOLECULES
HA Chaudhury*(1), M Zakkar(1), J Boyle(1), J Dennis(2), K Van der Heiden(1), L Luong(1), S Cuhlmann(1), JM Mason(1), R Krams(3), DO Haskard(1), PC Evans(1)
(1)BHF Cardiovascular Sciences Unit, National Heart and Lung Institute, (2)MRC Microarray Centre, and (3)Department of Bioengineering, Imperial College London, UK
- (7) IMPAIRED EXERCISE INDUCED ENDOTHELIAL PROGENITOR CELL MOBILISATION IN SOUTH ASIAN MEN IS NITRIC OXIDE DEPENDENT
RM Cubbon*, SR Murgatroyd, C Ferguson, D Canon, S Bowen, A Rajwani, A Abbas, M Kahn, KE Porter, SB Wheatcroft, HB Rossiter, MT Kearney
The University of Leeds, Leeds, UK
- (8) HIGH SHEAR STRESS SUPPRESSES THE EXPRESSION AND ACTIVITY OF NF-KAPPA B TRANSCRIPTION FACTORS IN ARTERIAL ENDOTHELIUM
S Cuhlmann* (1,2), K Van der Heiden (1), M Zakkar (1), H Chaudhury (1), LA Luong (1), JM Mason (1), DO Haskard (1), R Krams (2) PC Evans PC (1)
(1) British Heart Foundation Cardiovascular Sciences Unit, National Heart and Lung Institute, Imperial College London, UK; (2) Department of Bioengineering, Imperial College London, UK
- (9) THREE-DIMENSIONAL IMAGING OF ATHEROSCLEROTIC PLAQUES IN APOLIPOPROTEIN E-DEFICIENT MICE
GJ Dever(1); G Rodolico(2,3); L Berrino(3); IB McInnes(4); J Brewer(1); P Garside(1); P Maffia(2)*
(1) Centre for Biophotonics, (2) Institute of Pharmacy & Biomedical Sciences, University of Strathclyde, Glasgow, UK; (3) Department of Experimental Medicine, Second University of Naples, Italy; (4) Division of Immunology, Infection & Inflammation, University of Glasgow, UK
- (10) ASYMMETRIC AND SYMMETRIC DIMETHYLARGININES ARE OF SIMILAR PREDICTIVE VALUE FOR CARDIOVASCULAR RISK IN THE GENERAL POPULATION
A Didangelos* (1), S Kiechl (2), T Lee (3), P Santer (4), G Thompson (1), S Tsimikas (5), G Egger (4), DW Holt (3), J Willeit (2), Q Xu (1), M Mayr (1)
(1) Cardiovascular Div, King's College, London, UK. (2) Dept of Neurology, Medical University, Innsbruck, Austria. (3) Analytical Unit, St. George's University, London, UK. (4) Dept of Laboratory Medicine, Bruneck Hospital, Bruneck, Italy. (5) Dept of Medicine, University of California San Diego, USA
- (11) THE ROLE OF TRIBBL2 IN PI3K CASCADE REGULATION AND AKT/PKB ANTI-APOPTOTIC SIGNALLING CASCADE
LM Docherty*, A Angyal, S Francis, E Kiss-Toth
Cardiovascular Science, University of Sheffield, UK
- (12) FTY720, A SPHINGOSINE-1-PHOSPHATE ANALOGUE, PREVENTS ISCHAEMIC/REPERFUSION INDUCED CARDIAC ARRHYTHMIAS IN AN EX-VIVO RAT HEART MODEL VIA ACTIVATION OF P21 ACTIVATED KINASE/PROTEIN KINASE AKT SIGNALLING.
E Eroume A Egom(1)*, Y Ke(2), H Musa(1), D Chirico(1), TMA Mohamed(1), T Wang(1), EJ Cartwright(1), J R Solaro(2) M Lei(1)
1Cardiovascular Research Group, University of Manchester, Manchester, UK 2Department of Physiology, University of Illinois at Chicago, Chicago, IL, USA
- (13) SHEAR STRESS AND NITRIC OXIDE TRANSPORT AFFECTS NF-KB DYNAMICS IN ENDOTHELIAL CELLS
N Foin*, A Plata-Garcia, S Cuhlmann, PC Evans, CG Caro, R Krams
Department of Bioengineering, Cardiovascular sciences and Aeronautics, Imperial College London, UK
- (14) 3D STRESS ANALYSIS ON CAROTID ARTERIAL PLAQUES BASED ON MRI DATA: A COMPARISON BETWEEN SYMPTOMATIC AND ASYMPTOMATIC PATIENTS
H Gao(1*), Q Long(1), M Graves(2), Zi-Y Li(2), JH Gillard(2)
1 Brunel Institute for Bioengineering, Brunel University, Uxbridge, UK; 2 Department of Radiology Cambridge University Hospitals NHS Foundation Trust, Addenbrooke's Hospital Cambridge, UK
- (15) THE EFFECT OF ALTERED MACROPHAGE BEHAVIOUR ON ZEBRAFISH COLLATERAL VESSEL DEVELOPMENT
C Gray*, DC Crossman, TJA Chico
Department of Cardiovascular Science, University of Sheffield

- (16) CHEMERIN STIMULATES THE RAPID ADHESION OF LEUKOCYTES TO FIBRONECTIN AND VCAM-1 VIA ACTIVATION OF VLA-4 AND VLA-5
R Hart*, DR Greaves
Sir William Dunn School of Pathology, University of Oxford, Oxford, UK
- (17) A NOVEL CHICK EMBRYO MODEL REVEALS THAT ENDOTHELIN RECEPTOR B IS ESSENTIAL FOR COLLATERAL VESSEL DEVELOPMENT
E Hoggar*, S Pugh, S Wilson, M Placzek, D Crossman, T Chico
MRC Centre for Biomedical and Developmental Genetics The University of Sheffield, Sheffield, UK
- (18) MMP-13: A NOVEL PLATELET PROTEIN AND A POTENT INHIBITOR OF PLATELET AGGREGATION
J-M Howes*, N Pugh, RW Farndale
Department of Biochemistry, University of Cambridge, Cambridge, UK
- (19) MT1-MMP DEFINES A POPULATION OF PRO-INFLAMMATORY FOAM-CELL MACROPHAGES ASSOCIATED WITH UNSTABLE ATHEROSCLEROSIS
NP Jenkins* (1), JL Johnson (1), G Pasterkamp (2) , and AC Newby(1)
(1) Bristol Heart Institute, Level 7 Bristol Royal Infirmary, Bristol, UK
(2) University Medical Centre Utrecht, Utrecht, The Netherlands
- (20) RNA EDITED ORAI1 CHANNEL IN VASCULAR SMOOTH MUSCLE CELL PROLIFERATION AND MIGRATION
J Li*, L McKeown, CJ Milligan, J Naylor, D O'Regan, KE Porter, DJ Beech
Multidisciplinary Cardiovascular Research Centre, University of Leeds, Leeds, UK
- (21) 3-DIMENSIONAL EX VIVO ANALYSIS BY OPTICAL PROJECTION TOMOGRAPHY DEMONSTRATES THAT EXOGENOUS GLUCOCORTICOIDS AUGMENT ATHEROGENESIS IN APOE-/- MICE
L Low*, NS Kirkby, JR Seckl, BR Walker, PWF Hadoke
Centre for Cardiovascular Science, The Queen's Medical Research Institute, University of Edinburgh, Scotland, UK
- (22) REDUCED ATHEROSCLEROSIS IN LOW DENSITY LIPOPROTEIN RECEPTOR DEFICIENT MICE LACKING COMPLEMENT ALTERNATIVE PATHWAY ACTIVATION
TH Malik(1)*, D Carassiti(1), A Cortini(1), VWY Leung(2), MJ Lewis(1), DO Haskard(2),
M Botto(1)
(1) Molecular Genetics and Rheumatology Section, and (2) BHF Cardiovascular Medicine Unit, Imperial College, London, UK
- (23) TELOMERES ARE SHORTER IN MYOCARDIAL INFARCTION PATIENTS COMPARED TO HEALTHY SUBJECTS; CORRELATION WITH ENVIRONMENTAL AND GENETIC RISK FACTORS
CG Maubaret*(1), KD Salpea (1), A Jain (2), JA Cooper (1), the HIFMECH consortium, J Sanders (3), H Montgomery (4), D Nair (2), SE Humphries(1)
1 Centre for Cardiovascular Genetics, University College London (UCL), UK; 2 Department of Clinical Chemistry, Royal Free Hospital, London, UK; 3 Department of Surgery, UCL, UK; 4 Institute for Human Health and Performance, UCL, UK
- (24) TOLL-LIKE RECEPTOR-2 MEDIATES INFLAMMATION AND MATRIX DEGRADATION IN HUMAN ATHEROSCLEROSIS
C Monaco* (1, 2), SM Gregan (1), TJ Navin (1,2), BMJ Foxwell (1), AH Davies (2), M Feldmann (1)
Kennedy Institute of Rheumatology (1) and Surgery, Oncology, Reproductive Biology and Anesthetic(2) Divisions, Faculty of Medicine, Imperial College, London, UK
- (25) NRF3 MEDIATES STEM CELL DIFFERENTIATION INTO SMOOTH MUSCLE CELLS THROUGH INCREASED ROS GENERATION AND PLA2G7 PRODUCTION
AE Pepe*, Q Xiao, A Zampetaki, Q Xu
Cardiovascular Division, King's College London BHF Centre, London, UK
- (26) PROTEOMIC ANALYSIS REVEALS PRESENCE OF PLATELET MICROPARTICLES IN ENDOTHELIAL PROGENITOR CELL CULTURES
M. Prokopi* (1), G. Pula (1), U. Mayr (1), C.M. Boulanger (2), Q. Xiao (1), Q. Xu (1), S. Kiechl (3), M. Mayr (1).
(1) Cardiovascular Division, King's College, London, UK; (2) INSERM Cardiovascular Research Center Lariboisière, Paris, France; (3) Dept. of Neurology, Medical University Innsbruck, Innsbruck, Austria
- (27) INSULIN LIKE GROWTH FACTOR BINDING PROTEIN-1 PROTECTS AGAINST ENDOTHELIAL DYSFUNCTION
A Rajwani*(1), J Surr(1), KE Porter(1), H Viswambharan(1), H Imrie(1), A Abbas(1), R Cubbon(1), V Ezzat(2), MT Kearney(1), SB Wheatcroft(1)
(1)University of Leeds, UK; (2)King's College London, UK
- (28) HUMAN CD34+ BUT NOT CD34-VE CELLS SURVIVE IN THE ZEBRAFISH VASCULATURE
J Roche*(1), R Barclay (2), O Tura (2), TJA Chico (1)
(1) MRC Centre for Developmental and Biomedical Genetics, University of Sheffield (2) University of Edinburgh
- (29) NOTCH SIGNALLING IN VASCULAR SMOOTH MUSCLE CELL SURVIVAL
A Sadli*, M Sargurupremraj, D Trump , CM Holt, T Wang
School of Clinical and Laboratory Sciences, Faculty of Medical and Human Sciences, The University of Manchester, UK
- (30) A COMBINED IMAGING, COMPUTATIONAL AND HISTOLOGICAL ANALYSIS OF A RUPTURED CAROTID ARTERY
G Soloperto*(1), N Keenan(2), M Sheppard(3), N Wood(1), DJ Pennell(2), R Mohiaddin(2), XY Xu(1)
(1) Department of Chemical Engineering, Imperial College London, UK (2) Cardiovascular Magnetic Resonance Unit, Royal Brompton & Harefield Trust, and (3) Department of Pathology, National Heart and Lung Institute, Imperial College London, UK
- (31) PAPP-A FROM HUMAN ATHEROSCLEROTIC PLAQUES IS AN ACTIVE ENZYME THAT CLEAVES IGFBP-4.
TI Solovyeva*(1), AB Postnikov (1), DV Serebryanaya (2), AV Kharitonov (2), AG Katrukha(1)
(1) HyTest LTD, Turku, Finland; (2) School of Biology, Moscow State University, Moscow, Russia
- (32) THE TRANSCRIPTION FACTOR ERG PREVENTS VASCULAR INFLAMMATION BY REPRESSING ICAM-1 EXPRESSION
A Sperone*, GM Birdsey, N Dryden, P Evans, J Boyle, DO Haskard, JC Mason, AM Randi
NHLI Cardiovascular Sciences, Imperial College London, Hammersmith Hospital, London, UK
- (33) VISUALISING ANGIOGENESIS AND BLOOD FLOW IN HUMAN TUMOUR XENOGRAFTS GROWN IN ZEBRAFISH EMBRYOS
S Tazzyman (1 and 2)*, T Chico (2), GM Tozer (3) CE Lewis (1)
1: TTG, Medical School, University of Sheffield. 2: MRC Centre for Developmental and Biomedical Genetics , University of Sheffield. 3: Tumour Microcirculation Group, Medical School, University of Sheffield

- (34) REDUCTION OF EARLY VEIN GRAFT THROMBOSIS BY LOCALLY-DELIVERED TISSUE PLASMINOGEN ACTIVATOR GENE TRANSFER
AC Thomas*, MJ Wyatt and AC Newby
Bristol Heart Institute, University of Bristol, Bristol
- (35) POST-TRANSLATIONAL MODIFICATIONS OF FOXO3A MEDIATES ITS PRO-APOPTOTIC EFFECTS IN VASCULAR SMOOTH MUSCLE CELLS
J Tucka*, N Figg, S Kumar, M Bennett, I Gorenne, T Littlewood
Division of Cardiovascular Medicine, University of Cambridge, Addenbrooke's Hospital, Cambridge, UK
- (36) PRELAMIN-A DISRUPTS NESPRIN-2 FUNCTION AND IMPAIRS DNA DAMAGE REPAIR PROCESSES DURING NORMAL AND PREMATURE VASCULAR AGEING
DT Warren*, T Tajsic (1), QP Zhang, CM Shanahan
Division of Cardiovascular Medicine, The James Black Centre, Kings College London, UK
(1) Department of Medicine, Addenbrooke's Hospital, Cambridge, UK
- (37) THE CHEMOKINE FRACTALKINE (CX3CL1) HAS ANTI-APOPTOTIC AND PROLIFERATIVE EFFECTS ON PRIMARY HUMAN SMOOTH MUSCLE CELLS VIA EPIDERMAL GROWTH FACTOR RECEPTOR SIGNALLING
GE White*, DR Greaves
Sir William Dunn School of Pathology, University of Oxford, Oxford, UK
- (38) GLYCOSAMINOGLYCAN CHAIN SYNTHESIS ON DECORIN CONTRIBUTES TO OXIDATIVE STRESS-INDUCED CALCIFICATION OF HUMAN VASCULAR SMOOTH MUSCLE CELLS
JY Yan[1]*, V Menys[1], C GÄtting[2], B MÄ¼ller[2], D Aeschlimann[3], MY Alexander[1]
1 Cardiovascular Research Group, University of Manchester, UK; 2 Heart and Diabetes Center NRW, Ruhr University Bochum, Germany; 3 Matrix Biology and Tissue Repair Research Unit, Cardiff University, UK
- (39) NOX4-PRODUCED H2O2 MEDIATED SMOOTH MUSCLE CELL DIFFERENTIATION FROM STEM CELL
Q Xiao*, Z Luo, A Pepe, A Margariti, L Zeng, Q Xu
Cardiovascular Division, King's College London BHF Centre, London, UK
- (40) ACTIVATION OF NF-E2 RELATED FACTOR-2 (NRF2) PROTECTS ARTERIES FROM EXHIBITING A PRO-INFLAMMATORY STATE
M Zakkar(1)*, K van der Heiden(1), H Chaudhury(1), R Krams(2), DO Haskard(1), JC Mason (1), PC Evans(1)
1British Heart Foundation Cardiovascular Sciences Unit, National Heart and Lung Institute, Imperial College London, UK; 2Department of Bioengineering, Imperial College London, UK

19:45 Conference Dinner – *St Catherine's College*

Personal Perspectives on Plaque Fissuring (*Professors Gustav Born and Peter Richardson*)
Announcement of the winners of the Young Investigator awards

FRIDAY 3 APRIL:

08:00 BAS Committee meeting - *Medical Sciences Teaching Centre*

Chairperson: David Grieve

09:30-10:45 **FREE COMMUNICATIONS**

09:30-09:40 (e)
MT1-MMP PROMOTES MOUSE MONOCYTE MIGRATION SUGGESTING AN IMPORTANT ROLE IN ATHEROSCLEROSIS DEVELOPMENT AND PLAQUE STABILITY
K Di Gregoli, AC Newby & JL Johnson*
Bristol Heart Institute, Clinical Sciences at South Bristol, University of Bristol, UK

09:40-09:45 Discussion

09:45-09:55 (f)
PARATHYROID HORMONE RECEPTOR 1 GENE KNOCKDOWN INDUCES AORTIC OCCLUSION IN ZEBRAFISH EMBRYOS
**J Lees, D Crossman, TJA Chico.*
MRC Centre for Developmental and Biomedical Genetics, University of Sheffield, Sheffield, UK

09:55-10:00 Discussion

- 10:00-10:10 (g)
PROTEOMICS IDENTIFIES THYMIDINE PHOSPHORYLASE AS A KEY REGULATOR OF THE ANGIOGENIC POTENTIAL OF COLONY-FORMING UNITS AND ENDOTHELIAL PROGENITOR CELL CULTURES
*U Mayr**, *G Pula*, *C Evans*, *M Prokopi*, *X Yin*, *Q Xiao*, *J Hill*, *Q Xu*, *M Mayr* *Cardiovascular Division, King's BHF Centre, King's College London, London, UK*
- 10:10-10:15 Discussion
- 10:15-10:25 (h)
THERAPEUTIC TARGETTING OF ATHEROSCLEROTIC PLAQUES WITH LATENT INTERLEUKIN-4
S Vessillier(1)*, *J Duchene(1)*, *I Vojnovic(1)*, *F Cipollone(2)*, *A Mezzetti(2)*, *A Ahluwalia(1)*, *D Bishop-Bailey(1)*, *Y Chernajovsky(1)*, *T D Warner(1)*
William Harvey Research Institute (1), Queen Mary University of London, UK; Dept of Medicine and Aging, University of Chieti G. da€™Annunzio (2), Italy
- 10:25-10:30 Discussion
- 10:30-10:40 (i)
HDAC3 EXPRESSION AT BIFURCATION AREAS PLAYS A CRITICAL ROLE IN PRESERVING THE ENDOTHELIAL MONOLAYER AND MAINTAINING THE VASCULAR INTEGRITY
*A Zampetaki**, *L Zeng*, *A Margariti*, *Y Hu*, *Q Xu*
Cardiovascular Division, King's College London, UK

10:45-11:15 Coffee

DIAGNOSIS AND TREATMENT OF THE VULNERABLE PLAQUE

Chairperson: Yvonne Alexander

- 11:15-11:35 **IMAGING THE WALL, NOT THE LUMEN**
Andreas König
Ludwig-Maximilians-Universität, Munich, GERMANY
- 11:35-11:45 Discussion
- 11:45-12:05 **DO BIOMARKERS TELL YOU ANY MORE THAN YOU ALREADY KNOW?**
Juan Carlos Kaski
St Georges, London, UK
- 12:05-12:15 Discussion
- 12:15-12:35 **DRUGS FOR PRIMARY AND SECONDARY PREVENTION: FROM STATINS TO BEYOND**
Andrea Mezzetti
University of Chieti, ITALY
- 12:35-12:45 Discussion
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- 12:45-12:50 Presentation of the Clinical Science award for best poster
- 12:50-13:00 Concluding remarks: *Dorian Haskard*
- 13:00-14:00 Close of Meeting and Lunch
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- 13:00 BSCR Committee meeting (over lunch) - *Medical Sciences Teaching Centre*

Meeting Secretariat: Wheldon Events & Conferences **Tel:** +44 (0)1922 457 984 / **Fax:** +44 (0)1922 455 238
Email: wheldonevents@btconnect.com / **Web:** <http://www.britathsoc.org/> OR <http://www.bscr.org/>