

“New Frontiers in Cardiovascular Research”

Organised by: Derek Hausenloy, Manuel Mayr

Monday June 7th 2010

0700 – 0900 BSCR Committee meeting in Exchange Room 2

0800 – 1045 Registration

1045 – 1215

CENTRAL 5

Systems Biology and Proteomics in Cardiovascular Research

Sponsored by the British Society for Proteome Research

Chairperson: Michael Dunn (EuPA President), Qingbo Xu (London, UK)

1045 – 1110 **A primer in systems biology**
Jake Lusis
University of California Los Angeles, USA

1110 – 1130 **Computational models of the heart:
Integrating 'wet' and 'dry' R&D**
Peter Kohl
University of Oxford, UK

1130 – 1155 **A proteomic approach to cardiac disease**
Jennifer Van Eyk
John Hopkins University Proteomics Center, USA

1155 – 1215 **Cardiovascular biomarker discovery**
Andrew Pitt
University of Glasgow, UK

1215 – 1300 Lunch

1215 – 1300 **CENTRAL 5**
BAS AGM

1315 – 1330

CENTRAL 5

Chairperson: Sarah George (Bristol, UK)

Michael Davies Early Career Award 2009

**Novel molecular mechanisms of diabetes-induced endothelial damage: Focus
on p75NTR and microRNAs**

Costanza Emanuelli
Bristol University, UK

Monday June 7th 2010

1330 – 1500

CENTRAL 5

Chairperson: Sarah George (Bristol, UK)

Judges: M Bennett, Y Alexander, A Grace, R Heads, R Choudhury

Joint BSCR/BAS Young Investigator Award

- 1330 – 1345 **Interaction between HDAC3 and XBP1 is critical in maintenance of endothelial integrity**
Daniel Martin, King's College London, UK
- 1345 – 1400 **11b-HSD1 deficiency attenuates atherosclerosis in APOE^{-/-} mice: role of both glucocorticoid and non-glucocorticoid (oxysterol) factors**
Tijana Mitic, University of Edinburgh, UK
- 1400 – 1415 **Proteomic analysis of the cardiac myofilament subproteome reveals dynamic alterations in phosphatase subunit distribution**
Xiaoke Yin, King's College London, UK.
- 1415 – 1430 **C-JUN N-terminal kinase promotes endothelial activation at atherosclerosis-susceptible sites by enhancing expression of NF- κ B transcription factors**
Simon Cuhlmann, Imperial College, London
- 1430 – 1445 **PKC δ -deficiency accelerates neointimal lesions in a mouse model of vascular injury involving delayed reendothelialization and vasohibin-1 accumulation**
Xue Bai, King's College London, UK
- 1445 – 1500 **Effects of GLP-1 eluting stem cell therapy on collagen remodelling, infarct size and apoptosis in a porcine model of myocardial infarction**
Elizabeth Wright, University of Manchester, UK

1500 – 1600

EXHIBITION HALL

BSCR/BAS Posters

1630 – 1730

EXCHANGE AUDITORIUM

Introduced by Dr Mark de Belder

Thomas Lewis Lecture

Biodegradable drug eluting stent or vascular restoration therapy for percutaneous revascularization, the 4th revolution

Patrick Serruys (Rotterdam, The Netherlands)

1745 – 1845

CENTRAL 5

Chairperson: Dorian Haskard (London, UK)

BAS John French Lecture

Proteomics and Metabolomics:

Ready for the Prime Time in Cardiovascular Research

Manuel Mayr (King's College London, UK)

1930

BAS/BSCR CONFERENCE DINNER

Stock Restaurant, The Stock Exchange

Announcement of BAS/BSCR YIA and Clinical Science poster winners

Tuesday June 8th 2010

0730 – 0945 BAS Committee meeting in Exchange room 4

0830 – 0945 **CENTRAL 5**

Chairpersons: Chris Newman (Sheffield, UK)

Free communications

0830 – 0845 **Dipeptidyl peptidase iv inhibitors limit myocardial infarct size in a glucose-sensitive manner**

Derek Hausenloy, University College London, UK.

0845 – 0900 **Activating transcription factor 1 coregulates iron, lipid and anti-inflammatory target genes to direct a novel atheroprotective human plaque macrophage subset (M-HEM)**

Joseph Boyle, Imperial College, UK.

0900 – 0915 **Changes in nuclear and mitochondrial DNA damage in primary vascular smooth muscle derived cells and tissue.**

Liam Hurst, Cambridge University, UK.

0915 – 0930 **The alternative pathway is critical for pathogenic complement activation in diet –induced and endotoxin-induced atherosclerosis in low-density lipoprotein receptor-deficient mice.**

Talat Malik, Imperial College, UK.

0930 – 0945 **Real time imaging of lymphocytes in APOE-/- mouse aortic tertiary lymphoid organs**

Gianluca Grassia, Glasgow University, UK.

0945 – 1015 Break

1015 – 1100 **CENTRAL 5**

Metabolomics in Cardiovascular Research

Chairpersons: Ludwig Neyses (Manchester, UK), Manuel Mayr (London, UK)

1015 – 1040 **A metabolomic platform for cardiovascular disease**

Rob Gerszten

Massachusetts General Hospital, USA

1040 – 1100 **Cardiovascular metabolomics in metabolic syndrome**

Jules Griffin

University of Cambridge, UK

1100 – 1230 **EXCHANGE HALL**

BCS Young Research Worker's Prize

1230 – 1330 Lunch

Tuesday June 8th 2010

1330 – 1500

CENTRAL 5

Translational Issues in Cardiovascular Research

Plenary with BCS

Chairpersons: Chris Newman (Sheffield, UK), Dorian Haskard (London, UK)

1330 – 1355 **Drug discovery in cardiovascular medicine**

*John Lepore
GlaxoSmithKline, UK*

1355 – 1415 **The interface between academia and industry**

*Lars Sundstrom
Bristol, UK*

1415 – 1435 **NIHR funding for cardiovascular research**

*David Crossman
Sheffield, UK*

1435 – 1500 **The new landscape of cardiovascular research funding**

*Peter Weissberg
British Heart Foundation*

1500 – 1530 Tea

1530 – 1620

CENTRAL 5

New Developments in Cardiovascular Research

Chairpersons: Derek Hausenloy (London, UK), Chris Jackson (Bristol, UK)

1530 – 1555 **MicroRNA in cardiovascular development and disease**

*Stefanie Dimmeler
Goethe University, Frankfurt am Main, GERMANY*

1555 – 1620 **Autophagy in cardiovascular disease**

*Guido R. Y. De Meyer
University of Antwerp, BELGIUM*

1620 – 1630 *Chairs: Chris Newman (Sheffield, UK), Dorian Haskard (London, UK)*
BAS/BSCR Meeting close.

1630 – 1730

EXCHANGE AUDITORIUM

BCS/RCP Lecture supported by the Joy Edelman Legacy

New discoveries and their translation to man

*David Crossman
Sheffield, UK*

BSCR/BAS Posters

1. BAS/BSCR

VACCINATION AGAINST INFLUENZA PROMOTES STABLE ATHEROSCLEROTIC PLAQUES IN APOE-/- MICE

A. Bermudez-Fajardo* and E. Oviedo-Orta

Faculty of Health and Medical Sciences, University of Surrey, Guildford, Surrey, GU2 7XH, United Kingdom

2. BAS/BSCR

ANALYSIS OF MICROVESSELS WITHIN CAROTID PLAQUES: COMPARISON OF SYMPTOMATIC AND ASYMPTOMATIC PATIENTS TO IDENTIFY THOSE AT RISK FROM PLAQUE RUPTURE

EJR Hill* (1), M Chowdhury (1), F Serracino-Inglott (2), JV Smyth (2), M Slevin (3), MY Alexander(1)

(1) Cardiovascular Research Group, The University of Manchester, Core Technology Facility, M13 9NT, UK; (2) Department of Vascular Surgery, Manchester Royal Infirmary, M13 9PL, UK; (3) School of

Biology Chemistry and Health Science, Manchester Metropolitan University, M15 6BH, UK

3. BAS/BSCR

PARTIAL RECONSTRUCTION OF MYOCARDIAL METABOLIC PATHWAYS FOLLOWING ANALYSIS OF PERIPHERAL SERUM USING METABOLOMICS IN EARLY CARDIAC ISCHAEMIA.

M.A.Mamas^{1*}, W.B.Dunn², D.Broadhurst², S.Chacko¹, M.Brown³, M.El-Omar¹, F.Fath-Ordoubadi¹, R.Goodacre², D.B. Kell^{2,3} and L.Neyses¹

1. Biomedical Research Centre, Central Manchester NHS Foundation Trust, UK 2. Manchester Centre for

Integrative Systems Biology and 3. Bioanalytical Sciences Group, Manchester Interdisciplinary

Biocentre, University of Manchester, U.K

4. BAS/BSCR

THE ROLE OF RECEPTOR ACTIVATOR OF NUCLEAR FACTOR KAPPA-B LIGAND (RANK-L) AND ITS DECOY RECEPTOR, OSTEOPROTEGERIN (OPG) IN VASCULAR CALCIFICATION.

AS Williams^{*}(1), A Ndip(1),(2), E Jude(2), AJM Boulton(2) & MY Alexander(1),

(1)Cardiovascular Research Group, Manchester Diabetes Centre, Faculty of Medicine & Human Science,

School of Biomedicine, University of Manchester, UK.

5. BAS/BSCR

TILRR POTENTIATES IL-1-INDUCED ANTI-APOPTOSIS

Gemma Montagut Pino*, Xiao Zhang and Eva E Qvarnstrom

Cell Biology, Vascular Science, University of Sheffield

6. BAS/BSCR

ALPHA-KETOGLUTARATE: BIOLOGICAL EFFECTS OF A NOVEL BIOMARKER OF HEART FAILURE

T Nikolaidou*, M Mamas, D O'Ceandú, L Neyses.

Cardiovascular Medicine, School of Biomedicine, University of Manchester, Oxford Road, Manchester,

M13 9PT.

7. BAS/BSCR

DEMONSTRATION OF GENE EXPRESSION WITHIN A THROMBUS: FURTHER REGULATION OF THE HAEMOSTATIC RESPONSE

JR Wright^{*}(1), P Ellis(2), C Langford(2), NA Watkins(3), WH Ouwehand(3), AH Goodall(1)

(1)Dept of Cardiovascular Sciences, University of Leicester, Leicester, UK; (2)Dept of Haematology,

University of Cambridge, Cambridge, UK, (3)Wellcome Trust Sanger Institute, Hinxton, UK.

8. BAS/BSCR

DOES MACROPHAGE FOAM CELL FORMATION PROMOTE EXTRACELLULAR MATRIX FORMATION OR DEGRADATION? A GENOMIC STUDY

A.C. Thomas(1)*[^], J.L. Johnson(1)[^], W.J. Eijgelaar(2)[^], M.J.A.P. Daemen(2) and A.C. Newby(1),

(1)Bristol Heart Institute, Bristol, UK and (2)CARIM, Maastricht, Netherlands ([^]equal contribution).

9. BAS/BSCR

PROTEOMIC CHARACTERIZATION OF EXTRACELLULAR SPACE COMPONENTS IN THE HUMAN AORTA

A Didangelos^{*}(1), X Yin (1), K Mandal (2), M Jahangiri (3), M Mayr (1)

(1) King's BHF Centre, King's College London, UK. (2) Department of Cardiac Surgery, Johns Hopkins University,

Baltimore, USA. (3) Department of Cardiac Surgery, St. George's Healthcare NHS Trust, London, UK.

10. BAS/BSCR

DECORIN ACCELERATES VASCULAR CALCIFICATION VIA TGF-BETA SIGNALLING MODULATION

GM Quigley*, JY Yan, SJ Kakar, K Farrell, PA Kingston, CM Holt and MY Alexander.

Cardiovascular Research Group, Faculty of Medicine & Human Science, School of Biomedicine,

University of Manchester, UK.

11. BAS/BSCR

PULSE WAVE VELOCITY AS A SENSITIVE INDICATOR OF VASCULAR RISK ACROSS ETHNIC GROUPS A EUROPEAN MALE AGEING (SUB-)STUDY (EMAS).

M Rezaei*, J Finn, F Wu, JK Cruickshank

Department of Cardiovascular & Endocrine Sciences, University of Manchester, 46 Grafton Street, M13 9NT

12. BAS/BSCR

PROTEOMIC ANALYSIS OF SMOOTH MUSCLE CELLS DERIVED FROM CAROTID PLAQUE REVEALS DIFFERENCES BETWEEN SYMPTOMATIC & ASYMPTOMATIC PLAQUES

L.E. Full* (1), A.H. Davies (2), R. Wait (1), C. Monaco (1).

(1) Cytokine Biology of Atherosclerosis Group, Kennedy Institute of Rheumatology, Imperial College London, UK

(2) Imperial Vascular Unit, Imperial College London, Charing Cross Hospital London, UK

13. BAS/BSCR

INCREASED PAI-1 MAY EXPLAIN DEXAMETHASONE-INDUCED THROMBOSIS AS SITE OF INTRA-LUMINAL WIRE INJURY.

L. Low*, J.R. Seckl, B.R. Walker and P.W.F. Hadoke.

Centre for Cardiovascular Science, The Queen's Medical Research Institute, University of Edinburgh, Scotland, UK.

14. BAS/BSCR

LIPIDOMIC PROFILING OF HUMAN ATHEROSCLEROTIC PLAQUES

C. Stegeman* (1), J. Shalhoub (2), J. Jenkins (1), A.H. Davies (3), C. Ladroue (4), C. Monaco (2), A. Smith (1), Q. Xu (1), M. Mayr (1)

(1) King's BHF Centre, King's College London, (2) Imperial College, London, (3) Imperial Vascular Unit, London (4) University of Warwick, Warwick

15. BAS/BSCR

THE ROLE OF PINK1, A MITOCHONDRIAL PRO SURVIVAL KINASE, IN MYOCARDIAL ISCHAEMIA-REPERFUSION.

Siddall H*, Sands R, Davidson SM, Hausenloy DJ, Mocanu MM and Yellon DM

The Hatter Cardiovascular Institute, UCL Hospital and Medical School, 67 Chenies Mews, London, WC1E 6HX, UK

16. BAS/BSCR

TIME-DEPENDENT CHANGES IN ATRIAL NITRIC OXIDE-REDOX BALANCE IN ATRIAL FIBRILLATION.

TRANSLATIONAL RESEARCH (FROM GOATS TO HUMANS).

Reilly S*, Schotten U, Channon KM, Alp NJ, Casadei B

University of Oxford, United Kingdom

17. BAS/BSCR

MYOCARDIAL XANTHINE OXIDASE REGULATES BASAL INOTROPY IN MURINE LEFT VENTRICULAR MYOCYTES

SUN XH*, ZHANG YH, CASADEI B

Department of Cardiovascular Medicine, University of Oxford, John Radcliffe Hospital, United Kingdom OX3 9DU

18. BAS/BSCR

PROTECTION FROM DEVELOPMENT OF OBESITY IN HIGH FAT DIET FED RATS IS ASSOCIATED WITH PRESERVATION OF THE ANTICONTRACTILE FUNCTION OF PERIVASCULAR ADIPOSE TISSUE

R Aghamohammadzadeh*(1,3), AS Greenstein(1), BH Park(1), EL Porter(2), G Edwards(2), AH Weston(2), AM Heagerty(1)

1: Cardiovascular Research Group, University of Manchester, 2: Department of Life Sciences, University of Manchester 3: Manchester Biomedical Research Centre

19. BAS/BSCR

VISUALISING INFLAMED ATHEROSCLEROTIC PLAQUES: MOLECULAR IMAGING USING MRI AND TARGETED ULTRASOUND SMALL SUPERPARAMAGNETIC PARTICLES OF IRON OXIDE (USPIO)

*J Chan 1, C Monaco 2, K Bhakoo 3, RGJ Gibbs 1

1. Vascular Surgery unit, St Mary's Hospital, Imperial College London

2. Cytokine Biology of Atherosclerosis, Kennedy Institute of Rheumatology, Imperial College, Charing Cross campus

3. Stem Cell Imaging Group, Imperial College, Hammersmith campus

20. BAS/BSCR

THE ROLE OF A GAB1-TRIBBLIN 2 INTERACTION IN PI3K, AKT/PKB CASCADE REGULATION AND CELLULAR MORPHOLOGY

L. M. Docherty*, A. Angyal, S. Francis and E. Kiss-Toth. Cardiovascular Science, School of Medicine, University of Sheffield, S10 2RX, UK

21. BAS/BSCR

AKT PROTECTS THE HEART BY PROMOTING MITOCHONDRIAL FUSION

SB Ong*, S Arjun, SY Lim, SM Davidson, DM Yellon, DJ Hausenloy.

The Hatter Cardiovascular Institute, University College London, UK.

22. BAS/BSCR

TIME SERIES ANALYSIS OF ACUTE CORONARY SYNDROME FROM PERIPHERAL WHOLE BLOOD USING AFFYMETRIX GENECHIP ARRAYS.

S. Craig* (1,2), A.C. Morton(1), J. Arnold(1), D.C Crossman(1,2), M. Milo(1,2) (1)NIHR Cardiovascular Biomedical Research Unit, Northern General Hospital, Sheffield; (2)School of Medicine and Biomedical Sciences, University of Sheffield, Beach Hill Road, Sheffield S10 2RX)

23. BAS/BSCR

APOCYNIN TREATMENT REDUCES HIGH-FAT DIET-INDUCED OBESITY AND HYPERTENSION BUT HAS NO SIGNIFICANT EFFECT ON HYPERGLYCAEMIA

*Junjie Du and Jian-Mei Li. Cardiovascular Research Team, Faculty of Health and Medical Sciences, University of Surrey, Guildford, Surrey, GU2 7XH,UK

24. BAS/BSCR

SPIRONOLACTONE REVERSES THE ADVERSE EFFECTS OF ALDOSTERONE AND HYPOXIA ON ADIPOSE TISSUE

S Withers*, C Agabiti-Rosei, DM Livingstone, R Aslam, RA Malik and AM Heagerty
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25. BAS/BSCR

IMPORTANCE OF INTERACTION BETWEEN PEROXISOME PROFILERATOR-ACTIVATED RECEPTOR-ALPHA AND NADPH OXIDASES IN CARDIAC HYPERTROPHY

E Robinson* and D J Grieve.
Centre for Vision and Vascular Science, Queen's University Belfast, UK.

26. BAS/BSCR

HDAC3 PROTECTS ENDOTHELIAL CELLS FROM INFLAMMATION VIA REGULATION OF GALECTIN 9 EXPRESSION.

Saydul Alam*, Hongling Li, Daniel Martin, Anna Zampetaki, Yanhua Hu, Qingbo Xu and Lingfang Zeng
Cardiovascular Division, King's College London BHF Centre, London, UK

27. BAS/BSCR

DIESEL EXHAUST PARTICLES PROMOTE ATHEROSCLEROSIS IN APOLIPOPROTEIN E DEFICIENT MICE

MR Miller*(1), SG McLean(1), R Duffin(2), CA Shaw(1), NL Mills(1), K Donaldson(2), DE Newby(1) & PWF Hadoke(1)(1) Centre of Cardiovascular Science, (2) Centre for Inflammation Research, University of Edinburgh, Edinburgh.

28. BAS/BSCR

BLOCKADE OF ADENOSINE A2A RECEPTOR ATTENUATES ANGIO-INDUCED ROS PRODUCTION AND IMPAIRMENT OF ENDOTHELIUM-DEPENDENT VESSEL RELAXATION IN MOUSE AORTAS

*Junjie Du, Susanna Hourani and Jian-Mei Li.
Faculty of Health and Medical Sciences, University of Surrey, Guildford, GU2 7XH,Surrey UK

29. BAS/BSCR

APOLIPOPROTEIN(A) IMPAIRS ADAPTIVE REMODELLING IN HUMAN SAPHENOUS VEIN ENDOTHELIAL AND SMOOTH MUSCLE CELLS

*K Riches, L Franklin, R Chowdhury, A Maqbool, DJ O'Regan, SG Ball, ML Koschinsky(1), NA Turner, KE Porter
Division of Cardiovascular & Neuronal Remodelling, LIGHT, University of Leeds, Leeds UK
(1)Department of Biochemistry, University of Windsor, Windsor, Ontario, Canada

30. BAS/BSCR

Title: Crucial roles of Cbx3 identified by nuclear proteomics in smooth muscle differentiation from stem cells and vascular injury-induced neointima formation

Xiao Q*1,2, Wang G 1, Bai X 1, Yin X 1, Luo Z 1, Mayr M 1, Ye S 2, Xu Q 1

1.Cardiovascular Division, King's College London BHF Centre, London, UK

2.Clinical Pharmacology, William Harvey Research Institute, Barts and The London School of Medicine and Dentistry, Queen Mary University of London, London, UK

31. BAS/BSCR

METABOLIC HOMEOSTASIS IS MAINTAINED IN MYOCARDIAL HIBERNATION BY ADAPTIVE CHANGES IN THE TRANSCRIPTOME AND PROTEOME

Anna Zampetaki* (1), D May (2), G Oren (2), X Yin (1), Q Xu (1), A Horrevoets (3), E Keshet (2), M Mayr (1)
(1) King's BHF Centre, King's College London (2) Hebrew University, Jerusalem, Israel (3) VU University Medical Center, Amsterdam, The Netherlands

32. BAS/BSCR

NAADP IS INVOLVED IN ISCHAEMIA-REPERFUSION-INDUCED Ca²⁺ OSCILLATIONS AND CELL DEATH.
NS Tan*, SM Davidson, DM Yellon
The Hatter Cardiovascular Institute, University College London Hospital & Medical School, UK

33. BAS/BSCR

CARDIOPROTECTION BY HYPOXIA-INDUCIBLE FACTOR-1 ALPHA: UNDERLYING BENEFICIAL EFFECTS ON MITOCHONDRIAL FUNCTION
*S-G Ong (1), SY Lim (1), L Theodorou (1), DH Shukla (2), PH Maxwell (2), DM Yellon (1), DJ Hausenloy (1)
(1) The Hatter Cardiovascular Institute, University College London Hospital & Medical School, UK.
(2) Centre for Cell Signalling and Molecular Genetics, University College London, UK.

34. BAS/BSCR

IS AN INCREASED AMPK ACTIVATION DURING ISCHAEMIA ESSENTIAL FOR THE PROTECTION OF THE HEART AGAINST INFARCTION?
M Paiva *(1,2), LM Goncalves(2), LA Providencia(2), SM Davidson(1), MM Mocanu(1), DM Yellon(1)
(1)The Hatter Cardiovascular Institute, University College London, United Kingdom. (2)Basic Research in Cardiology Unit, Cardiology Department, Coimbra University Hospital, Portugal

35. BAS/BSCR

EFFECTS OF ALSDOSTERONE AND OBESITY ON THE ANTICONTRACTILE PROPERTIES OF PERIVASCULARADIPOSE TISSUE IN RAT AORTIC RINGS.
Fiona M Lynch*, Abbigail Howson, Sarah B Withers, Anthony M Heagerty
Cardiovascular Research group, School of Biomedicine, University of Manchester, Core Technology Facility, Grafton St, Manchester, M13 9NT.

36. BAS/BSCR

REGULATION OF HUMAN SMOOTH MUSCLE CELL DEVELOPMENT BY MYOCARDIN
L Raphel and S Sinha*
Division of Cardiovascular Medicine, University of Cambridge, UK.

37. BAS/BSCR

DISCOVERY AND CHARACTERISATION OF NOVEL PEPTIDE AGONISTS AND THE FIRST ANTAGONIST FOR THE CARDIOVASCULAR PEPTIDES, THE APELINS
S.L. Pitkin(1), N.J.M. Macaluso(2), J. J. Maguire(1) R. C. Glen(2), A. P. Davenport(1)*
(1) Clinical Pharmacology Unit, University of Cambridge, Level 6 Centre for Clinical Investigation, Box 110 Addenbrooke's Hospital, Cambridge, CB2 0QQ, UK.(2) Unilever Centre for Molecular Sciences Informatics, Department of Chemistry, University of Cambridge, Lensfield Road, Cambridge, CB2 1EW, UK.

38. BAS/BSCR

CYTOKINE PROFILING IN CULTURE REVEALS A PREDOMINANCE OF M1 MACROPHAGE POLARISATION IN SYMPTOMATIC CAROTID PLAQUES
J Shalhoub* (1), A Cross (2), D Allin (1), D Essex (2), AH Davies (1), C Monaco (2)
(1) Imperial Vascular Unit, Imperial College London, Charing Cross Hospital London, UK
(2) Cytokine Biology of Atherosclerosis Group, Kennedy Institute of Rheumatology, Imperial College London, UK

39. BAS/BSCR

CIRCULATING CHEMICAL AND CELLULAR INJURY/REPAIR RESPONSES ARE LINKED TO CARDIAC DYSFUNCTION AND REMODELLING IN HUMAN MYOCARDIAL INFARCTION
RJ McGeoch(1,2), A McGarrity (1), AR Payne (1,2), S Watkins (2), T Steedman (2), A Davie (2), WS Hillis (2), MM Lindsay (2), SD Robb (2), E Rhoads(3), JC Tardif (3), KG Oldroyd (2), C Berry* (1,2). 1 BHF Glasgow Cardiovascular Research Centre, University of Glasgow, Glasgow; 2 Golden Jubilee National Hospital, Clydebank; 3 Montreal Heart Institute, Montreal, Canada.

40. BAS/BSCR

CORONARY HEART DISEASE (CHD) RISK ASSOCIATED WITH THE HOMOZYGOUS MINOR ALLELE FOR ECPR SER219GLY
H A Ireland(1)*, J A Cooper(1), P J Talmud(1), A D Hingorani(2), M Kivimäki(2), M Kumari(2) R Morris(3), I Tzoulaki(4), J Price(5), F G Fowkes(5), S E Humphries(1)
1)Division of Medicine, UCL; 2)Division of Epidemiology and Public Health, UCL; 3)Division of Primary Care and Population Health, Royal Free Campus, UCL; 4)Department of Epidemiology and Biostatistics, Imperial College London; 5)Centre for Population Health Sciences, University of Edinburgh

41. BAS/BSCR

MODULATION OF ECM PROTEIN EXPRESSION BY IL-1 IN HUMAN CARDIAC MYOFIBROBLASTS: REGULATION BY P38 MAP KINASE

NA Turner*, P Warburton, KE Porter

Division of Cardiovascular and Neuronal Remodelling, and Multidisciplinary Cardiovascular Research Centre (MCRC), University of Leeds, Leeds, UK.

42. BAS/BSCR

EFFECT OF P38-ALPHA GENE SILENCING ON CYTOKINE AND MMP EXPRESSION BY HUMAN CARDIAC MYOFIBROBLASTS.

JK Sinfield, A Das, KE Porter, NA Turner*

Division of Cardiovascular and Neuronal Remodelling, and Multidisciplinary Cardiovascular Research

43. BAS/BSCR

XBP1 SPLICING IS CRUCIAL IN ENDOTHELIAL CELL PROLIFERATION

Lingfang Zeng, Qingzhong Xiao, Hongling Li, Andriana Margariti, Yanhua Hu, and Qingbo Xu

Cardiovascular Division, King's College London BHF Centre, London, UK

44. BAS/BSCR

AKT ISOFORMS IN ISCHAEMIC PRECONDITIONING

*S.P. Kunuthur, D.J. Hausenloy, D.M. Yellon.

The Hatter Cardiovascular Institute, University College London, UK.

45. BAS/BSCR

THE MITOCHONDRIAL PERMEABILITY TRANSITION PORE AS A TARGET FOR CARDIOPROTECTION IN VENTRICULAR CARDIOMYOCYTES HARVESTED FROM OBSTRUCTIVE HYPERTROPHIC CARDIOMYOPATHY PATIENTS

P.S.C. Rees*, S.M. Davidson, S.E. Harding(1), P.M. Elliot(2), D.M. Yellon, D.J. Hausenloy.

The Hatter Cardiovascular Institute, University College London, UK.

(1) The National Heart and Lung Institute, Imperial College London, UK.

(2) The Heart Hospital, University College London Hospitals, London, UK.

46. BAS/BSCR

XBP1 SPLICING TRIGGERS AN AUTOPHAGIC SURVIVAL PATHWAY IN ENDOTHELIAL CELLS

Andriana Margariti, Hongling Li, Daniel Martin, Anna Zampetaki, Yanhua Hu, Qingbo Xu and Lingfang Zeng

Cardiovascular Division, King's College London BHF Centre, London, UK

47. BAS/BSCR

QUANTITATIVE METABOLIC PROFILING OF SUBCLINICAL ATHEROSCLEROSIS BY SERUM NMR METABONOMICS

P Würtz*(1,2,3), P Soininen(1), AJ Kangas(1), CG Magnussen(2), JH Raiko(2), VP Mäkinen(4), PH Groop(4), R Thomson(4), MJ Savolainen(1), M Juonala(2), J Viikari(2), M Kähönen(2), T Lehtimäki(2), OT Raitakari(2), M Ala-Korpela(1) 1 Computational Medicine, University of Oulu, Finland 2 Cardiovascular Risk in Young Finns study group, Turku & Tampere University Hospitals, Finland 3 Epidemiology and Public Health, Imperial College, UK 4 Folkhälsan Research Center, Finland

48. BAS/BSCR

COMPUTER MOLECULAR MODELLING OF THE P22PHOX PROTEIN STRUCTURAL CHANGES LINKED TO C242T POLYMORPHISM

Daniel Meijles*, Brendan J. Howlin and Jian-Mei Li

Cardiovascular Research, Faculty of Health and Medical Sciences, University of Surrey, UK

49. BAS/BSCR

THE EFFECT OF PRO-INFLAMMATORY CONDITIONING AND/OR HIGH GLUCOSE ON TELOMERE SHORTENING OF AGEING FIBROBLASTS

Cecilia G Maubaret*, Klelia D Salpea*, Annegret Kathagen, Gie Ken-Dror, Philippa Talmud

Steve E Humpries.

*These authors contributed equally to this work

Centre for Cardiovascular Genetics, Department of Medicine, University, College London, London, UK

50. BAS/BSCR

HGF/C-MET SGNALLING ACTIVATES NOTCH TRANSLOCATION AND IS ASSOCIATED WITH SMC MINERALISATION IN VITRO.

J. Durrand*, Y. Liu, T. Wang, MY. Alexander. Cardiovascular Research Group, Faculty of Medicine & Human Science, School of Biomedicine, University of Manchester, UK.

51. BAS/BSCR

EFFECT OF IMMUNISATION WITH C. PNEUMONIAE rMOMP ON ATHEROSCLEROSIS DEVELOPMENT.

R. El Kadri (1)*; A. Bermudez-Fajardo (1); M. Puolakkainen (2); G. Stewart (1) and E. Oviedo-Orta (1).

(1) University of Surrey, Faculty of Health and Medical Sciences, Guildford, Surrey GU2 7XH, UK.

(2) Department of Viral Diseases and Immunology, NPHI, Helsinki, Finland.

52. BAS/BSCR

CONTROL OF VASCULAR CELL INFLAMMATORY RESPONSES THROUGH TILRR, AN IL-1 CO-RECEPTOR

Monica Neilan*, Xiao Zhang, Sheila Francis and Eva E. Qvarnstrom

Cell Biology, Vascular Science, University of Sheffield

53. BAS/BSCR

INVESTIGATING THE IMPORTANCE OF HEPARAN SULPHATE IN DETERMINING ENDOTHELIAL PROGENITOR CELL FUNCTION.

K. Williamson(1)* S Haque(2) IN Bruce(2) SE Stringer (1) MY Alexander(1)

Cardiovascular Research Group (1), ARC Epidemiology Unit (2), University of Manchester.

54. BAS/BSCR

RELATIONSHIPS BETWEEN SLEEP DURATION AND VON WILLEBRAND FACTOR, FIBRINOGEN AND FACTOR VII: WHITEHALL II STUDY.

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55. BAS/BSCR

THE HYPOLIPIDAEMIC ACTIVITY OF NOVEL INDOLE-2-CARBOXAMIDES IN TRITON WR-1339-INDUCED HYPERLIPIDAEMIC RATS: A COMPARISON WITH BEZAFIBRATE

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56. BAS/BSCR

DIVERSE BACTERIA PROMOTE MACROPHAGE FOAM CELL FORMATION: POTENTIAL ROLE OF TOLL-LIKE RECEPTOR SIGNALLING PATHWAYS

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