



BRITISH ATHEROSCLEROSIS SOCIETY

*Medical Sciences Teaching Centre / Magdalen College • Oxford, UK
Thursday 22 - Friday 23 March 2007*

Organised by: BAS Committee

CPD approved – 9 credits

SPRING MEETING PROGRAMME – FINAL ANNOUNCEMENT

THE ROLE OF MACROPHAGES IN ATHEROSCLEROSIS

THURSDAY 22 MARCH:

- 09:30 Registration and Refreshments
- 10:00 Introduction and Welcome: *Professor Keith Channon*
- Monocyte-Macrophage Trafficking**
- Chairperson: Dorian Haskard
- 10:00-10:30 **MONOCYTE-ENDOTHELIAL CELL INTERACTIONS**
Dr Ed Rainger
The Medical School, University of Birmingham, Birmingham, UK
- 10:30-10:45 Discussion
- 10:45-11:20 **THE ROLE OF CC AND CX3C CHEMOKINES IN ATHEROGENESIS**
Dr David Greaves
Sir William Dunn School of Pathology, University of Oxford, Oxford, UK
- 11:20-11:35 Discussion
- 11:35-12:10 **USE OF CONFOCAL MICROSCOPY TO IMAGE INTRA-PLAQUE MACROPHAGES**
Professor Linda Curtiss
Department of Immunology, The Scripps Research Institute, La Jolla, California, USA
- 12.10-12:20 Discussion
- 12:20-13:30 Lunch
Poster session (offering an opportunity to discuss work with the authors)
- Macrophage Differentiation and Function**
- Chairperson: Qingbo Xu
- 13:30-13:55 **MONOCYTE AND MACROPHAGE HETEROGENEITY**
Professor Siamon Gordon
Sir William Dunn School of Pathology, University of Oxford, Oxford, UK
- 13:55-14:10 Discussion
- 14:10-14:35 **SCAVENGER RECEPTORS- FRIEND OR FOE?**
Professor Theo Van Berkel
Biopharmaceuticals, Leiden University, Leiden, THE NETHERLANDS
- 14:35-14:50 Discussion
- 14:50-15:00 Comfort break

The organisers reserve the right to change the programme. (Version 19/02/2007)

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P.T.O.

Chairperson: Chris Newman

15:15-16:15

Michael Davies Young Investigator Award Finalist presentations

(The BAS gratefully acknowledges that this Award is made possible by a grant from the British Heart Foundation)

- 15:15-15:25 IGF BINDING PROTEIN 1 PROTECTS AGAINST OBESITY INDUCED INSULIN RESISTANCE AT A WHOLE BODY LEVEL AND IN THE VASCULAR WALL
V Ezzat, J Sethi[†], E Duncan, S Wheatcroft, A Shah, M Kearney[†]
Kings College London, [†]The Leeds Institute for Genetics Health and Therapeutics [‡]University of Cambridge
- 15:25-15:30 Discussion
- 15:30-15:40 CYTOKINE AND TOLL-LIKE RECEPTOR DEPENDENT SIGNALLING IN NEOINTIMAL SMOOTH MUSCLE CELLS
JR Finch^{1,2}, SM Gregan², T Navin², C Monaco², PI Hornick¹
¹BHF Cardiovascular Sciences Group, Imperial College, Hammersmith Campus, London
² Cytokine Biology of Atherosclerosis, Kennedy Institute of Rheumatology, Imperial College London
- 15:40-15:45 Discussion
- 15:45-15:55 SERUM IgM PLAYS AN IMPORTANT PROTECTIVE ROLE IN MURINE ATHEROSCLEROSIS
MJ Lewis¹, TH Malik¹, MR Ehrenstein², JJ Boyle³, M Botto¹, DO Haskard³
¹Rheumatology Section, Imperial College, London; ²Rheumatology Department, University College, London;
³ BHF Cardiovascular Sciences Group, Imperial College, Hammersmith Campus, London
- 15:55-16:00 Discussion
- 16:00-16:10 EXPRESSION AND ACTIVITY OF THE CYSTEINE PROTEASE, LEGUMAIN, IS UP-REGULATED IN UNSTABLE REGIONS OF HUMAN ATHEROSCLEROTIC PLAQUES
KL Mattock¹, K Burnand¹, P Gough², L Patel², C Watts³, P Taylor¹ and A Smith¹
¹Academic Department of Surgery, Cardiovascular Division, KCL School of Medicine, London, UK. ²GSK PLC, Stevenage, UK. ³ Wellcome Trust Biocentre, School of Life Sciences, University of Dundee, Dundee UK.
- 16:10-16:15 Discussion
- 16:15-16:25 SINGLE DOSE ORAL TETRAHYDROBIOPTERIN (BH4) LEADS TO A PROLONGED INCREASE IN AORTIC BH4 LEVELS IN APOE-KO MICE
TS Schmidt, MJ Crabtree, A Hale, NJ Alp
Wellcome Trust Centre for Human Genetics, Department of Cardiovascular Medicine, Roosevelt Drive, Oxford
- 16:25-16:30 Discussion
- 16:30-16:45 Refreshment Break
- Chairperson: Keith Channon
- 16:45-17:45 ASTRAZENECA SPONSORED SYMPOSIUM
- 17:45-18:30 **JOHN FRENCH LECTURE:**
INSULIN AND THE ENDOTHELIUM: FROM DINNERS TO DISEASE
Professor Mark Kearney
Cardiovascular and Diabetes Research, The LIGHT Laboratories, Leeds, UK
- 18:30 Meeting concludes – Day One
- 19:15 Drinks Reception – *Magdalen College*
- 19:45 Conference Dinner and announcement of the winner of the Michael Davies Young Investigator Award

FRIDAY 23 MARCH:

08:45 – 09:30 BAS Annual General Meeting

Chairperson: Philippa Talmud

09:30 – 10:45 **Free Communications**

09:30-09:40 **ENDOTHELIAL OVEREXPRESSION OF NOX2 IN TRANSGENIC MICE POTENTIATES VASCULAR OXIDATIVE STRESS AND THE PRESSOR RESPONSE TO ANGIOTENSIN II**
JK Bendall, D Adlam, R Rinze, AL Tatham, J de Bono, KM Channon
Department of Cardiovascular Medicine, University of Oxford

09:40-09:45 Discussion

09:45-09:55 **TISSUE INHIBITOR OF METALLOPROTEINASES (TIMP)-3 DOWN-REGULATION INCREASES MACROPHAGE FOAM CELL INVASION, PROLIFERATION AND DEATH**
JL Johnson, AC Newby
Bristol Heart Institute, University of Bristol, Bristol, UK

09:55-10:00 Discussion

10:00-10:10 **MONOCYTE/MACROPHAGE SUPPRESSION DIFFERENTIALLY EFFECTS ATHEROGENESIS AND ESTABLISHED PLAQUES**
V Stoneman¹, D Braganza¹, N Figg¹, J Mercer¹, R Lang², M Bennett¹
¹Division of Cardiovascular Medicine, University of Cambridge, UK
²Children's Hospital Research Foundation, Cincinnati, USA

10:10-10:15 Discussion

10:15-10:25 **DELETION OF TUMOUR NECROSIS FACTOR-RELATED APOPTOSIS-INDUCING LIGAND ATTENUATES DEVELOPMENT OF ATHEROSCLEROSIS IN APOE^{-/-} MICE**
V Watt, S Francis, DC Crossman
Cardiovascular Research Unit, University of Sheffield, UK

10:25-10:30 Discussion

10:30-10:40 **ENDOTHELIAL PROGENITOR CELLS, CARDIOVASCULAR RISK FACTORS, CYTOKINES LEVELS AND ATHEROSCLEROSIS-RESULTS FROM A LARGE POPULATION-BASED STUDY**
Q Xiao, S Kiechl, S Patel, F Oberhollenzer, S Weger, A Mayr, B Metzler, M Reindl, Y Hu, J Willeit, Q Xu
Cardiovascular Division (Q.X.; S.P.; Y.H.; Q.X.), King's College London, University of London, London, UK

09:55-10:00 Discussion

10:45-11:15 Refreshment break

Macrophage – VSMC Interactions

Chairperson: Sarah George

11:15-11:35 **VSMC KILLING BY MACROPHAGES**

Dr Joseph J Boyle

BHF Cardiovascular Sciences Group, Imperial College, Hammersmith Campus, London, UK

11:35-11:50 Discussion

Imaging Macrophages

11:50-12:10 **MACROPHAGES AND ATHEROSCLEROSIS: INSIGHTS FROM NOVEL MOUSE MODELS AND IMAGING TECHNIQUES**

Professor Edward Fisher

NYU School of Medicine, New York, USA

12:10-12:25 Discussion

12:25-12:45 **IMAGING MACROPHAGES IN CAROTID ATHEROMA WITH MRI**

Dr Jonathan Gillard

Department of Radiology, University of Cambridge, Cambridge, UK

12:45-13:00 Discussion

13:00 Concluding Remarks: *Professor Keith Channon*

13:15 Close of Meeting and Lunch

Meeting Secretariat:

Wheldon Events & Conferences

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