
'GENETICS OF COMPLEX DISEASES'
- FINAL PROGRAMME -

Organised by: Steve Humphries, Philippa Talmud

CPD Approved – 10 credits

THURSDAY 17 September:

09:00-09:30 Registration, Refreshments and Exhibition - *Conservatory*

10:00 Introduction and Welcome:
Professor Dorian Haskard
Chairman, BAS

GENOME WIDE ASSOCIATION SCANS AND THE CARDIO-METABOLIC CHIP

Chairperson: *Steve Humphries*

10:00-10:30 **INTRODUCTION TO GENETICS**
Peter Farndon
National Genetics Education and Development Centre, Birmingham Women's Hospital, Birmingham, Birmingham, UK

10:30-10:40 Discussion

10:40-11:10 **WHAT HAVE WE LEARNED FROM THE GENOME WIDE SCANS?**
Peter Donnelly
Wellcome Trust Centre for Human Genetics, University of Oxford, UK

11:10 -11:20 Discussion

11:20-11:50 **RESULTS FROM THE CARDIO-METABOLIC CHIP**
Brendan Keating
University of Pennsylvania, USA

11:50-12:00 Discussion

12:00 -13:30 Lunch – *Cripps Dining Hall*

(Options to attend during lunch)

13:00-13:30 (A)
YI POSTER PRESENTATIONS [5x 5min plus questions]
Moderator: *Philippa Talmud*[x1]

(A1)
APOLIPOPROTEIN E (APOE) GENOTYPE AND ISCHAEMIC STROKE: INTEGRATION OF EVIDENCE FROM A LITERATURE BASED META-ANALYSIS AND A PHENOME SCAN OF EFFECTS ON BLOOD LIPIDS AND OTHER BIOMARKERS OF CARDIOVASCULAR RISK
Authors: **APOE Collaboration*
Institutes: *London School of Hygiene & Tropical Medicine, and University College London*

(A2)
A FIELD SYNOPSIS OF PHARMACOGENETIC STUDIES
MV Holmes 1, T Shah 1, C Vickery 1, L Smeeth 2, AD Hingorani 1,3, JP Casas 2.*
Centre for Clinical Pharmacology, Department of Medicine, University College London (UCL).
2. Department of Epidemiology and Population Health, London School of Hygiene and Tropical Medicine.
3. Department of Epidemiology, UCL.

(A3)
ASSOCIATION OF VARIANTS IN CANDIDATE GENES INFLUENCING ELECTROLYTE TRANSPORT AND THE AUTONOMIC NERVOUS SYSTEM WITH BLOOD PRESSURE VARIATION

N McCarthy.(1), C Vangjeli .(1), G Cavaller.(1), N Delanty.(2), E O'Brien.(3), B Harvey.(4), A Stanton (1).*

(1) Dept. of Molecular and Cellular Therapeutics; (4) Dept. of Molecular Medicine; Royal college of Surgeons in Ireland, Smurfit Building, Beaumont Hospital, Dublin 9

(2) Beaumont Hospital, Dublin 9

(3) Conway Institute of Biomolecular and Biomedical Research, University College Dublin, Belfield, Dublin 4

(A4)
ASSOCIATION OF TELOMERE LENGTH WITH TYPE 2 DIABETES, OXIDATIVE STRESS AND UCP2 GENE VARIATION

KD Salpea1, P J Talmud1, JA Cooper1, CG Maubaret1, K Abelak1, JW Stephens2, SE Humphries1

1Centre for Cardiovascular Genetics, Division of Medicine, University College London, London, UK,

2Diabetes Research Group, Institute of Life Sciences, Swansea University, Swansea, UK

(A5)
ANGPTL4 E40K AND T266M: EFFECTS ON PLASMA TRIGLYCERIDE AND HDL LEVELS, ANGPTL4 LEVELS AND CHD RISK

MC Smart, C Ehnholm, M Jauhiainen, M Robciuc, JA Cooper, F Drenos, SE Humphries, PJ Talmud.*

Division of Cardiovascular Genetics, Department of Medicine, University College London, UK. (M.C.S.,

J.A.C., F.D., P.J.T, S.E.H.)

Public Health Genomics Unit, National Institute for Health and Welfare, Helsinki, Finland. (M.R.)

Department of Molecular Medicine, National Public Health Institute, Helsinki, Finland. (C.E, M.J)

OR

13:00-13:30

(B)
MEET THE EXPERTS: GENE ONTOLOGY

Ruth Lovering – UCL, London, UK

Emily Dimmer – EBI, Cambridge, UK

13:30-15:15

PARALLEL WORKSHOPS:

**Workshop 1:
NOVEL GENES DETERMINING QUANTITATIVE TRAITS**

Chairperson: Philippa Talmud

13:30-13:50 **DEFINING THE SPECTRUM OF ALLELES THAT CONTRIBUTE TO POLYGENIC DYSLIPIDEMIA**

Sekar Kathiresan

Broad Institute, Boston, USA

13:50-14:00 Discussion

14:00-14:20 **GENETICS OF CHD**

Nilesh Samani

University of Leicester, Leicester, UK

14:20-14:30 Discussion

14:30-15:15 **Free communications (x3)**

14:30 – 14:40

COMMON GENETIC VARIANTS ASSOCIATED WITH HIGHER Lp(a) CONCENTRATIONS AND INCREASED RISK OF CORONARY HEART DISEASE

R Clarke1, JF Peden2, JC Hopewell1, A Goel2, T Kyriakou2, SC Heath3, S Parish1, S Barlera4, MG Franzosi4, S Rust5, U Seedorf5, D Bennett1, A Silveira6, A Malarstig6, FR Green7, M Lathrop3, A Hamsten6+, R Collins1+, H Watkins2+, M Farrall2+ on behalf of the PROCARDIS Consortium.*

14:40-14:45

Discussion

14:45-14:55

CAD RELATED VARIATION ON CHROMOSOME 10q11 IS ASSOCIATED WITH CIRCULATING SDF-1ALPHA LEVEL AND CAROTID INTIMA-MEDIA THICKNESS AND ATHEROSCLEROSIS

S Kiechl, RC Laxton, Q Xiao, J Willeit, Q Xu, S Ye*

Department of Neurology, Medical University Innsbruck, Innsbruck, Austria (SK and JW);

William Harvey Research Institute, Barts and The

**Workshop 2:
NOVEL SEQUENCING AND CNV DETERMINATION METHODS**

Chairperson: Patsy Munroe

13:30-14:00 **Illumina sponsored speaker: CHARACTERISING STRUCTURAL VARIATION IN CANCER**

Phil Stevens

Cancer Genome Project, The Sanger Centre, Cambridge, UK

14:00-14:10 Discussion

14:10-14:40 **Roche sponsored speaker:**

Mark Droege

Roche Applied Science, Penzance, GERMANY

14:40-14:50 Discussion

14:50-15:15 **MAPPING THE GENETIC COMPONENTS OF COMPLEX DISEASES BY SEQUENCING**

Jun Wang

Beijing Genome Institute, Beijing, CHINA

London School of Medicine and Dentistry, London,
U, (RCL and SY); King's BHF Centre, King's
College London, London, UK (QX and QX)

14:55-15:00
Discussion

15:00-15:10
**GPIHBP1 VARIANTS CONTRIBUTE TO LIPID
LEVELS IN FAMILIAL COMBINED
HYPERLIPIDEMIA**
HE Ringham(1,2), MM Town(2), SD Horswell(2),
CC Shoulders(1,2)*
1) Genomic and Molecular Medicine Group,
Centre for Endocrinology, William Harvey
Research
Institute, Charterhouse Square, London.
2) MRC Clinical Sciences Centre, Hammersmith
Hospital, London, UK

15:10-15:15
Discussion

15:15-15:45 Refreshments and Exhibition – *Conservatory*

Chairperson: Patsy Munroe

15:45 -16:05 **COPY NUMBER VARIATION AND COMPLEX DISEASES**
Alex Blakemore
Imperial College, London, UK

16:05-16:15 Discussion

16:15-16:35 **PHARMACOGENETICS – CURRENT STATUS AND FUTURE PROSPECT**
Magnus Ingelman-Sundberg
Karolinska Institute, Stockholm, SWEDEN

16:35-16:45 Discussion

Chairperson: Aroon Hingorani

16:45-17:30 **DEBATE:**
THIS HOUSE BELIEVES THAT GENETIC TESTING FOR CVD HAS CLINICAL UTILITY

16:45-16:55 **CON:** *Tom Dent* – *University of Cambridge, UK*
16:55-17:05 **PRO:** *Steve Humphries* – *UCL, London, UK*
17:05-17:20 Discussion
17:20-17:30 Summing up

17:30-17:45 Comfort break

Chairperson: Dorian Haskard

17:45-18:45 **HUGH SINCLAIR LECTURE:**
Leena Peltonen
Sanger Centre, Cambridge, UK

18:45 Meeting concludes day one

19:00-19:45 Drinks Reception and Poster viewing

(1)
GENE EXPRESSION PROFILING IN MONONUCLEAR CELLS DEMONSTRATES UP-REGULATION OF PRO-INFLAMMATORY
AND ADHESION RELATED GENES CORONARY ARTERY DISEASE
C Delles, MU Moreno, C Taurino, U Neisius, WM Miller, JD McClure, MW McBride, AF Dominiczak*
BHF Glasgow Cardiovascular Research Centre, University of Glasgow, UK

(2)
RISK PREDICTION IN CORONARY HEART DISEASE AND OTHER CONDITIONS: CURRENT UNCERTAINTIES AND FUTURE
OPPORTUNITIES
THS Dent and CF Wright*
PHG Foundation, Strangeways Research Laboratory, Worts Causeway, Cambridge UK

- (3)
AN AID TO THE PROMOTION OF HEALTH: HOW TO CONVERT RELATIVE RISK INTO 'EXPECTED DIFFERENCE IN LIFESPAN'
*F Drenos*1+3, N Brouard2, TBL Kirkwood3*
1Centre for Cardiovascular Genetics, BHF Laboratories, Division of Medicine, University College London Rayne Building, 5 University St, London UK
2Institut national d'études démographiques (INED), Mortality, Health and Epidemiology Unit, 133 Boulevard Davout, Paris, FRANCE
3School of Clinical Medical Sciences – Gerontology, Institute for Ageing and Health, Newcastle University, Newcastle upon Tyne, UK
- (4)
THE COMMON FUNCTIONAL ARG399GLN VARIANT IN THE DNA REPAIR ENZYME XRCC1 IS ASSOCIATED WITH ELEVATED LEVELS OF MICRONUCLEUS CHROMOSOMAL DNA DAMAGE AND SHORTER TELOMERE LENGTH IN PATIENT WITH ATHEROSCLEROSIS
C Federici1,2, , S Manfredi1, M Del Fiandra1, K Salpea3, C Maubaret3, SE Humphries3, MG Andreassi1*
(1) G. Pasquinucci Hospital, Institute of Clinical Physiology, Massa, Italy.
(2) The Sant'Anna School of Advanced Studies, Pisa, Italy
(3) Centre for Cardiovascular Genetics, British Heart Foundation Laboratories, Royal Free and University College Medical School London, UK
- (5)
CORONARY ARTERY DISEASE SUSCEPTIBILITY LOCUS ON CHROMOSOME 9P21
LD Beeton, B Burch, K Russell, S Salvage, P Chivers, KE Webb, FR Green for PROCARDIS*
Faculty of Health & Medical Sciences, University of Surrey, Guildford, UK
- (6)
LRP5 VARIANTS ARE ASSOCIATED WITH TRIGLYCERIDE LEVELS AND TYPE 2 DIABETES
M Guardiola, G Ken-Dror, SE Humphries, PJ Talmud.*
Centre for Cardiovascular Genetics, Department of Medicine, University College of London, UK.
- (7)
PHARMACOGENETICS OF STATIN TREATMENT: IMPACT OF APOA5, APOE, CYP7A1 AND HEPATIC LIPASE VARIANTS
JA Hubáček1,2,3, , V Adámková1, R ěška3, M Vrablík3*
1Institute for Clinical and Experimental Medicine, 2Center for Cardiovascular Research, 3Charles University and General Teaching Hospital, Prague, CZECH REPUBLIC
- (8)
FTO POLYMORPHISM IS ASSOCIATED WITH MYOCARDIAL INFARCTION
JA Hubáček1,2, , V Adámková1, V Staník1, R Poledne1,2 M Aschermann3, J Matoušková4, M Pinička5, J Veselka6, J Pi ha1,2*
1Institute for Clinical and Experimental Medicine, 2Centre for Cardiovascular Research, Hospitals 3General University H., 4Na Homolce, 5Královské Vinohrady, 6Motol; Prague; CZECH REPUBLIC
- (9)
LOCAL POLYMORPHISMS INFLUENCE STK39 GENE EXPRESSION BUT ARE NOT ASSOCIATED WITH BLOOD PRESSURE
C Kay, MS Cunningham, P Avery, M Santibanez-Koref, B Keavney*
Newcastle University, Institute of Human Genetics, Newcastle upon Tyne, UK
- (10)
-203A/C POLYMORPHISM OF CHOLESTEROL 7ALPHA-HYDROXYLASE (CYP7A1) GENE AND DIURNAL VARIATION IN CYP7A1 ACTIVITY
J Kovar (1,2), M Zimolova (1,2), M Lenicek (3), L Vitek (3), M Jirsa (1), R Poledne (1,2)
(1) Institute for Clinical and Experimental Medicine, Prague, CZECH REPUBLIC,
(2) Centre of Cardiovascular Research, , Prague, CZECH REPUBLIC,
(3) 1st Faculty of Medicine, Charles University, Department of Clinical Biochemistry and Laboratory Diagnostics , Prague, CZECH REPUBLIC
- (11)
PRO-PROTEIN CONVERTASE SUBTILISIN / KEXIN TYPE9 (PCSK9) VARIANT DATABASE: PRELIMINARY ANALYSIS
S.E. Leigh, T. Jakubcova, R.A. Whittall, S.E. Humphries*
Centre for Cardiovascular Genetics, British Heart Foundation Laboratories, The Rayne Building, Royal Free & University College London Medical School, 5 University Street, London UK
- (12)
DOWN-REGULATION OF ACE EXPRESSION IN HUVECS USING siRNA RESULTS IN DOWN-REGULATION OF UCP2 EXPRESSION: A POTENTIAL MECHANISM OF THE CLINICAL BENEFIT OF ACE-INHIBITORS?
C.G. Maubaret1, R.Heads2, S. Dhamrait3, H. Montgomery4 and S.E. Humphries1*
1 Centre for Cardiovascular Genetics, University College London (UCL), London, UK
2 King's College London School of Medicine, Department of Cardiology, London UK
3 Department of Cardiology, London Chest Hospital, Barts and The London NHS Trust, London, UK
4 Institute for Human Health and Performance, UCL, London UK
- (13)
CO-SEGREGATION OF EL AND HL VARIANTS WITH HIGH PLASMA HDL-C LEVELS IN FAMILIES WITH HYPERALPHALIPOPROTEINEMIA
MM Motazacker, AG Holleboom, R Franssen, J Azevedo, GK Hovingh, JJP Kastelein, JA Kuivenhoven*
Department of Vascular Medicine, Academic Medical Center, Amsterdam, THE NETHERLANDS
- (14)
GENOTYPES AT MATRIX METALLOPROTEINASE (MMP) LOCI FOR MMP7, MMP9 AND MMP12 ARE ASSOCIATED WITH CAROTID INT AND PRESENCE OF PLAQUES
A. Panayiotou1, N. Georgiou2, M.Griffin2, D.Bond2, T.Tyllis2, S. E Humphries3, A.N. Nicolaidis1,2.*
1. Department of Biological Sciences, University of Cyprus, Nicosia, CYPRUS.
2. Vascular Screening and Diagnostic Center, Nicosia, CYPRUS.
3. Department of Medicine, Centre for Cardiovascular Genetics, UCL, London, UK

(15)
IDENTIFICATION OF GENES ASSOCIATED WITH QT INTERVAL USING THE 50K CARDIO-METABOLIC SNP CHIP:
RESULTS FROM THE WHITEHALL II STUDY
S Shah^{1*}, *F Drenos*², *T Shah*³, *J Palmen*², *C Vezzili*⁴, *R Sofat*³, *M Kumari*⁵, *M Kivimaki*⁵, *J Pallas*⁶, *P MacFarlane*⁷, *J Whittaker*⁴, *PJ Talmud*², *SE Humphries*² and *AD Hingorani*^{3,5}
¹*UCL Genetics Institute, Department of Genetics, Environment and Evolution, Gower St, London*
²*Division of Cardiovascular Genetics, Department of Medicine, Royal Free and University College Medical School, 5 University St, London UK;*
³*Centre for Clinical Pharmacology, British Heart Foundation Laboratories at UCL, London UK*
⁴*Department of Epidemiology and Population Health, London School of Hygiene and Tropical Medicine, London, UK;*
⁵*Department of Epidemiology and Public Health, UCL, London*
⁶*WIBR, UCL London*
⁷*Division of Cardiovascular & Medical Sciences, Gardiner Institute, Western Infirmary, Glasgow,*

(16)
CONSIDERATION OF ETHNICITY IN CORONARY RISK PREDICTION USING CRP
T Shah^{*(1)}, *P Newcombe*⁽²⁾, *J Addo*⁽²⁾, *JP Casas*⁽²⁾, *L Smeeth*⁽²⁾, *J Whittaker*⁽²⁾, *A Hingorani*⁽¹⁾
⁽¹⁾*Depts. Medicine and Epidemiology, UCL, (2)LSHTM*

(17)
THE KIF6 719ARG ALLELE IS ASSOCIATED WITH INCREASED RISK OF CORONARY HEART DISEASE AMONG MALES IN THE WELCOME TRUST CASE CONTROL CONSORTIUM STUDY OF CORONARY HEART DISEASE
D Shiffman^{*}; *Celera, Alameda, CA 94502 USA*
CM Rowland; *Celera, Alameda, CA 94502 USA*
J Thompson; *Department of Cardiovascular Sciences, University of Leicester, Leicester, UK*
AS Hall; *Leeds Institute of Genetics, Health and Therapeutics (LIGHT), University of Leeds, Leeds, LS1 3EX, UK*
JJ Devlin; *Celera, Alameda, CA 94502 USA*
NJ Samani; *Department of Cardiovascular Sciences, University of Leicester, Leicester, UK*

(18)
DIFFERENTIAL EFFECTS OF RADIAL ARTERY INJURY AND LIMB ISCHAEMIA ON CIRCULATING CD133+/CD34+ PROGENITOR CELLS
**LM Tilling, MV Holmes, A Verma*
Department of Clinical Pharmacology, Kings' College London
St Thomas' Hospital, Lambeth Palace Road, London UK

(19)
HEPATIC GENE EXPRESSION IN PRAGUE HEREDITARY HYPERCHOLESTEROLEMIC (PHHC) RAT
M. Zimolova^{*(1,2)}, *J. Kovar*^(1,2), *R. Bohuslavova*^(1,2), *V. Stranecky*⁽³⁾, *R. Ivanek*⁽⁴⁾, *M. Jirsa*⁽¹⁾, *R. Poledne*^(1,2)
¹*Institute for Clinical and Experimental Medicine, Prague, Czech Republic*
²*Centre of Cardiovascular Research, Prague, Czech Republic*
³*Institute of Inherited Metabolic Disorders, 1st Faculty of Medicine, Charles University, Prague, CZECH REPUBLIC*
⁴*Institute of Molecular Genetics, Academy of Sciences, Prague, CZECH REPUBLIC*

19:45 Conference dinner

FRIDAY 18 SEPTEMBER:

07:30–08:30 Breakfast – *Cripps Dining Hall*

08:15 Registration opens

GENETICS OF COMPLEX DISEASE

Chairperson: Anna Dominiczak

08:45–09:15 **GENETICS OF T2D**
Philippe Froguel
Imperial College, London, UK

09:15-09:25 Discussion

09:25-09:55 **NOVEL GENES DETERMINING BLOOD PRESSURE**
Mark Caulfield
Barts and The London School of Medicine, London, UK

09:55-10:05 Discussion

10:05-10:35 **APPLIED AND TRANSLATIONAL CARDIOVASCULAR GENOMICS**
Aroon Hingorani
UCL, London, UK

10:35-10:45 Discussion

11:15-12:45

PARALLEL WORKSHOPS:**Workshop 3:
NOVEL MOLECULAR METHODS IN DETERMINING SNP
FUNCTIONALITY***Chairperson: Manuel Mayr*

- 11:15-11:35 **NOVEL STRATEGIES TO DETERMINE
GENE FUNCTION**
Edison Liu
*Genome Institute of Singapore,
SINGAPORE*
- 11:35-11:45 Discussion
- 11:45-12:05 **MODELING THE MOLECULAR CIRCUITS
OF METABOLIC DISEASE**
Eric Schadt
Rosetta Inpharmatics, Seattle, USA
- 12:05-12:15 Discussion
- 12:15-12:45 **Free communications (x2)**
- 12:15 – 12:25
**ANRIL, THE NON CODING RNA PRESENT IN
THE CHROMOSOME 9 CAD ASSOCIATED
LOCUS, HAS MULTIPLE SPLICE
VARIANTS AND A POTENTIAL REGULATORY
ROLE IN CDKN2B EXPRESSION.**
T Kyriakou, A Pal, J Peden, F Green, A Gloyn, M
McCarthy, H Watkins.*
- 12:25 – 12:30
Discussion
- 12:30-12:40
**FUNCTIONAL ANALYSIS OF REGULATORY
LPL SNPS**
AJP Smith, F Drenos, J Palmen, W Putt, PJ
Talmud, SE Humphries.*
*Centre for Cardiovascular Genetics, University
College London, 5 University Street, London, UK*
- 12:40 – 12:45
Discussion

**Workshop 4:
STATISTICAL ANALYSIS OF MULTIPLE SNP DATA***Chairperson: Aroon Hingorani*

- 11:15-11:35 **PREDICTING PHENOTYPE FROM GWAS
DATA**
David Balding
Imperial, London, UK
- 11:35-11:45 Discussion
- 11:45-12:05 **BAYESIAN METHODS FOR THE
ANALYSIS OF ASSOCIATION STUDIES**
John Whittaker
GSK/ LSTHM, London, UK
- 12:05-12:15 Discussion
- 12:15-12:45 **Free communications (x2)**
- 12:15 – 12:25
**ASSOCIATION STUDY OF CORONARY ARTERY
DISEASE (CAD) USING HUMANCVD 50K CHIP**
*Goel A*2, Clarke R1, Hopewell JC1, Kyriakou T2,
Heath SC3, Parish S1, Barlera S4, Franzosi MG4,
Rust
S5, Bennett D1, Silveira A6, Malarstig A6, Green
FR7, Lathrop M3, Gigante B8, Leander K8, Faire
U8,
Seedorf U5, Hamsten A6, Collins R1, Watkins H2,
Farrall M2, Peden JF2 on behalf of the PROCARDIS
Consortium*
1. *Clinical Trial Service Unit and
Epidemiological Studies Unit, University of Oxford,
Oxford, UK*
 2. *Department of Cardiovascular Medicine and
the Wellcome Trust Centre for Human Genetics,
University of Oxford, Oxford, UK*
 3. *Centre National de Genotypage, Institut
Genomique, Commissariat à l'énergie Atomique,
Evry, France*
 4. *Department of Cardiovascular Research,
Istituto di Ricerche Farmacologiche 'MarioNegri',
Milan,
Italy*
 5. *Leibniz-Institut für Arterioskleroseforschung
an der Universität Münster, Münster, Germany*
 6. *Atherosclerosis Research Unit, Department
of Medicine, Karolinska Institutet, Stockholm,
Sweden*
 7. *Division of Biochemical Sciences, Faculty of
Health and Medical Sciences, University of Surrey,
UK*
 8. *Division of Cardiovascular Epidemiology,
Institute of Environmental Medicine, Karolinska
Institutet, Stockholm, Sweden.*
- 12:25 – 12:30
Discussion
- 12:30-12:40
**ASSOCIATION BETWEEN FTO
POLYMORPHISM, ADIPOSITY PEAK AND
ADIPOSITY REBOUND IN THE NORTHERN
FINLAND BIRTH COHORT 1966**
U Sovio 1, NJ Timpson 2,3, NM Warrington 4, L
Briollais 5, D Mook-Kanamori 6, M Kaakinen 7,8,
AJ
Bennett 9, J Molitor 1, MI McCarthy 2,9,10, M-R
Jarvelin 1,7,8,11*
- 1 *Department of Epidemiology and Public Health,
Imperial College London, Norfolk Place, London W2
1PG, UK*
 - 2 *Wellcome Trust Centre for Human Genetics,
University of Oxford, Oxford, UK*
 - 3 *The MRC Centre for Causal Analyses in*

Translational Epidemiology, Bristol University,
Bristol, UK
4 Centre for Genetic Epidemiology and
Biostatistics, The University of Western Australia,
Australia
5 Samuel Lunenfeld Research Institute, Mount
Sinai Hospital, Toronto, Canada
6 Erasmus Medical Center, Rotterdam, the
Netherlands
7 Institute of Health Sciences, University of Oulu,
Oulu, Finland
8 Biocenter Oulu, University of Oulu, Oulu, Finland
9 Oxford Centre for Diabetes, Endocrinology and
Metabolism, University of Oxford, Oxford, UK
10 Oxford NIHR Biomedical Research Centre,
Churchill Hospital, Oxford, UK
11 Department of Child and Adolescent Health,
National Public Health Institute, Oulu, Finland

12:40 – 12:45
Discussion

Chairperson: *Steve Humphries*

12:45–13:15

**CLOSING PRESENTATION:
CARDIOVASCULAR DISEASE AND SYSTEMS MEDICINE**

Anna Dominiczak

BHF Glasgow Cardiovascular Research Centre, Glasgow, UK

13:15

Concluding remarks:
Steve Humphries

13:20 -14:20

Lunch – *Cripps Dining Hall*

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