

Texas – United Kingdom Collaborative Research Initiative: Cardiology Workshop.



Houston, 29th and 30th April 2004

Background and Aims:

A workshop focusing on Cardiology will be held in **Trevisio** which is located on the **top floor of the John P. McGovern Texas Medical Center Commons Building, Texas Medical Center, Houston on April 29 and 30, 2004**. Information on access to and parking at Trevisio are available at www.trevisiorestaurant.com/directions.asp. If you park there bring your parking ticket with you for validation.

The aims of the workshop are:

- To enable researchers from the ten participating institutions in Texas and their colleagues from the UK to showcase relevant research activities.
- To allow researchers to network with colleagues and explore collaborative opportunities.

The overall outcomes should be:

- The development of collaborative relationships between researchers in the UK and in Texas.
- The exploration of novel opportunities for collaboration across disciplines.
- The sharing of emerging results.
- The provision of access to specialist equipment and facilities.

Cardiology: Cardiovascular Inflammation – Detection and Treatment and Stem Cell Therapies for Cardiovascular Disease.

April 29, 2004

Cardiovascular Inflammation: Detection and Treatment

Moderator: Dr. Edward Yeh, UT MD Anderson Cancer Center

7.45 am	Continental Buffet Breakfast
8.30am	Welcome Dr. James Willerson, UTHSC – Houston
8.40am	'Imaging atherosclerotic plaque inflammation in vivo by [¹⁸ FDG] PET' Professor P.L. Weissberg, University of Cambridge
9.00am	'Near-infrared fluorescence microscopy of single-walled carbon nanotubes in macrophages' Professor Bruce Weisman, Rice University

- 9.20am 'High-throughput identification of mouse models of congenital cardiopulmonary malformations using magnetic resonance imaging'
Dr. Shoumo Bhattacharya, University of Oxford
- 9.40am 'CRP: the old and the new in vascular inflammation'
Dr. Paolo Calabro, Institute of Molecular Medicine, UTHSC-Houston
- 10.00am 'Neointima formation and plaque instability'
Professor Andrew Newby, University of Bristol
- 10.20am 'Computational fluid dynamics – a tool for assessing aneurysm risk?'
Dr. Ralph Metcalf, University of Houston

10.40am Refreshment Break

Moderator: Professor Keith Fox, Edinburgh

- 11.10am 'Genetic variations and coronary heart disease'
Dr. Shu Yeh, University of Southampton
- 11.30am 'Reversal and attenuation of cardiac phenotypes in cardiomyopathies'
Dr. A. J. Marian, Baylor College of Medicine
- 11.50am 'Identification of unknown mutations in the unselected population: receptor diversity and disease risk'
Professor Ian Day, University of Southampton
- 12.10pm 'Gene therapy for post angioplasty restenosis'
Professor A.M. Heagerty, University of Manchester
- 12.30pm Lunch** followed by the Introduction of two Marshall Commemorative Scholars by The Honorable Iain Murray, HM Consul General, Houston

Moderator: Professor P.L. Weissberg, Cambridge

- 1.30pm 'Human cardiac development'
Professor David Wilson, University of Southampton
- 1.50pm 'Modelling atherogenesis'
Professor Jay Walton, Texas A&M University
- 2.10pm 'Modelling growth and adaptation of the arterial wall'
Dr. Laura Ritter, Texas A&M University
- 2.30pm 'Expression of death receptors in the microvasculature'
Dr. John Bradley, University of Cambridge
- 2.50pm 'Regulation of cell death in the vasculature'
Professor Martin Bennett, University of Cambridge

3.10pm 'Ventricular arrhythmias: in vivo and in vitro rat models'
Dr. Hugh Clements-Jewry, King's College, London

3.30pm 'Myocardial p38-MAPK activation and its consequences'
Professor Mike Marber, King's College, London

3.50pm Refreshments

Moderator: Dr. Samuel Ward Casscells, UTHSC - Houston

4.20pm 'Integrative physiology of the sarcolemmal calcium pump in the heart'
Professor Ludwig Neyses, University of Manchester

4.40pm 'Prostacyclin is involved in atorvastatin-induced myocardial protection against ischemia'
Professor Yochai Birnbaum, UTMB Galveston

5.00pm 'Mechanical effects on heart rhythm: from pipette to patient'
Dr. Peter Kohl, University of Oxford

5.20pm 'A model of myocardial infarction in the rabbit: *in vivo* and *in vitro* studies that suggest novel drug targets'
Professor Godfrey Smith, University of Glasgow

5.40pm Reception

6.30pm Dinner

April 30, 2004

Heart Failure and Stem Cell Therapies for Cardiovascular Disease:

Moderator Dr. Denton A. Cooley, Houston

7.30am Continental Buffet Breakfast

8.00am 'Heart failure: A failure of energetics'
Professor Kieran Clarke, University of Oxford

8.20am 'Stem cells in atherosclerosis'
Professor Qingbo Xu, St. George's Hospital Medical School

8.40am 'Both cell fusion and trans-differentiation account for the transformation of human peripheral blood stem cells into cardiomyocytes'
Professor Ed. Yeh, UT MD Anderson Cancer Center

- 9.00am 'The role of stem cells in the pathogenesis and treatment of cardiovascular disease'
Dr. Yong-Jian Geng, UTHSC-Houston
- 9.20am 'The cellular mechanisms of cardiac repair – new concepts'
Professor Mark Entman, Baylor College of Medicine
- 9.40am 'Stem cells in the clinic'
Professor James Willerson, UTHSC-Houston
- 10.00am 'Specification of cardiovascular lineages'
Professor Robert Schwartz, Baylor College of Medicine
- 10.20am Refreshment Break**
- Moderator: Professor Ludwig Neyses, Manchester**
- 10.40am 'Modulation of cardiac fibroblast function by statins: Inhibition of adverse remodelling'
Dr. Karen Porter, University of Leeds
- 11.00am "Learning from telomerase for cardiac repair"
Professor Michael Schneider, Baylor College of Medicine
- 11.20am "Regulation of vascular progenitor cells in cardiovascular complications"
Dr. Jie Du, University of Texas Medical Branch, Galveston
- 11.40am 'Anti-thrombotic approaches in acute coronary syndromes'
Professor Keith Fox, University of Edinburgh
- 12.00pm 'Role of nanotechnology in novel stent designs'
Dr. Devang Patel, UTHSC – San Antonio
- 12.20pm Cardiac Inflammation
Professor Samuel Ward Casscells, UTHSC - Houston
- 12.40pm Lunch**