

The Molecular Signature of Cancer- From Bench to Clinic and Back again

St Anne's College, University of Oxford

12-14 January 2006

Co-Hosted by



Background and Aims:

In association with the **National Translational Cancer Research Network (NTRAC)** in Oxford, a workshop focusing on Oncology will be held at St. Anne's College, University of Oxford, on 12-14 January 2006.

The aims of the workshop are:

- To enable researchers from 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.
- To explore the opportunities for larger, multi institutional collaborations aimed at accelerating the passage of new solutions through the clinic.

The overall outcomes should be:

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

The Workshop will focus on five key areas:

1. Basic Research
2. Clinical Research
3. Imaging/Diagnostics/Detection
4. Nanotechnology and Cancer
5. Translation

For additional information on both the Programme and this event, please visit www.uspartneruk.com or contact Margaret Parton, Programme Manager, on 07748 115404

Programme

Wednesday 11 January

- Morning Texas Delegates arrive at Gatwick and proceed to the Malmaison Hotel, Oxford
- 7.00 pm Informal Buffet dinner at the Malmaison Hotel for UK and Texas Delegates

Thursday 12 January

- 9.00 am Coffee and Registration at St Anne's College, Woodstock Rd, Oxford
- 9.15 am Welcome and Opening remarks
Dr. Martin Anthony, Deputy Director DTI Bioscience Unit

Welcome by **Professor David Kerr, NTRAC**
- 9.30 am **Session 1 - Basic Scientific Research**

Chair: David Kerr University of Oxford

Edward Yeh University of Texas Health Science Center-Houston
"Role of Sumoylation in the Development of Prostate Cancer"

Terry Lappin Queens University Belfast
"The Pathophysiology of HOX Genes and their Role in Cancer"

Michael White University of Texas Southwestern Medical Center at Dallas
"Molecular Linchpins in the Tumorigenic Platform"

Farzin Farzaneh Kings College, London
"High Titre Retro-/lenti-virus Vectors for Functional Analysis of the Genome"
- 11.00 am Refreshment Break
- 11.30 am **Sue Naylor University of Texas Health Science Center-San Antonio**
"Array CGH Analysis of Prostate Tumors"

Shaun Thomas Kings College, London
"Identifying Protein Networks that Regulate Cell Cycle Transitions"

**Brad Thompson University of Texas Medical Branch,
Galveston**
"Gene Array Analysis of Clonal Leukemic Cells' Response to
Glucocorticoids"

Colin McGuckin University of Newcastle
"Adult Stem Cells – a Therapy for Cancer?"

1.00 pm LUNCH

1.45 pm **Stephan Feller University of Oxford**
"Cell Signalling and Cancer"

**Michael McPhaul University of Texas Southwestern Medical
Center at Dallas**
"Mediators and Modifiers of Androgen Action"

Chris Boshoff University College, London
"Mesenchymal Stem Cells and Cancer"

Yuriy Fofanov University of Houston
"Microarray Experiments in Cancer Research: Biological Variation
vs. Technical Variation"

3.05 pm Refreshment Break

3.20 pm **Session 2 - Clinical Research**

**Chair: Brad Pollock University of Texas Health Science
Center- San Antonio**

Jeff Chang University of Houston
"Genomic Approach in Hematologic Malignancies"

David Kerr University of Oxford
"Targeted Macromolecular Delivery for Cytotoxic Drugs"

Hilary Calvert University of Newcastle
"DNA Repair Inhibitors in Cancer Treatment"

Powel Brown Baylor College of Medicine
"Novel Strategies for the Prevention of Breast Cancer"

Brad Pollock University of Texas Health Science Center- San Antonio

“Etiologic Factors for HIV-Associated Pediatric Malignancies”

Hani Gabra Imperial College, London

"Molecular Signatures and Functional Genomics for Clinical Platinum Resistance in Ovarian Cancer"

5.30 pm End of session

6.30 pm Return to Hotel- Evening free in Oxford

Friday 13 January

9.00 am Coffee at St Anne's College

9.15 am **Session 3 - Imaging Diagnostics and Detection**

Chair:

John Zhang University of Texas at Austin

"Micromachined Scanning Confocal Optical Microscope for In Vivo Molecular Imaging of Cancer"

Charles Coombes Imperial College, London

“Minimal Residual Disease Detection and Sequencing Adjuvant Therapy in Breast Cancer”

Mia Markey University of Texas at Austin

"Analysis of Noise in MALDI-TOF Mass Spectrometry"

Graham Ball Nottingham Trent University

“Identification and Characterisation of Diagnostic Biomarkers in Cancer using Artificial Neural Network Based Computational Informatics”

Mahvash Tavassoli Kings College, London

"Development of Thioaptamers as Products for Therapy and Diagnosis of Cancer"

11.00 am Refreshment Break

- 11.30 am **Pat Price University of Manchester**
"PET for Oncology Drug Development"
- Adrian Hayday Kings College, London**
"Dealing with Immuno-evasion by Tumours"
- 1.00 pm LUNCH
- 2.00 pm **Session Four - Nanotechnology and Cancer**
Chair: Peter Dobson University of Oxford
Jason Hafner Rice University
"Gold Nanorods and Nanostars for Localized Surface Plasmon Resonance Biosensing"
Jamal Zweit University of Manchester
"Developments in Molecular Targeting, Nanotechnology and Multi-Modality Imaging to study Cancer Biology and Therapeutics"
- 3.00 pm Refreshment Break
- 3.30 pm **Kostas Kostarelos School of Pharmacy, University of London**
"Engineering Nanoparticle-based Delivery Systems of Atomic Nanogenerators for Tumor Cell-Targeted Radiation Dose Deposition"
Ken Meissner Texas A&M University
"Colloidal Semiconductor Quantum Dots in Cancer Research"
Len Seymour University of Oxford
"Nanotechnology for Oncology at the Interface of Virology and Chemistry"
- 4.30 pm **Session Five - Research Translation**
Chair: Bob Bast UT MD Anderson Cancer Center
Ashok Venkitaraman University of Cambridge
"Blocking the Replication of Cancer Cells"
Steffi Oesterreich Baylor College of Medicine
"Estrogen Receptor Corepressors - Role in Hormone Response and Breast Cancer Development and Progression"

Garth Powis UT MD Anderson Cancer Center
"Stress Signaling Targets in Cancer - Basic and Translational Studies"

Nick La Thangue University of Oxford
"HDAC Inhibitors and Cancer"

5.30 pm End of session

6.30 pm Reception and Conference Dinner- Venue TBA

Saturday 14th January

9.00 am Coffee at St Anne's College

9.15 am **Research Translation Continues**

Carlos Caldas University of Cambridge
"Tailoring Breast Cancer Treatment Based on Tumour Biology"

Mark Evers University of Texas Medical Branch, Galveston
"Novel Strategies for the Treatment of Colorectal Cancer Based on Inhibition of PI3K/Akt Pathway Components"

Clive Stanway Cancer Research Technology
"Collaborative Development of Cancer Research in Drug Discovery and Biological Therapy"

Nick Lemoine Barts
"Targeting Oncolytic Virotherapy for Cancer"

11.10 am Refreshment break

11.30 am **Bob Bast UT MD Anderson Cancer Center**
"Translational Research in the SPORE Programs at UT MD Anderson Cancer Center"

Johann De Bono Marsden/ICR
"Prostate Cancer Targets, Drugs and Endpoints"

12.30 pm Lunch and finish of workshop