

Molecular and Cellular Biology of Cancer Course 2007

Day 1 - Monday 19<sup>th</sup> February**Molecular Mechanisms of Cancer Invasion and Metastasis**

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| 08:30 – 09:00 | Registration                              | Coffee and Tea   |
| 09:00 – 09:10 | Welcome                                   | <b>Professor El-Nasir Lalani, Professor Philip Johnson, Professor Lawrence Young</b><br>Division of Cancer Studies<br>University of Birmingham |
| 09:10 – 09:55 | Global Cancer Perspective                 | <b>Professor Karol Sikora</b><br>Faculty of Medicine, Imperial College<br>Hammersmith Hospital Campus, London                                  |
| 09:55 – 11:00 | Clinical Pathological Conference          | <b>Chaired by TBC</b><br>Faculty of Medicine, Imperial College<br>Hammersmith Hospital Campus, London  |
| 11:00 – 11:30 | <b>REFRESHMENTS</b>                       |  |
| 11:30 – 12:15 | Overview of the Metastasis Cascade        | <b>Dr Fedor Berditchevski</b><br>Division of Cancer Studies<br>University of Birmingham  |
| 12:15 – 13:00 | Role of MMPs and TIMPS in Metastasis      | <b>Professor Dylan Edwards</b><br>School of Biological Sciences,<br>University of East Anglia, Norwich   |
| 13:00 – 14:00 | <b>LUNCH</b>                              |  |
| 14:00 - 14.45 | Cell Adhesion Molecules in Cancer         | <b>Dr Neil Hotchin</b><br>Biosciences<br>University of Birmingham  |
| 14:45 – 15.30 | Inflammatory Cell Trafficking             | <b>Professor David Adams</b><br>Division of Medical Sciences<br>University of Birmingham   |
| 15.30 – 16.00 | <b>REFRESHMENTS</b>                       |  |
| 16.00 – 16.45 | Angiogenesis in Cancer                    | <b>Professor Roy Bicknell</b><br>Division of Infection and Immunity<br>University of Birmingham  |
| 16.45 – 17.30 | Recent advances in MRI Imaging of Cancers | <b>Dr Nandita DeSouza</b><br>The Royal Marsden<br>London   |

# Department of Pathology

## Division of Cancer Studies

Molecular and Cellular Biology of Cancer Course 2007

Day 2 – Tuesday 20<sup>th</sup> February

Cell Cycle, DNA Damage, cellular Survival and Cancer

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|---------------|---|--|
| 08:30 – 09:00 | Registration  | Coffee and Tea   |
| 09:00 – 9.45  | Genetic Epidemiology                                | <b>Professor Maurice Zeegers</b><br>Division of Public Health and Epidemiology<br>University of Birmingham |
| 09.45-11.00   | Clinical Pathological Conference                    | TBA  |
| 11:00 – 11:30 | <b>REFRESHMENTS</b>                                 |  |
| 11:30 – 12:15 | Cell Cycle Control and Cancer                       | <b>Professor Eric Lam</b><br>Faculty of Medicine, Imperial College<br>Hammersmith Hospital Campus, London  |
| 12:15 – 13:00 | DNA Repair and Cancer                               | <b>Professor Malcolm Taylor</b><br>Division of Cancer Studies<br>University of Birmingham                  |
| 13:00 – 14:00 | <b>LUNCH</b>  |  |
| 14.0 – 14:45  | Signalling in Cancer                                | <b>Dr Ashley Martin</b><br>Division of Cancer Studies<br>University of Birmingham                          |
| 14.45 – 15.30 | Caspases and Cancer                                 | <b>Dr Pascal Meier</b><br>Institute of Cancer Research<br>London   |
| 15.30 – 16.00 | <b>REFRESHMENTS</b>                                 |  |
| 16:00 – 16:45 | Apoptosis and Cancer<br>The response to Cell Injury | <b>Professor Andrew Wyllie</b><br>Department of Pathology<br>Cambridge University                          |
| 16.45 – 17.30 | Telomerase in Replicative<br>Senescence and Cancer  | <b>Professor Ken Parkinson</b><br>Queen Mary's School of Medicine and Dentistry<br>London                  |

# Department of Pathology

## Division of Cancer Studies

Molecular and Cellular Biology of Cancer Course 2007

Day 3 – Wednesday 21st February

### Viruses and Cancer

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| 08:30 – 09:00 | Registration  | Coffee and Tea   |
| 09:00 – 9.45  | Epigenetics and Cancer  | <b>Professor Bryan Turner</b><br>Institute of Biomedical Research<br>University of Birmingham        |
| 9.45-11.00    | Clinical Pathological Conference<br>HPV, Hep B/C Case,<br>Head and Neck | <b>Chaired by Professor Lawrence Young</b><br>Division of Cancer Studies<br>University of Birmingham |
| 11:00 – 11:30 | <b>REFRESHMENTS</b>   |  |
| 11:30 – 12:15 | EBV and Cancer<br>From persistence to pathogenesis                      | <b>Professor Lawrence Young</b><br>Division of Cancer Studies<br>University of Birmingham            |
| 12:15 – 13:00 | HPV and Cancer  | <b>Dr Sally Roberts</b><br>Division of Cancer Studies<br>University of Birmingham                    |
| 13:00 – 14:00 | <b>LUNCH</b>  |  |
| 14:00 – 14:45 | Epidemiology of HPV   | <b>Professor Ciaran Woodman</b><br>Division of Cancer Studies<br>University of Birmingham            |
| 14.45 – 15.30 | Kaposi's Sarcoma associated<br>Herpes Virus Pathogenesis                | <b>Dr David Blackburn</b><br>Division of cancer Studies<br>University of Birmingham                  |
| 15.30 – 16.00 | <b>REFRESHMENTS</b>   |  |
| 16:00 – 16:45 | Gene Therapy for Epithelial Cancers<br>What does the future hold?       | <b>Dr Peter Searle</b><br>Division of Cancer Studies<br>University of Birmingham                     |
| 16.45 – 17.30 | Cancer Immunotherapy<br>Is it a promising Therapeutic<br>Approach?      | <b>Dr Neil Steven</b><br>Division of Cancer Studies<br>University of Birmingham                      |

# Department of Pathology

## Division of Cancer Studies

Molecular and Cellular Biology of Cancer Course 2007

Day 4 – Thursday 22<sup>nd</sup> February

### Stem Cells and Cancer

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| 08:30 – 09:00 | Registration  | Coffee and Tea   |
| 09:00 – 09:45 | Stem Cells and Cancer<br>An Overview  | <b>Dr Hanna Romanska</b><br>Division of Cancer Studies<br>University of Birmingham                             |
| 09:45 – 11:00 | Clinical Pathological Conference  | <b>Chaired by Professor Charles Craddock</b>   |
| 11:00 – 11:30 | <b>REFRESHMENTS</b>   |  |
| 11:30 – 12:15 | Stem Cells and Leukaemia  | <b>Professor Paul Moss</b><br>Division of Cancer Studies<br>University of Birmingham                           |
| 12:15 – 13:00 | From Teratocarcinoma to<br>Embryonic Stem Cells   | <b>Professor Peter Andrews</b><br>Department of Biomedical Sciences<br>University of Sheffield                 |
| 13:00 – 14:00 | <b>LUNCH</b>  |  |
| 14:00 – 14:45 | Bone Marrow Stem Cells<br>& Carcinoma Development   | <b>Professor Malcolm Alison</b><br>Institute for Diabetes and Metabolic Medicine<br>Barts and the Royal London |
| 14:45 – 15:30 | Determining Stem Cell Trafficking by<br>Noninvasive Imaging Techniques  | <b>Dr Kishore Bhakoo</b><br>MRC, Imperial college<br>London  |
| 15:30 – 16:00 | <b>REFRESHMENTS</b>   |  |
| 16:00 – 16:45 | Molecular Diagnostics of Cancer   | <b>Dr Mike Griffiths</b><br>The Womens Hospital<br>Birmingham  |
| 17.30         | <b>WILLIAM WITHERING LECTURE</b><br><b>Genes and Health</b><br><b>Professor Mark Walport</b><br><b>The Wellcome Trust</b> |  |

# Department of Pathology

## Division of Cancer Studies

Molecular and Cellular Biology of Cancer Course 2007

Day 5 – Friday 23rd February

### Molecular End Points – Application of Molecular Biology to Clinical trials

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| 08:30 – 09:00 | Registration  | Coffee and Tea  |
| 09:00 – 09:45 | Pharmacodynamic Markers in Early Clinical Trials  | <b>Professor Herbie Newell</b><br>University of Newcastle Upon Tyne<br>Northern Institute for Cancer Research                                     |
| 09:45 – 10.30 | Strategies to speed up the development and testing of new treatments for cancer   | <b>Professor Max Parmar</b><br>MRC Clinical Trials Unit<br>London   |
| 10:30 – 11:00 | <b>REFRESHMENTS</b>   |   |
| 11:00 – 11:45 | Small Molecule Therapies  | <b>Professor Charles Craddock</b><br>Division of Cancer Studies<br>University of Birmingham   |
| 11.45-12.30   | Predictive value of Her-2 Topoisomerase II alpha for Anthracycline Chemotherapy in Breast Cancer. An update   | <b>Dr Chris Poole</b><br>Division of Cancer Studies<br>University of Birmingham   |
| 12:30 – 13:30 | <b>LUNCH</b>  |   |
| 13:30 – 3.30  | <b>Mini symposium:</b><br>Genomics, Metabolomics, & proteomics in cancer research, diagnosis and prognostication : Is this the future? Myth or reality? | <b>Professor Philip Johnson, Dr John Arrand, Dr Ulrich Gunther and Dr Martin Ashley</b><br>Division of Cancer Studies<br>University of Birmingham |
| 15.30 – 16.00 | <b>REFRESHMENTS – End of Course</b>   |   |