

2nd March, 2011
**Cancer Therapeutics: Small Molecule and Biological
Strategies in the Molecular-Targeted Era**
SATELLITE MEETING OF THE IACR – ROCHESTOWN PARK HOTEL, CORK

ONCOLOGY DRUG DISCOVERY OVERVIEW AND SMALL MOLECULE DEVELOPMENT

Chair: Prof David Haigh, Queen's University Belfast

- 10.30 – 11.00** **Oncology Drugs of the Future - Trends and highlights from new molecularly targeted drugs / drug candidates in clinical evaluation**
Andrew Thomas (AstraZeneca)
- 11:00 – 11:30** **Fragment Based Hit Identification and Structure Based Approaches to Cancer Drug Discovery**
Martin Drysdale (Beatson Institute for Cancer Research, University of Glasgow)
- 11.30- 12.00** **Drugging the DNA Damage Response pathways**
Dr Niall Martin (ex-Kudos Pharma)
- 12.00-12.30** **Chemical Biology Research at the Broad**
Michael A. Foley, Director, Broad Institute, Boston
- 12.30-13.30** **LUNCH**

KEYNOTE PRESENTATION

Chair: Prof Anita Maguire, University College Cork

- 13:30 – 14:15** **Cancer Drug Discovery Using Fragment-Based Methods**
Prof Steve Fesik (Vanderbilt University)

SHORT RESEARCH PRESENTATIONS

- 14:15–14.35** **Development of Novel and highly potent legumain Inhibitors for the treatment of Poor Prognosis Breast Cancer**
Dr Rich Williams (Queen's University Belfast)
- 14.35-14.55** **Design and synthesis of novel indolocarbazole derivatives as anti-cancer agents**
Dr. Florence McCarthy (University College Cork)
- 14.55-15.15** **Development of pyrrolo-1,5-benzoxazepines (PBOXs) as novel anti-cancer agents**
Dr Daniela Zisterer (Trinity College Dublin)
- 15:15 – 15:45** **TEA/COFFEE BREAK**

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ANTIBODY AND BIOLOGICAL BASED-THERAPEUTICS

Chair: to be confirmed

- 16:00 – 16.30** **Strategies for biological targeting in head and neck cancer**
Dr Kevin Harrington (Institute of Cancer Research, London)
- 16:30 – 17:00** **A novel strategy for targeting metalloproteinases in cancer**
Prof Gillian Murphy (University of Cambridge)
- 17:00 - 17:30** **Targeting of Cathepsin S in Tumourigenesis**
Dr Chris Scott (Queen's University Belfast)
- 17:30 - 18:00** **The anti-tumour efficacy of the novel peptide inhibitor of angiogenesis ALM-201**
Dr Martin O'Rourke (Almac Discovery)
- 18:00 - 18.15** **A G Murphy, Education and Research Centre, St Vincent's University Hospital
Development of novel anti-angiogenic compounds for colorectal cancer using
a tumour explant model and zebrafish.**
- 18.15 - 18.30** **M Mullooly, St. Vincent's University Hospital, St. Vincent's University Hospital
Adams as new therapeutic targets for triple negative breast cancer**



*Supported by:
The Department for Employment and Learning
through its "Strengthening the all-Island Research Base" initiative*



IRISH ASSOCIATION FOR CANCER RESEARCH – 3rd March 2011

ROCHESTOWN PARK HOTEL, CORK

- 08.30 – 08.45** *Welcome:* **Dr David Waugh, Honorary Secretary**
- 08.45 - 10.30** *Proffered Papers Session:*
- 08.45 - 09.00** **M Cronin**, Cork Cancer Research Centre, University College Cork, Cork, Ireland
Systemic Tumour Targeting With Orally Administered Non-Pathogenic Bacteria
- 09.00 - 09.15** **J Lynch**, ¹Cancer Genetics, Royal College of Surgeons, Dublin
Mir-335 Suppresses The Migratory And Invasive Capacity Of Neuroblastoma Cells
- 09.15 - 09.30** **A Redmond**, Nuclear Receptor Transcription, Cancer Research UK Cambridge Research Institute, Cambridge, UK
The role of the chromatin protein HMGB2 in estrogen driven breast cancer
- 09.30 - 09.45** **S English**, UCD Conway Institute of Biomolecular and Biomedical Research, University College Dublin, Belfield, Dublin 4
Hypoxia in Epithelial Ovarian Cancer: Remodelling the Epigenome and Taxol® response.
- 09.45 - 10.00** **A Michielsen**, Centre for Colorectal Disease, St. Vincent's University Hospital, Dublin
Bevacizumab Causes Inhibition Of Dendritic Cells And Is Associated With Patient Survival In Colorectal Cancer
- 10.00 - 10.15** **NT Crawford**, CCRCB, Queens University Belfast, Belfast, N.Ireland
Identification Of The Transcriptional Complex Through Which Tbx2 Drives The Proliferation Of Breast Cancer Cells
- 10.15 - 10.30** **IS Babina**, Department of Surgery, Royal College of Surgeons in Ireland, Dublin
CD44 Affiliation With Lipid Rafts Is Associated With Decreased Motility Of Breast Cancer Cells
- 10.30-11.00** **COFFEE/TEA/EXHIBITS**
- 11.00-12.30** **PLENARY SESSION I - CHROMATIN AND GENOMIC STABILITY**
- Chairpersons: Dr. Paul Mullan (CCRCB) and Dr. Leonie Young (RCSI)**
- 11.00-11.30** **Activation of the checkpoint kinase, Chk1, by cyclin-dependent kinase, CDK, and the Rad9 mediator protein**
Professor Noel F. Lowndes, Professor and Head of Department, National University of Ireland, Galway
- 11.30-12.00** **Mechanisms of Estrogen Receptor transcription in breast cancer**
Dr. Jason Carroll, Nuclear Receptor Transcription Laboratory, Cancer Research UK Cambridge Research Institute, UK



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ROCHESTOWN PARK HOTEL, CORK

12.00-12.30 PLENARY SESSION I - CHROMATIN AND GENOMIC STABILITY Cont'd

Maintenance of Genomic Stability by Human Deubiquitinating Enzyme Complexes

Dr. Martin Cohn, Department of Biochemistry, University of Oxford, UK

12.30 - 13.40 Posters and Exhibits (Finger Buffet Lunch)

13.40 - 14.10 IACR AGM

14.10 - 15.00 EACR Young Scientists Presentations

**14.10 – 14.30 SS McDade, Centre for Cancer Research and Cell Biology, QUB, Belfast, UK
ChIP-seq identifies p63 target genes involved in palatal fusion and EMT**

**14.30 – 14.50 A. Pickard, CCRCB, QUB, Belfast, United Kingdom
The Stromal Function Of The Retinoblastoma Protein In Controlling Differentiation And Cancer Cell Invasion**

15.00-16.00 Oral Posters Presentations (8 talks x 7 mins)

AC Cichon, Centre for Cancer Research and Cell Biology, Queen's University Belfast, Belfast, Northern Ireland

The Cell Non-Autonomous Effects Of Pten

LC Oram, Centre for Cancer Research and Cell Biology, Queens University Belfast, Belfast, UK

BRCA1 is a master regulator of breast cell fate through co-ordinated activation of a Notch signalling program.

C Walsh, Endocrine Oncology Research Group, Royal College of Surgeons in Ireland, Dublin 2

The role of the developmental protein HOXC11 in breast cancer tumour adaptability

S Dasgupta, Centre for Cancer Research and Cell Biology, Queen's University Belfast, Belfast, N. Ireland

ADAM-17 is a key regulator of ErbB survival response in colorectal cancer.

P Dunne, CCRCB, Queen's University Belfast, Belfast, Northern Ireland
Oncogenic Kras Controls Chemotherapy-Induced Growth Factor Shedding By Inducing Mek And Erk-Mediated Activation Of Adam17 In Colorectal Cancer

M Cotter, Breast Cancer Research Group, St. Vincent's University Hospital, Dublin
Poly (ADP-Ribose) Polymerase 1: A New Target for the Treatment of Triple Negative Breast Cancer



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15.00-16.00 Oral Posters Presentations (8 talks x 7 mins) Cont'd

J Lysaght, Surgery, Trinity College Dublin, Dublin, Ireland
The human omentum is a rich source of activated inflammatory CD4⁺ and CD8⁺ T cells, with a potential pathological role in oesophageal adenocarcinoma development.

M Prencipe, UCD School of Medicine and Medical Science, UCD Conway Institute of Biomolecular and Biomedical Research and Mater Misericordiae University Hospital, University College Dublin
Mechanisms of docetaxel resistance in prostate cancer: is NFkB involved?

16.00-16.30 COFFEE/TEA

16.30-18.00 PLENARY SESSION II

INFLAMMATION, CYTOKINES AND THE MICROENVIRONMENT

Chairpersons: Dr. Ann Hopkins (RCSI) and Prof Gerry O'Sullivan (Cork Cancer Research Centre)

16.30-17.00 TMEM: A new direction in the pathological assessment of metastatic risk in breast cancer
Dr. Joan Jones, Weill College of Medicine, Cornell University, New York

17.00-17.30 'Macrophages without SOCS block inflammation but drive aggressive cancers
Professor Jim Johnston, Centre for Infection and Immunity, Queen's University Belfast

17.30-18.00 EACR STATE OF THE ART LECTURE

"Drosophila models for tumour-related inflammation and Colorectal Cancer"
Dr. Marcos Vidal, The Beatson Institute, University of Glasgow

18.05-19.30 Main Poster Session/Exhibits with Sponsored Wine/Canapé Reception
(Kindly sponsored by Labplan)

20.00 Buffet Dinner
(Kindly Sponsored by Irish Cancer Society)



IRISH ASSOCIATION FOR CANCER RESEARCH – 4th March 2011
ROCHESTOWN PARK HOTEL, CORK

- 08.15-10.00 Proffered Papers Session**
- 08.15-08.30** **N Lynam-Lennon**, Department of Surgery, Trinity College Dublin, Dublin, Ireland
MicroRNA-31 modulates tumour sensitivity to radiation in oesophageal cancer
- 08.30-08.45** **Donley C**, School of Pharmacy, Queen's University Belfast, 97 Lisburn Road, Belfast
The Role of FKBPL and RBCK1 in Oestrogen Receptor Signalling
- 08.45-09.00** **AJ Eustace**, Molecular Therapeutics for Cancer Ireland, National Institute for Cellular Biotechnology, Dublin 9
Dasatinib overcomes acquired temozolomide resistance in metastatic melanoma cell lines.
- 09.00-09.15** **J O'Keefe**, ¹Biochemistry Dept, University College Cork
HRG-1, a Heme-Binding Protein with Enhanced Expression in Colorectal adenocarcinoma and Essential for Endosomal Trafficking of Nutrient Transporters
- 09.15-09.30** **GM Kelly**, Department of Biochemistry, University College Cork, Cork, Ireland
Insulin-like Growth Factor I Receptor Tyrosine Kinase activation is regulated by GSK-3 β mediated phosphorylation of serine 1248 in the C terminal tail.
- 09.30-09.45** **M McDermott**, National Institute for Cellular Biotechnology, Dublin City University, Glasnevin, Dublin 9, Ireland
Eukaryotic elongation factor 2 in acquired lapatinib resistance in HER2 positive breast cancer cells
- 09.45-10.00** **LR Barkley**, National Centre for Biomedical Engineering Science, National University of Ireland, Galway, Galway, Ireland
Direct Control Of CDC7 and DBF4 by MIR-29
- 10.00-10.30** ***Coffee/Exhibits***
- 10.30-12.30** **Plenary Session III**
SIGNALLING CUES AND THE REGULATION OF CELL FATE
- Chairpersons: Dr. Sharon McKenna (UCC) and Dr Dan Longley (QUB)**
- 10.30-11.00** **Molecular Insights into Mammalian Autophagy**
Dr. Sharon Tooze, Secretary Pathways Laboratory, Cancer Research UK London Research Institute, London, UK
- 11.00-11.30** **Lysosomal control of cancer cell invasion and survival**
Marja Jäättelä, Professor and Head of Department, Institute of Cancer Biology, Copenhagen, Denmark
- 11.30-12.00** **Many ways to TRAIL receptor signalling regulation by chemotherapeutic drugs**
Olivier Micheau, Oncology Research Group Leader, INSERM, Dijon, France



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- 12.00-12.30** **2 proffered papers (2 x 15 minutes)**
- 12.00-12.15** **L O' Leary**, Department of Biochemistry, National University of Ireland, Galway,
Generation Of Decoy Receptor Insensitive Trail Variants
- 12.15-12.30** **F Furlong**, UCD School of Medicine and Medical Science, University College Dublin
**Stabilisation of MAD2 Expression Through Inhibition Of MIR-433; A Novel
Mechanism For Restoring Chemo-Responsiveness In Ovarian Tumours**
- 12.30-13.30** **Posters/Exhibits & Finger Buffet Lunch**
- 13.30-15.30** **Plenary Session IV**
- BIOMARKERS FOR CANCER DIAGNOSIS AND TARGETED THERAPY**
- Chairpersons: Grace Callagy (NUIG) and Lorraine O'Driscoll (TCD)**
- 13.30-14.00** **"Genomic studies of drug resistance in ovarian cancer"**
*Dr. James Brenton, Functional Genomics of Ovarian Cancer Laboratory,
Cancer Research UK Cambridge Research Institute, University of
Cambridge*
- 14.00-14.30** **Aberrations of the miRNome in human cancer: Causes and
Consequences**
*Dr. Muller Fabbri, Department of Molecular Virology, Immunology and
Medical Genetics, Comprehensive Cancer Center, Ohio State University,
Columbus*
- 14.30-15.00** **MicroRNAs and the DNA damage response: the relevance for cancer**
*Professor Erik Wiemer, Department of Medical Oncology, Josephine
Nefkens Institute, Erasmus University, Rotterdam, The Netherlands*
- 15.00-15.30** **Biomarker Discovery and Validation for Prostate Cancer Grade and
Stage: Addressing the Clinical Dilemma**
*Professor William Watson, Conway Research Institute, University
College Dublin*
- 15.30-16.00** **TEA/COFFEE**
- 16.00-16.30** **BIOMARKERS FOR CANCER DIAGNOSIS AND TARGETED THERAPY
CONT'D**
- "Cancer Biomarkers: From Pilot Studies to Clinical Utility"**
*Professor Joe Duffy, Department of Biochemistry, St Vincent's Hospital,
Dublin*



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16.30-17.30 PLENARY SESSION V

ENERGY, METABOLISM AND CANCER SESSION

Chairperson: Jacintha O’Sullivan (TCD)

16.30-17.00 Professor Giuseppe Matarese, Laboratorio di Immunologia, Istituto di Endocrinologia e Oncologia Sperimentale, Consiglio Nazionale delle Ricerche, Napoli, Italy

17.00-17.30 “Molecular factors linking obesity with cancer”
Dr Graham Pidgeon, Institute of Molecular Medicine, Trinity College Dublin

17.35 IRISH CANCER SOCIETY LECTURE

**Introduced by: Mr John McCormick, Chief Executive Officer,
Irish Cancer Society**

**Deconstructing Tumour Suppression and Oncogenesis to Find
Effective Ways to Kill Cancer Cells**

*Professor Gerard Evan, Head of Department and Sir William Dunn
Professor, Department of Biochemistry, University of Cambridge*

20.00 Gala Dinner

Including Award Ceremony:

Presentation of Merck-Serono Graduate Travel Awards

EACR Young Scientist Awards and IACR Young Scientist Awards

Followed by Band and Late Bar