Draft Programme-IACR 2016 Annual Meeting

24th-26th February 2016

DAY 1- Wednesday Evening 24th February

Junior Council and Outreach Session (Wednesday Evening) 17.30-19.40.

Chairs: Chaired by the IACR Junior Council

17.30-18.30 Career Session

17.30-17.45 Dr Marta Terrile, Clinical Scientific Expert, Novartis.
Topic – cancer research in industry/developing a career in industry.

17.45-18.00 Dr Stephen Elliman, Head of Research, Orbsen Therapeutics.
Topic – industrial start up and IP issues.

18.00-18.15 Ms Eibhlin Mulroe, CEO of ICORG.
Topic – alternative scientific careers, including patient advocacy and science communication.

18.15-18.30 Prof Fran Balkwill, Centre Lead, Cancer for Cancer and Inflammation, Barts Cancer Institute.
Topic – developing an academic career.

18.30-18.50 Patient Outreach Session

Ms Gráinne Faller, Journalist, Irish Times.

18.50-19.20 Round Table Discussion

All speakers will be invited to participate.

19.20-19.40 Outreach Talk (TBC) (Sponsored by Breakthrough Cancer Research)
Thursday 25th February 2016
IACR Scientific Sessions

08.45 - 09.00: Welcome Address: Prof William Watson (IACR President)

09.00 - 10.30: PROFFERED PAPER 1 SESSION
(6 x 15 minute presentations from graduate students or postdoctoral fellows)
Chairpersons:

09.00-09.15 WHOLE GENOME TRANSCRIPTOME ANALYSIS OF SEQUENTIAL TUMOURS UNCOVERS NOVEL MEDIATORS OF METASTATIC DISEASE PROGRESSION
D Varešlija1, A Fagan1, S Cocchiglia1, S Purcell1, L Hudson1, E Ward1, P Buckley2, M Farrell2, ADK Hill3, L Young1. 1Surgical Research, Royal College of Surgeons, Dublin, 2Neuropathology, Beaumont Hospital, Dublin

09.15-09.30 SRC-1 TRANSCRIPTIONAL TARGETS IN ENDOCRINE RESISTANT BREAST CANCER
AL Browne1, A Fagan1, D Vareslija1, ADK Hill2, LS Young1
1Surgery, RCSI, Dublin 2, 2Surgery, Beaumont Hospital, Dublin 9

09.30-09.45 FUNCTIONAL EXPRESSION OF CAV1.3 CONTRIBUTES TO THE CASTRATE RESISTANT PROSTATE CANCER PHENOTYPE
PJ Buchanan1, KD McCloskey1. 1Centre for Cancer Research and Cell Biology, Queen's University Belfast, Belfast

09.45-10.00 A COMPARATIVE ASSESSMENT OF NUTRITIONAL SCREENING TOOLS IN THE IDENTIFICATION OF SARCOPENIA AND CANCER CACHEXIA IN AN IRISH COHORT OF 746 CANCER PATIENTS.
ENi Bhuachalla1, LDaly1, SCushen1, PMcEneaney2, MTwomey3, DPower4, AMRyan1.1Dept. Food and Nutritional Sciences, University College Cork, 2Dept. of Radiology, Mercy University Hospital, 3Dept. of Radiology, Cork University Hospital, 4Dept. of Medical Oncology, Mercy University Hospital, Cork

10.00-10.15 IMPROVED EFFICACY OF A TUMOUR VACCINE BY BLOCKING THE IMMUNE CHECKPOINT PD-1
LDyck1, KHGMills1. 1School of Biochemistry and Immunology, Trinity College Dublin, Dublin

10.15-10.30 TUMOUR CONDITIONING INDUCES PD-L1 EXPRESSION ON STROMAL CELLS, THEREBY INHIBITING ANTI-TUMOUR IMMUNITY
GO'Malley1,2, SNaicker2, K Lynch2, PLohan2, GShaw2, TRitter2, LJEgan1, AREyan1,2. 1Discipline of Pharmacology and Therapeutics, College of Medicine, NUI Galway, 2Regenerative Medicine Institute (REMEDi), College of Medicine, NUI Galway, Galway

10.30-11.00: Tea/Coffee/Posters & Meet the Sponsors
Thursday 25th February 2016
IACR Scientific Sessions

11.00-12.30: Plenary Session 1: Microbes and Cancer
   *Chairs: Dr Ken Nally (UCC) and Dr Olga Piskareva (RCSI)*

11.00-11.30  **BACTERIA & CANCER: CAUSERS OR CURERS?**
   *Dr Mark Tangney*, Principal Investigator, Cork Cancer Research Centre, University College Cork, Cork

11.30-12.00  **Prof Len Seymour (Oxford, UK)**

12.00-12.30  **Dr Susan Bullman Dana-Farber Cancer Institute and Harvard Medical School**

12.30-12.45  Gold Sponsor Presentation

12.45-14.00 Lunch, Trade Exhibition and Posters

14.00-15.30: Plenary Session 2: Immune based therapies in Cancer
   *Chairs: Dr Marion Butler (NUIM) and Dr. Niamh Buckley (QUB)*

14.00-14.30  ‘**IMMUNOTHERAPEUTIC APPROACHES TO CANCER BASED ON BLOCKADE OF IMMUNE CHECKPOINTS AND REGULATORY T CELLS TO ENHANCE ANTI-TUMOUR IMMUNITY**’
   *Professor Kingston Mills*, Professor of Experimental Immunology, School of Biochemistry and Immunology, Head Immunology, Inflammation and Infection Research Theme, Trinity Biomedical Sciences Institute

14.30-15.00  **Prof Gordon Freeman (Dana Farber, Boston)**

15.00-15.15  Gold Sponsor Presentation

15.30-16.00 Tea/Coffee/Posters & Meet the Sponsors

16.00-17.00: ORAL POSTER PRESENTATIONS (Prof. John Fitzpatrick Medal)
   *Chairs: Dr. Aisling O’Connor (ICS) TBC & Dr. Emer Bourke (NUIG)*
   (6 x 6 minute presentations from graduate students or postdoctoral fellows)

16.00-16.06  **IS RACK1 ABLE TO MODULATE TRANSLATION ELONGATION IN CANCER?**
   *B Malacrida*¹, CM Dowling², PA Kiely¹,²,¹ Graduate Entry Medical School, University of Limerick, Limerick, ²Department of Life Sciences and Materials and Surface Sciences Institute, University of Limerick, Limerick

16.07-16.13  **Th1 Cytokines Synergise to Downregulate Multiple RTK Pathways in Human Cancer Cell Lines**
   *JA Woznicki*¹,², S Rajaram¹,², RWD Gilbert¹, R O'Connor², N O'Donovan⁴, S Van Schaeybroeck³, S Melgar¹, F Shanahan¹,³, K Nally¹,²
   ¹APC Microbiome Institute, University College Cork, ²School of Biochemistry and Cell Biology, University College Cork, ³Department of Medicine, University College Cork, ⁴National Institute for Cellular Biotechnology, Dublin City University, Dublin, ⁵Centre for Cancer Research and Cell Biology, Queen’s University Belfast, Belfast
Thursday 25th February 2016
IACR Scientific Sessions

16.14-16.20 "SRC-1 MEDIATES TRANSCRIPTIONAL REPRESSION IN ENDOCRINE RESISTANT BREAST CANCER"
E Ward\textsuperscript{1}, A Fagan \textsuperscript{1}, D Vareslija\textsuperscript{1}, A Hill\textsuperscript{1,2}, L Young\textsuperscript{1}\textsuperscript{.1Endocrine oncology research group, RCSI, Dublin, \textsuperscript{2}Beaumont Hospital, RCSI, Dublin

16.21-16.27 A NOVEL ROLE FOR JAM-A IN RESISTANCE TO HER2-TARGETED BREAST CANCER THERAPIES
AO Leech\textsuperscript{1}, L Hudson\textsuperscript{1}, ADK Hill\textsuperscript{1}, LS Young\textsuperscript{1}, AM Hopkins\textsuperscript{1}\textsuperscript{1Surgery, Royal College of Surgeons in Ireland, Dublin

16.28-16.34 AUTOMATED QUANTITATIVE ANALYSIS OF HGSOC TISSUE SAMPLES FOR MOLECULAR PROFILING IN DISCOVERY AND DIAGNOSTICS
L Webster\textsuperscript{1}, P Hamilton\textsuperscript{1}\textsuperscript{1Centre for Cancer Research & Cell Biology, QUB, Belfast

16.35-16.41 INVESTIGATING THE POTENTIAL OF CYTOKINE BIOMARKERS AS PROGNOSTIC INDICATORS OF CANCER MORTALITY IN STAGE I LUNG ADENOCARCINOMA PATIENTS
CL Meaney\textsuperscript{1}, A Zingone\textsuperscript{1}, D Brown\textsuperscript{1}, BM Ryan\textsuperscript{1}\textsuperscript{1Laboratory of Human Carcinogenesis, National Cancer Institute, National Institutes of Health, MD, USA

17.00-18.00 IRISH CANCER SOCIETY SCHOLAR AND FELLOW PRESENTATIONS
(The highest scoring abstracts from 2 x ICS funded PhD students and 2 x ICS funded Postdocs will be selected for presentation)
Chairs: TBC

17.00-17.15 SOMATIC HER FAMILY MUTATIONS ARE PRESENT IN 8% OF HER2-POSITIVE BREAST CANCERS AND THE ERBB4-V721I MUTATION INCREASES GROWTH RATE AND INCREASES RESISTANCE TO TKIS BUT MAY SENSITISE CELLS TO A PI3K INHIBITOR
Elster N\textsuperscript{1}, Eustace AJ\textsuperscript{1}, Fan Y\textsuperscript{2}, Weiner-Gorzel K\textsuperscript{2}, Breathnach U\textsuperscript{2}, Murphy M\textsuperscript{2}, Naidoo J\textsuperscript{3}, Fay J\textsuperscript{4}, Kay EW\textsuperscript{4}, Carr A\textsuperscript{1}, Furney S\textsuperscript{2}, Malgorzata M\textsuperscript{1}, Breathnach OS\textsuperscript{2}, Morris PG\textsuperscript{2}, Grogan L\textsuperscript{5}, Hill AD\textsuperscript{5}, Power CP\textsuperscript{5}, Allen M\textsuperscript{5}, Kennedy S\textsuperscript{6}, Crown J\textsuperscript{5}, Gallagher WM\textsuperscript{2}, Toomey S, Hennessy BT\textsuperscript{1,5}\textsuperscript{1Medical Oncology Group, Dept Molecular Medicine, RCSI, \textsuperscript{2}Conway Institute, University College Dublin, \textsuperscript{3}Memorial Sloan-Kettering Cancer Centre, \textsuperscript{4}Dept Pathology, RCSI, \textsuperscript{5}Beaumont Hospital, Dublin, \textsuperscript{6}St Vincent’s University Hospital, Dublin.

17.15-17.30 FUNCTIONAL GENOMIC SCREENING IDENTIFIES USP11 AS A NOVEL THERAPEUTIC TARGET IN BREAST CANCER
L Dwane\textsuperscript{1}, AE O'Connor\textsuperscript{2}, L Mulrane\textsuperscript{2}, R Klinger\textsuperscript{1}, AM Dirac\textsuperscript{3}, K Jirstrom\textsuperscript{4}, JP Crown\textsuperscript{5}, R Bernards\textsuperscript{5}, WM Gallagher\textsuperscript{2}, DP O'Connor\textsuperscript{1}\textsuperscript{1Molecular and Cellular Therapeutics, Royal College of Surgeons in Ireland , Dublin 2, \textsuperscript{2}UCD Conway Institute, University College Dublin, Belfield, Dublin 4, \textsuperscript{3}Division of Molecular Carcinogenesis, Netherlands Cancer Institute, Amsterdam , The Netherlands, \textsuperscript{4}Department of Laboratory Medicine, Malmo University Hospital, Lund Univeristy , Malmo, Sweden \textsuperscript{5}St Vincent’s University Hospital , Elm Park, Dublin 4
Thursday 25th February 2016
IACR Scientific Sessions

17.30-17.45  NOVEL MOLECULAR TARGETS FOR ADVANCED PROSTATE CANCER
M Prencipe1, A O’Neill1, G O’Hurley2, S Lynch1, E Kenny1, K Murphy1,3, A Fabre4, H Klocker5, WM Gallagher6, C Morrissey7, EW Kay8, RW Watson1
1UCD School of Medicine and Medical Science, Conway Institute, University College Dublin, Dublin, 2OncoMark Limited, Nova UCD, Dublin, 3UCD School of Mathematical Sciences and Insight Centre for Data Analytics, University College Dublin, Dublin, 4Department of Pathology, St. Vincent’s University Hospital, Dublin, 5Department of Urology, Innsbruck Medical University, Innsbruck, Austria, 6UCD School of Biomolecular and Biomedical Science, Conway Institute, University College Dublin, Dublin, 7Department of Urology, University of Washington, Seattle, Washington, USA, 8Department of Pathology, RCSI Education and Research Centre Beaumont Hospital, Dublin

17.45-18.00  EXAMINING DNA METHYLATION CHANGES AT ALTERNATIVE REGULATORY REGIONS ACROSS THE GENOME IN METASTATIC COLORECTAL CANCER
S Das1, B Moran1,8, D Smeets2, T Van Brussel2, G Peutman2, R Klinger1,8, B Fender3, M Ebert5, T Gaiser5, JHM Prehn4, O Bacon4,6, E Kay6, B Hennessy6, V Murphy7, A Byrne4, W.M Gallagher8,3, D Lambrechts2, D O’Connor1
1Department of Molecular and cellular therapeutics, Royal College of Surgeons in Ireland, Dublin, 2Department of Translational genetics, VIB, K.U., Leuven, Belgium, 3, OncoMark Ltd., NOVA UCD, Dublin, 4Department of Physiology, Royal College of Surgeons in Ireland, Dublin, 5, University of Heidelberg, Mannheim, Germany, 6, Beaumont Hospital, Dublin, 7Irish Clinical Oncology Research Group, Dublin, 8Cancer Biology and therapeutics lab, Conway Institute, University College Dublin, Dublin

18.00- 18.30  Tea/Coffee/Posters & Meet the Sponsors

18.30-19.30:  IRISH CANCER SOCIETY LECTURE
Introduced by John McCormack

UNDERSTANDING AND TARGETING THE OVARIAN CANCER MICROENVIRONMENT
Professor Fran Balkwill, OBE FMedSci, Centre Lead, Centre for Cancer and Inflammation, Barts Cancer Institute - a Cancer Research UK Centre of Excellence, Queen Mary, University of London

19.30–22.30:  FORMAL POSTER SESSION, TRADE EXHIBITION/ WINE RECEPTION/BUFFET DINNER
Friday 26th February 2016
IACR Scientific Sessions

09.15 -10.45  PROFFERED PAPER 2 SESSION (6 x 15 minute presentations)
Chairpersons:
(6 x 15 minute presentations from graduate students or postdoctoral fellows)

09.15-09.30  BREAST TUMOURS ADAPT TO AROMATASE INHIBITOR THERAPY INDUCING DYNAMIC ALTERATIONS IN ER ACTIVITY
J McBryan¹, D Vareslija², A Fagan², A Redmond³, Y Hao⁴, AH Sims⁵, A Turnbull⁶, JM Dixon⁶, P O Gaora⁷, ADK Hill², LS Young².¹Dept of Molecular Medicine, RCSI, Dublin, ²Dept of Surgery, RCSI, Dublin, ³ Cancer Research UK Cambridge Institute, Cambridge, ⁴ Cold Spring Harbor Laboratory, New York, ⁵ University of Edinburgh Cancer Research UK building, Edinburgh, ⁶ Breakthrough Breast Research Laboratories, Edinburgh, ⁷ Biomolecular and Biomedical Science, Conway Institute, UCD, Dublin

09.30-09.45  THE ROLE OF BCL2-ASSOCIATED-ATHANOGENE-3 IN STABILISING EGFR SIGNALLING NODES AND PROMOTING TUMOUR PROGRESSION IN TRIPLE NEGATIVE BREAST CANCERS
S Shields¹, R Reilly¹, E Conroy¹, K Connor¹, T OGrady², A McGoldrick¹, E Kaye², A McCann¹, W Gallagher¹, J Coppinger¹.¹ Convery Institute , UCD, Dublin

09.45-10.00  FER TYROSINE KINASE MEDIATES INSULIN-LIKE GROWTH FACTOR 1 (IGF-1) SIGNALLING VIA IGF-1 RECEPTOR (IGF-1R) STABILISATION.
S O'Shea¹, J Stanicka¹, R O'Connor¹
¹School of Biochemistry and Cell Biology, University College Cork, Cork

10.00-10.15  BROMODOMAIN INHIBITORS FOR THE TREATMENT OF INVASIVE LOBULAR CARCINOMA
L Walsh¹, WM Gallagher³, TN Chonghaile*², DP O'Connor*¹
¹Molecular and Cellular Therapeutics, Royal College of Surgeons in Ireland, Dublin 2, ²Physiology and Medical Physics, Royal College of Surgeons in Ireland, Dublin 2, ³ School of Biomolecular and Biomedical Science, Conway Institute, University College Dublin, Dublin 4

10.15-10.30  MOLECULAR UNDERSTANDING AND THERAPEUTIC TARGETING OF PROLYL ISOMERASES IN THE TREATMENT OF HAEMATOLOGICAL MALIGNANCIES
PT Lavin¹, K Brennan¹, L Shiels², A Byrne², WM Gallagher¹, J-F Guichou³, M M Mc Gee ¹.¹UCD School of Biomolecular and Biomedical Science, University College Dublin, ² Royal College of Surgeons in Ireland, Dublin, ³ Centre de Biochimie Structurale, UMR 5048 CNRS, INSERM, Montpellier Cedex 5, France

10.30-10.45  RELATIONSHIP BETWEEN 18F-FLUORODEOXYGLUCOSE UPTAKE AND HYPOXIC, ANGIogenic AND METABOLIC PROFILES IN OESOPHAGEAL CANCER
H O'Neill¹, V Malik², J Phelan¹, Z Claxton¹, N Gilmartin¹, C Muldoon³, C Johnston², JV Reynolds¹, J O'Sullivan¹.¹Department of Surgery, St James Hospital/Trinity College, Dublin, ² Department of Radiology, St James Hospital, Dublin, ³Department of Pathology, St James Hospital, Dublin
Friday 26th February 2016
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10.45-11.15  Tea/Coffee/Posters & Meet the Sponsors

11.15-12.30  Plenary Session 3: Targeting Oncogenic Signalling Networks in Cancer
*Chairs: Prof William Gallagher (UCD) and Dr Norma O’Donovan (DCU)*

11.15-11.45  TARGETING BCL-2 SIGNALLING NETWORKS
Prof Jochen Prehn, Professor of Physiology & Director, Centre for Systems Medicine, Royal College of Surgeons, Dublin

11.45-12.15  ONCOGENIC KRAS REGULATES TUMOUR CELL FUNCTION VIA STROMAL RECIPROCAL SIGNALS
Dr Claus Jorgensen. Group Leader, Systems Oncology, Cancer Research UK Manchester Institute

12.15-12.30  Gold Sponsor Presentation

12.30-14.30: Lunch, Trade Exhibitions and Posters

14.30-15.30  Plenary Session 4: The hallmarks of Cancer: ‘The newbies’
(Genetic instability, Epigenetics, Angiogenesis and Metabolism)
*Chairs: Dr Antoinette Perry (TCD) and Graham Pidgeon (TCD)*

14.30-15.00  CENTROSOMES AND THE DNA DAMAGE RESPONSE
Prof Ciaran Morrison, Biochemistry Professor in the Centre for Chromosome Biology at National University of Ireland Galway (NUIG)

15.00-15.30  THE INS AND OUTS OF CENTROSOME AMPLIFICATION INDUCED INVASION
Dr. Susana Godinho, Lecturer, Centre for Molecular Oncology, Barts Cancer Institute, London

15.30-16.00  Tea/Coffee/Posters & Meet the Sponsors

16.00 - 16.30  Prof John Greally (Albert Einstein, NY)

16.30-17.00  Diether Lambrechts (VIB, Leuven)
Friday 26th February 2016
IACR Scientific Sessions

17.00-18.00 EACR Young Scientist Awards
Chairs: Mr Andrew Binns (EACR) and TBC

17.00-17.30 Translational application of a mathematical model of apoptotic caspase activation provides a prognostic biomarker in stage III colorectal cancer
Manuela Salvucci1,2, Maximilian Wuerstle1,2, Mattia Cremona1,3, Sarah Curry1,4, Clare Morgan1,3, Andreas U. Lindner1,2, Orna Bacon1,5, Alexa Resler1,2, Aine C. Murphy1,2, Robert O’Byrne1,2, Lorna Flanagan1,2, Sonali Dasgupta6, Nadege Rice7, Camila Pilati7, Elisabeth Zink1,2, Lisa Schoeller1,2, Sinead Toomey3, Daniel B. Longley6, Mark Lawler6, Patrick G. Johnston6, Richard Wilson6, Sophie Camilleri-Broët7, Manuel Salto-Tellez6, Deborah A. McNamara5, Elaine W. Kay1,4, Bryan T. Hennessy1,3, Pierre Laurent-Puig8, Sandra Van Schaeybroeck6, Markus Rehm1,2,*, and Jochen H.M. Prehn1,2,*
1Centre for Systems Medicine, 2Department of Physiology & Medical Physics, 3Department of Medical Oncology, Royal College of Surgeons in Ireland, Dublin 2, Ireland; 4Department of Pathology, 5Department of Surgery, Beaumont Hospital, Dublin 9, Ireland; 6Centre for Cancer Research and Cell Biology, School of Medicine, Dentistry and Biomedical Science, Queen’s University Belfast, Belfast, United Kingdom; 7Faculté de Médecine, 8UMR-S775 INSERM Laboratory, Université Paris Descartes, Paris, France. *Shared senior authorship.

17.30-18.00 Mutation-specific interactions between ultraviolet radiation and melanoma
SJ Furney1, M Pedersen2,3, A Viros2, MR Girotti, B Sánchez-Laorden2, G Saturno2, E Galvani2, SW Piraino1, K Hogan2, R Lee2, P Lorigan4, M Cook5, R Marais2
1School of Medicine, University College Dublin, 2Molecular Oncology Group, Cancer Research UK Manchester Institute, Manchester, 3Targeted Therapy Team, The Institute of Cancer Research, London, 4University of Manchester, Christie NHS Foundation Trust, Manchester, 5Histopathology, Royal Surrey County Hospital, Guildford, 6Equal Contribution

18.00 CLOSE OF MEETING

19.30 GALA DINNER and Awards Presentations