

EACR Winners:

RATIONAL DESIGN AND VALIDATION OF A TIP60 HISTONE ACETYLTRANSFERASE INHIBITOR FOR THE TREATMENT OF BREAST CANCER SUBTYPES

C Gao^{1,2}, E Bourke³, M Scobie⁴, MC Casey⁶, A McGuire⁶, A Shalaby³, M Webber³, C Curran⁶, MA Famme⁴, T Koolmeister⁴, M Kerin⁶, T Helleday⁴, LA Eriksson^{1,2}, NF Lowndes⁵, **James Brown**^{5,6}

¹School of Chemistry, National University of Ireland Galway, Galway, ²Department of Chemistry and Molecular Biology, University of Gothenburg, Gothenburg, Sweden, ³Discipline of Pathology, National University of Ireland Galway, Galway, ⁴Division of Translational Medicine and Chemical Biology, Department of Medi, Karolinska Institute, Stockholm, Sweden, ⁵Centre for Chromosome Biology, School of Natural Sciences, National University of Ireland Galway, Galway, ⁶Department of Surgery, School of Medicine, National University of Ireland Galway, Galway, Ireland

TARGETING COLON CANCER CELL NF-kappaB PROMOTES AN ANTI-TUMOR M1-LIKE MACROPHAGE PHENOTYPE AND INHIBITS PERITONEAL METASTASIS

AE Ryan^{1,2}, A Colleran¹, A O'Gorman¹, L O'Flynn², J Pindjakova², P Lohan², G O'Malley^{1,2}, M Nosov², C Mureau¹, LJ Egan¹

¹Discipline of Pharmacology and Therapeutics, NUIG, Galway, ²Regenerative Medicine Institute, NUIG, Galway

Proffered Paper Winners:

09.40 - 09.55 on Thursday	EphA2 is an essential driver of invasion and associated with the poor prognostic stem-like subgroup in early stage colorectal cancer. Philip Dunne ¹ , D McArt ¹ , J Blayney ¹ , M Salto-Tellez ¹ , P Johnston ¹ , S Van Schaebroeck ¹ ¹ CCRCB, Queens University Belfast, Belfast
08.40 – 08.55 On Friday	IDENTIFICATION OF A NOVEL UBIQUITIN SPECIFIC PEPTIDASE INVOLVED IN MAINTAINING GENOMIC STABILITY Edel McGarry ¹ , David Gaboriau ¹ , Umberto Restuccia ² , Michael D. Rainey ¹ , Angela Bachi ² and Corrado Santocanale ^{1,1} Centre for Chromosome Biology and National Centre for Biomedical Engineering Science, National University of Ireland, Galway, ² Functional Proteomics Unit, IFOM, FIRC Institute of Molecular Oncology, Milan, Italy

ORAL POSTER PRIZE WINNER

Poster No. 5

BRCA1 deficiency exacerbates estrogen-induced DNA damage and genomic instability

Kyle B Matchett¹, KI Savage¹, EM Barros¹, KM Cooper², GW Irwin¹, JJ Gorski¹, KS Orr¹, J Vohhodina¹, JN Kavanagh¹, AF Madden¹, A Powell^{1,2}, L Manti³, SS McDade¹, BH Park⁴, KM Prise¹, SA McIntosh¹, M Salto-Tellez¹, DJ Richard⁵, CT Elliott², DP Harkin¹

¹Centre for Cancer Research and Cell Biology, Queen's University Belfast, Belfast, ²Institute for Global Food Security, Queen's University Belfast, Belfast, ³Department of Physics, University of Naples Federico II, Naples, ⁴The Sidney Kimmel Comprehensive Cancer Centre, The Johns Hopkins University School of Medicine, Baltimore, ⁵Institute of Health and Biomedical Innovation, Queensland University of Technology, Brisbane

POSTER PRIZE WINNERS:

Overall Poster Winner - Poster No.63 – Ross Conlon Genetics and Genomics

Exosomal miRNA expression profiling of *in vitro* and *in vivo* models of treatment resistant neuroblastoma.

RA Conlon¹, H Harvey¹, O Piskareva¹, J Nolan¹, S Miller-Delaney¹, I Bray¹, RL Stallings¹

¹Dept. of Molecular and Cellular Therapeutics, Cancer Genetics Group, Royal College of Surgeons in Ireland, York house, York St, Dublin 2

Poster No: 10 – Angiogenesis – Gillian Moore

5-LIPOXYGENASE AND 12-LIPOXYGENASE INCREASE ANGIOGENESIS IN OESOPHAGEAL CANCER VIA VEGF-MEDIATED SIGNALLING PATHWAYS

GY Moore¹, MCC Cathcart¹, N Tchakian², DJ Maloney³, JV Reynolds¹, GP Pidgeon¹

¹Department of Surgery, TCD Centre for Health Sciences, St. James's Hospital, Dublin

²Department of Pathology, St. James's Hospital, Dublin

³Chemical Genomics Centre, NIH, Bethesda, Maryland, USA

Poster No.40 - Cell Signalling – Caitriona Dowling

Correlating the expression of Protein Kinase C isozymes with the transformed phenotype in Colorectal Cancer

CM Dowling^{1,2}, JJ Phelan⁴, MC Cathcart⁴, B Mehigan⁵, P McCormick⁵, T Dalton², JC Coffey³, J O'Sullivan⁴, PA Kiely^{1,2}

¹Department of Life Sciences, and Materials and Surface Science Institute, University of Limerick, Limerick, ²Stokes Research Institute, University of Limerick, Limerick, ³4i Centre for Interventions in Infection, Inflammation and Immunity, University of Limerick, Limerick, ⁴Department of Surgery, Trinity College Dublin, Dublin, ⁵GEMS, St.James Hospital, Dublin, Ireland

Poster No. 23 - Cell Biology – Nicholas Forsythe

THE ROLE OF ADAM-17 IN MEDIATING DRUG RESISTANCE AND CELL INVASION IN KRAS AND BRAF MUTANT COLORECTAL CANCER

N Forsythe¹, K Redmond¹, P Gilliland¹, R Williams¹, P Johnston¹, SV Schaeybroeck¹

¹CCRCB, Queens University Belfast, Belfast

Poster No.51 - Cell Signalling – Sandra O’Shea

IGF-1 RECEPTOR C TERMINAL TAIL PHOSPHORYLATION ON Y1250 IN CANCER CELLS

SP O' Shea, IF Fernández, R O' Connor

¹School of Biochemistry & Cell Biology, University College Cork, Cork

Poster No.82 – Translational – Mary-Clare Cathcart

Elucidation of the Expression Profile and Role of the Thromboxane Pathway in Colorectal Cancer: A Novel Anti-Vascular Approach for Therapeutic Intervention?

MC Cathcart¹, B Mehigan¹, P Mc Cormick¹, MC Lowry¹, Z Useckaite¹, GY Moore¹, JV Reynolds¹, EW Kay², JN O' Sullivan¹, GP Pidgeon¹

¹Department of Surgery, Trinity College Dublin/St. James's Hospital, Dublin 8.

²Department of Histopathology, Beaumont Hospital/RCSI, Dublin 9.

Poster No.86 – Translational – Lorna Flanagan

INHIBITION OF CASPASE-3 AS A NEW THERAPEUTIC APPROACH IN COLON CANCER

L Flanagan^{1,2}, S Curry³, J Fay³, O Bacon^{1,2}, E.W Kay³, D.A McNamara⁴, J.H.M Prehn^{1,2}

¹Department of Physiology & Medical Physics, Royal College of Surgeons in Ireland, Dublin

²Centre for Systems Medicine, Royal College of Surgeons in Ireland, Dublin

³Departments of Pathology, Beaumont Hospital, Dublin

⁴Departments of Surgery, Beaumont Hospital, Dublin

Poster No.118 - Tumour Immunology – Grace O’Malley

The effect of NF-κB tumour-stromal interactions in colorectal cancer

G O'Malley^{1,2}, G McStravick², P Lohan², K Lynch², G Shaw², T Ritter², LJ Egan¹, A Ryan^{1,2}

¹Pharmacology, NUI Galway, Galway

²REMEDI, NUI Galway, Galway