

<b>BIOCHEMISTRY PREVIOUS SPEAKERS</b>		
<b>SPEAKER</b>	<b>INSITIUTE</b>	<b>TOPIC</b>
<b>2010-11</b>		
David Gaboriau	Hutchison/MRC Research Centre, Cambridge	Effect of BRCA1 missense variants on cellular function
David Perera	University of Manchester	Exploring the role of Bub1 and Sgo1 in maintaining genome stability
Conly Rieder	Wadsworth Center, Albany	Live cell studies on taxol and the mitotic checkpoint
Rob Lewis	Eppley Cancer Institute, Univ. Nebraska Medical Center	RNAi Screening in cancer research: coordinated detection of molecular targets and targeted therapeutics for Ras-driven tumors
Ted Weinert	University of Arizona, Tucson	Genome instability: dicentrics, repeats, replication forks, cohesion... something for everybody
Patrick Kiely	UCC	The role of RACK1 in mediating crosstalk between growth factor and adhesion signalling
Karim Labib	Queen's University Belfast	Genome stability and the eukaryotic replisome
Kevin Prise	Dept. of Cellular & Molecular Medicine, University of Bristol	Understanding the DNA damage response in advanced radiotherapy
Devin Scanell	QB3 Institute University of California Berkeley	Stem cell differentiation and the evolution of transcriptional networks
Oliver Blacque	UCD	Use of genetics and advanced imaging tools to investigate membrane/protein transport to <i>C. elegans</i> sensory cilia and the pathomechanisms underlying cilia disease
Andrew Fry	University of Leicester	Centrosome regulation through the cell cycle
Torsten Krude	University of Cambridge	Non-coding Y RNAs as regulators of vertebrate chromosomal DNA replication
Mike Stark	University of Dundee	Regulation of yeast tRNA modification through Elongator phosphorylation
Kevin Mitchell	TCD	Wiring the brain with semaphorins
Sven Horke	Johannes Gutenberg-University Mainz	Redox-signaling by PON2 and its role in stress resistance and cancer
Juri Rappsilber	University of Edinburgh	Hypothesis generation from hopeless data: Chromosomes defined by fuzzy proteomics
Stefan Grimm	Imperial College London	Screening for apoptosis genes: Novel insights into signalling for cell death
Alan Diehl	Abramson Family Cancer Institute, University of Pennsylvania	Regulation of tumor growth and survival by the PERK kinase
Andrew Russo	University of Iowa	RAMPing Up a Neuropeptide: Implications for Migraine

Caroline Jefferies	RSCI	Target Identification for Lupus treatment - focus on TLR signalling
Edward Eivers	Howard Hughes Medical Institute. University of California	Mad phosphorylation controls embryonic stem cell fate via bone morphogenic protein (BMP) or wnt
Juan Mendez	CNIO Madrid	A new role for the cohesin complex in human DNA replication
Marc Birtwistle	UCD	Systems biology: A brief introduction and application to understanding the consequences of cell-to-cell variability in mammalian protein expression noise

## 2009-2010

Martin Lavin	Queensland Institute of Medical Research	The role of Rad50 in the DNA damage response
Sergei Kozlov	Queensland Institute of Medical Research	DNA Damage and ATM Kinase Activation: How to embrace the complexity?
Markus Rehm	Royal College of Surgeons in Ireland	Biophotonic and systems biological investigation of cell death signaling
Tom Misteli	National Cancer Institute, NIH	An unexpected link between nuclear architecture and aging
Claire Wyman	Erasmus University Medical Center, Rotterdam	Molecular Machines of DNA Break Repair: What they look like and how they work
Joao Matos	Cancer Research UK, London Research Institute	Control of chromosome segregation in meiosis
Sanjeev Gupta	NUI Galway	The role of microRNAs in ER stress response
Neil Perkins	Dept. of Cellular & Molecular Medicine, University of Bristol	Regulation of Cancer Cell Proliferation and Survival by NF-kappaB
Carl Smythe	Department of Biomedical Science, The University of Sheffield	Some S-phase surveillance mechanisms!
Gerhard Schlosser	Zoology, Martin Ryan Institute for Marine Science, NUI Galway	Induction, specification and differentiation of vertebrate cranial placodes
Didier Trouche	Université Paul Sabatier/ CNRS, Toulouse	Role of the histone H2A.Z chaperone p400 in DNA damage response and repair
Zuzana Koledová	Palacky University, Olomouc	Centrosomal decisions on self-renewal in mouse embryonic stem cells
Haico Van Attikum	Leiden University Medical Centre	Chromatin remodelers: new players in the DNA damage response in yeast and human cells

## 2008-2009

Derek Richard	QIMR Brisbane	hSSB1, a central player in DNA repair
Guillermo	CNIO Madrid	Molecular basis of recognition and

Montoya		repair of the human Xeroderma Pigmentosum Group C gene by engineered homing endonuclease heterodimers
Michael Neuberger	MRC LMB Cambridge	Immunity through DNA deamination
Luca Pellegrini	Cambridge University	Structure and function of macromolecular complexes important for DNA repair and replication
Philip Newsholme	UCD	Metabolic regulation of insulin secretion
Catherine Green	Cambridge University	Forks and factories - replicative processes in human cells
Rod Ceredig	REMEDI, NUI Galway	The Radiobiology of T cells
Rita Cha	National Institute for Medical Research, London	Mechanism of fragile site expression following inactivation of Mec1, the budding yeast ATR homolog
Madalena Tarsounas	Oxford University	Homologous recombination activities in telomere maintenance and genomic stability
Philippe Pasero	Institute of Human Genetics, CNRS, France	Maintenance of genome integrity during DNA replication in yeast and in human cells
Wendy Bickmore	MRC Human Genetics Unit, Edinburgh	Linking spatial organisation of the nucleus with gene expression
Peter Vandenaabeele	VIB Department for Molecular Biomedical Research, University of Gent, Belgium	Caspase-7, proteolytic specificity and role in inflammation
Tsuyoshi Ikura	Tohoku University School of Medicine	Chromatin dynamics in DNA damage response
Darren Monckton	University of Glasgow	Myotonic dystrophy: complex repeats in a complex disorder
<b>Biochemistry/ Chemistry Joint Seminars</b>	Departments of Chemistry & Pathology, University of Virginia	Innovative mass spectrometry technology for study of cell signalling
Donald F. Hunt	Department of Biological Chemistry, John Hopkins University	Extensive Crosstalk Between GlcNAcylation and Phosphorylation: Roles in Signaling, Transcription and Human Disease
Gerald W. Hart		
Fumiko Esashi	Weatherall Institute of Molecular Medicine, Oxford	Getting into and out of DNA repair: insights from BRCA2 studies
Oskar Fernandez-Capetillo	CNIO Madrid	Intrauterine programming of aging and other ATR stories
Dan Bradley	TCD	From Milesius to Niall of the Nine Hostages; genetic insights into

		Irish origins
Adrian Bracken	TCD	A set of transcription factors that regulate stem cell fate decisions and are implicated in cancer
Brian Burke	Sigma Life Sciences	Targeted genome editing in mammalian cells using engineered zinc finger nucleases
Roberta Gottlieb	BioScience Center San Diego State University	Cardioprotection requires taking out the trash
Song Tan	Penn State	Molecular recognition of the nucleosome by chromatin enzymes
Anthony Wood	Harvard Medical School	From the germline to the midline...and back? A zebrafish tale of IGF signaling
Elaine Dunleavy	Institut Curie/ CNRS	Deposition of the histone H3 variant CENP-A at human centromeres
Raymond Meyn	University of Texas, M.D. Anderson Cancer Center, Houston	Receptor Signaling as a Regulatory Mechanism of DNA repair
Lisa Bouchier-Hayes	Department of Immunology, St. Jude Children's Research Hospital, Memphis	Lighting up the pathways to cell death: Fluorescent Microscopy Approaches to Studying Apoptosis
<b>2007-2008</b>		
Alan Lehmann	GDSC, U. Sussex	Regulation of translesion synthesis in human cells
Richard Meehan	MRC HGU Edinburgh	Will the real Dnmt1 stand up? Non-catalytic roles for the maintenance methyltransferase, Dnmt1, in development and disease.
David Gillespie	Beatson, U. Glasgow	Keeping DNA damage and replication in Chk to counter cancer
Martin Lavin	Queensland Inst. for Medical Research	ATM and the Mre11 complex combine to recognise and signal DNA double strand breaks
Shunichi Takeda	Kyoto University Medical School	Reverse genetic study of DNA damage response in chicken DT40 cells
Vincent Cunliffe	Sheffield University	Epigenetic control of neural fates in the developing zebrafish CNS
Helfrid Hochegger	GDSC, U. Sussex	Cdk1 independent activation of Aurora kinase A at the G2/M transition
Peter Fraser	Babraham Inst., Cambridge	Transcription factories and nuclear organization of the genome
Michal Goldberg	Hebrew University, Jerusalem	A crosstalk between the DNA damage response and cell cycle regulation: MDC1 interacts with the APC/C
Sheila Willis	Forensic Science Laboratory, Garda HQ	DNA profiling in forensic science
Denise Barlow	Centre for Molecular Medicine, AAS, Vienna	Gene silencing in imprinted gene clusters by macro ncRNAs
Maria Pia Longhese	U. Milan	Mec1 and Tel1 functions in detecting and signalling

		DNA lesions
Tony Carr	GDSC, U. Sussex	Replication fork arrest at a palindrome creates gross chromosomal rearrangements
Mark Winey	University of Colorado at Boulder	Assembly of microtubule organizing centers
Jose-Ramon Murguia	U. Valencia	Molecular pharmacology with budding yeast: the antitumour agent beta-lapachone
Aoife McLysaght	Trinity College Dublin	Interacting gene clusters and the evolution of the vertebrate immune system

## 2006-2007

Paolo Plevani	U. Milan	Functional interplay among chromatin structure, checkpoint activation and DNA repair
Gerard Cagney	UCD	Trying to understand the cell using protein interactions
David Lydall	Newcastle U	Living with chromosome ends
Steve Bell	Cambridge U	DNA replication in the third domain of life
Klaudia Brix	International U Bremen	Cysteine cathepsins of keratinocytes perform their functions in unexpected cellular locations
Jessica Downs	Cambridge U	Protective packaging for DNA- how chromatin facilitates DNA repair
Angus Lamond	U Dundee	Studying protein dynamics using a dual approach of quantitative proteomics and fluorescence imaging
Camilla Sjögren	Karolinska Inst Stockholm	DNA-damage induced sister chromatid cohesion - regulation and function
Kevin Hiom	MRC Laboratory of Molecular Biology, Cambridge	The role of the Breast Cancer susceptibility gene1 (BRCA1) in human disease
Paul Mullan	Queen's University Belfast	BRCA1, a predictive marker of chemotherapy responses
Aidan Doherty	GDSC, U Sussex	Many ways to make ends meet: Mechanisms of DNA double-strand break repair
Ray Waters	Cardiff U	Nucleotide excision repair and chromatin
Alain Verreault	U Montreal	Histone H3 K56 acetylation: the pros and cons of exposing your chromosomes
Achille Pellicioli	U Milan	Regulation of Rad53 kinase throughout cell cycle checkpoints in yeast

## 2005-2006

Michael Keogh	Harvard Medical School	A phosphatase complex required for dephosphorylation of gamma-H2AX and DNA damage checkpoint recovery in <i>S. cerevisiae</i>
James Brown	Queensland Institute of	hSMG-1 and the cellular response to

	Medical Research	DNA damage
Axel Behrens	CRUK, Lincoln's Inn Field Laboratories	Identification of a novel cofactor essential for ATM activity
Brian McStay	U Dundee	How ribosomal gene chromatin seeds formation of the nucleolus
Niall Howlett	U Michigan	Understanding the role of the Fanconi anaemia pathway in the maintenance of genomic stability
Carolyn Price	U Cincinnati	Making caps for chromosomes: telomere protection and processing
Robert Lahue	U Nebraska Medical Center	Triplet repeat instability and human disease
Alun Davies	Cardiff School of Biosciences	Growth factors and signalling in sympathetic neuron development
Eric Bullinger	NUI Maynooth	Dynamic modelling, simulation & analysis - useful for understanding biology?
Boris Turk	Jozef Stefan Institute, Ljubljana	Cysteine cathepsins and their signaling pathways to apoptosis
Ryoko Kuriyama	U Minnesota	Assembly of the MTOC/centrosome in cancer cells
Sean Doyle	NUI Maynooth	Big proteins making small peptides-non-ribosomal peptide synthesis in <i>Aspergillus fumigatus</i>
Wallace Arthur	NUI Galway	Evolution and development of arthropod segments: attempting to explain an odd pattern
Helle Ulrich	CRUK, Clare Hall Laboratories	Control of DNA damage tolerance and mutagenesis by ubiquitin and SUMO
Matthew Weitzman	Salk Institute	Insights into DNA repair from the battleground of virus-host interactions
Stephen Rea	EMBL	Characterization of the human MSL complex reveals a role in tumorigenesis
Xavier Fant	U Edinburgh	Cell cycle-dependent changes of the pericentriolar material
Julie Cooper	CRUK, Lincoln's Inn Field Laboratories	Telomeres and the challenges to chromosome integrity
<b>2004-2005</b>		
Thanos Halazonetis	Wistar Inst, Philadelphia	DNA damage checkpoints and cancer
Ciaran Regan	UCD	Mechanisms of memory consolidation as therapeutic targets
Mark O'Driscoll	MRC GDSC, Sussex	Seckel syndrome: a new DNA damage response disorder
David Gillespie	Beatson, Glasgow	Keeping DNA damage and replication in Chk
Kay Ohlendieck	NUI Maynooth	Abnormal calcium handling in muscular dystrophy
Alain Verrault	CRUK	Regulation of nucleosome assembly and other histone tales

Marco Foiani	FIRC, Milan	Checkpoint-mediated mechanisms controlling chromosome integrity
Catherine Godson	UCD	Differential gene expression: biomarker and therapeutic target discovery in the microvascular complications of diabetes
Bob Michell	Birmingham	Phosphoinositides-rare lovely membrane phospholipids with diverse functions
Roland Kanaar	Erasmus University, Rotterdam	Dynamic organization of chromosomes and DNA damage repair proteins
Derek Doherty	NUI Maynooth	Immune recognition of lipid antigens in the human liver
Tom Moore	UCC	Genetic conflicts in pregnancy
Simon Williams	Texas Tech University Health Sciences Centre	Functions of ubiquitin-related proteins in transcriptional regulation, hematopoietic differentiation and blood disorders
Jim Johnston	Queen's University Belfast	SOCS and DUBs - novel regulators of cytokine responses
Howard Lindsay	MRC GDSC, Sussex	Analysis of ATR-dependent signaling pathways using <i>Xenopus</i> cell-free extracts
Kevin Sullivan	Scripps Research Institute, La Jolla	Functional activities of centromeric chromatin in the cell cycle
Bill Earnshaw	Edinburgh University	How chromosomal proteins regulate mitosis
Penny Jeggo	MRC GDSC, Sussex	A novel role for ATM in DNA double-strand break repair
Charles Spillane	UCC	Genomic imprinting: epigenetics & evolution

## 2003-2004

Mark Lawlor	TCD/St James'	Challenges in Cancer - the potential for Molecular Medicine
Heinz-Peter Nasheuer	NUI Galway	Regulation of Human Replication Protein A
Rosemary O'Connor	UCC	Signalling from the IGF-1 Receptor and its Regulation in Tumour Cells
Rainer Pepperkok	EMBL	Studying Vesicular Coat Assembly and Membrane Recruitment in Living Cells
Andrew Bowie	TCD	The Role of Toll-like Receptors in Anti-viral Innate Immunity: Lessons from Vaccinia
Minoru Takata	Kawasaki Medical School	Genetic analysis of Fanconi anemia pathway using chicken B cell DT40
Pete Humphries	TCD	Retinopathies and Gene Therapy
Torsten Krude	Cambridge	Initiation of human chromosomal DNA replication
Kay Nolan	UCD	Mannose-6-P/ IGF2R signalling
Michael Hengartner	Zurich	Apoptotic pathways in <i>C. elegans</i>
Jonathon	Cambridge	Getting through Mitosis

Pines		
Therese Kinsella	UCD	Intracellular Signalling through Prostacyclin Receptors