

INVITED SPEAKERS 2008

Fabrizio d'Adda di Fagagna, Milan, Italy
Molecular bases of cellular senescence

Bruce Alberts, San Francisco, CA, USA
Biology past and biology future: where have we been and where are we going?

Haico van Attikum, Leiden, The Netherlands
Chromatin and the DNA damage response

Bradley Bernstein, Boston, MA, USA
Genome-wide maps of chromatin state in pluripotent and multipotent cells

Eveline Bleiker, Amsterdam, The Netherlands
Psycho-oncogenetics: opportunities for a center of excellence

Thijn Brummelkamp, Boston, MA, USA
Organ size, stem cells and loss of function genetics in mammals

Luc Brunsveld, Dortmund, Germany
Chemical biology approaches for the nuclear receptor – cofactor interaction

Dmitry Bulavin, Singapore
Wip1 phosphatase to trace adult stem cells and wip-out diseases

Harmen Bussemaker, New York, NY, USA
Predicting expression from sequence using data-driven models of (post-)transcriptional networks

Anthony Chalmers, Brighton, UK
Radiation plus PARP inhibition in the treatment of high grade glioma: enhancing the therapeutic ratio

Gerhard Christofori, Basel, Switzerland
Distinct mechanisms of tumor cell invasion and metastasis

Sarah Darby, Oxford, UK
Effects of breast radiotherapy on cardiovascular disease

Heran Darwin, New York, NY, USA
Proteasomes, a new ubiquitin-like protein, and tuberculosis

Marileen Dogterom, Amsterdam, The Netherlands
Dynamics and force generation of cytoskeletal systems in vitro and in vivo

Anindya Dutta, Charlottesville, VA, USA
Genomic instability of mammalian cells from disorders of replication

Ger van den Engh, Seattle, WA, USA
Cell sorters for advanced research: how standard flow cytometers can be adapted for microbiology, large, fragile cell analysis and single-cell genomics

Ype Elgersma, Rotterdam, The Netherlands
Oncogenes on my mind: the role of the RAS/ERK/mTOR pathways in neuronal function

Emer S. Ferro, São Paulo, Brazil
Intracellular peptides as natural regulators of cell signaling

Alan Fersht, Cambridge, UK
The tumour suppressor p53: structure, function-rescue

Pier Paolo di Fiore, Milan, Italy
Integration of EGFR signaling and traffic

Judy Garber, Boston, MA, USA
Triple negative breast cancer: An update

Kenneth Gilhuijs, Amsterdam, The Netherlands
Multi-modality image analysis to guide diagnosis and therapy of cancer

Ernesto Guccione, Milan, Italy
Histone Methylation: Regulator of chromatin activity and transcription factor binding

Peter van Haastert, Groningen, The Netherlands
Navigation of amoeboid cells in chemical gradients

William Hahn, Boston, MA, USA
Functional genomics, experimental models and cancer genes

Benjamin Haibe-Kains, Brussels, Belgium
Gene modules, breast cancer subtypes and prognosis

Samir Hanash, Seattle, WA, USA
Mining the cancer proteome for diagnostic markers and therapeutic targets

Kristian Helin, Copenhagen, Denmark
Epigenetics, stem cells and cancer

Thomas Helleday, Oxford, UK
Homologous recombination in mammalian cells

Jeroen den Hertog, Utrecht, The Netherlands
Phosphotyrosine signaling in gastrulation cell movements: modeling Noonan syndrome in zebrafish

Ian Hickson, Oxford, UK
Genome instability and cancer: lessons from analysis of Bloom's syndrome

Tan Ince, Boston, MA, USA
Cell of origin and neoplastic phenotype

Metello Innocenti, Frankfurt, Germany
Actin dynamics in membrane protrusion and endocytosis

Stefan Jakobs, Goettingen, Germany
Fluorescence nanoscopy: Taking a closer look at cellular structures

Stefan Jentsch, Martinsried, Germany
Role of Ubiquitin and Sumo in DNA transactions

Joseph Jiricny, Zürich, Switzerland
When DNA repair kills: cytotoxic processing of methylation damage and 5-fluorouracil

Jagath Reddy Junutula, San Francisco, CA, USA
Targeted cancer chemotherapy: new insights into antibody drug conjugates

Sander van Kasteren, Dundee, Scotland
Imaging inflammation – novel probes for detecting vascular selectin upregulation

Patrick Kemmeren, Utrecht, The Netherlands
An accurate physical interactome map of *saccharomyces cerevisiae*

Batsheva Kerem, Jerusalem, Israel
Regulation of chromosomal instability in response to replication stress

Nevan Krogan, San Francisco, CA, USA
Biology without bias: Functional insights from genetic and physical interaction maps

Peter Kuhn, La Jolla, CA, USA
Circulating tumor cells in human blood – a point of entry for cancer diagnosis, prognosis and therapy management

Alan Lehmann, Brighton, UK
Replication of DNA damage and translesion synthesis

Susanne Lens, Utrecht, The Netherlands
The chromosomal passenger complex and the control of chromosomal stability

Daniel Low, St. Louis, MO, USA
Modeling human breathing motion for radiation therapy and dose response assessments

Umar Mahmood, Charlestown, MA, USA
Oncological applications of optical molecular imaging

Tomi Mäkelä, Helsinki, Finland
Mesenchymal LKB1 is required for suppression of polyposis and TGF β signaling

Elisabetta Marangoni, Paris, France
Cancer stem cells and residual disease

Eric May, Baden-Baden, Germany
Communicating difficult topics effectively

Martin McMahon, San Francisco, CA, USA
BRAF-induced tumor initiation, progression and senescence in mouse models of lung cancer and melanoma

Tom Muir, New York, NY, USA
The histone code explored through protein semisynthesis

Alexander van Oudenaarden, Cambridge, MA, USA
Signal processing, perfect adaptation and evolvability in the yeast osmo-sensing network

KJ Patel, University of Cambridge, UK
The FA pathway DNA repair pathway in model organisms

Jan-Michael Peters, Vienna, Austria
How chromosomes are segregated in mitosis

Richard Peto, Oxford, UK
Changing cancer mortality

Ruth Pfeiffer, Bethesda, MA, USA
Probability of detecting disease-associated Single Nucleotide Polymorphisms (SNPs) in single stage or multi-stage case-control genome-wide association studies

Hidde Ploegh, Cambridge, MA, USA
Ubiquitin and a ubiquitin-like modifier that targets RNA

Marie France Poupon, Paris, France
Patient derived breast cancer xenografts a tool for drug-efficacy evaluation

Oliver Rando, Worcester, MA, USA
Static and dynamics genome-wide views of yeast chromatin

Caetano Reis e Sousa, London, UK
Innate regulation of dendritic cell uncton

Chris Reutelingsperger, Maastricht, The Netherlands
Molecular imaging of the biomarker phosphatidylserine with Annexin A5. Shifting from a diagnostic towards a therapeutic arena

Sjoerd Rodenhuis, Amsterdam, The Netherlands
Response prediction and response-monitoring in the neoadjuvant treatment of breast cancer

Rinat Rotem-Jehudar, Yavne, Israel
CT-O11, a humanized PD-1-interacting antibody, for the treatment of hematological malignancies and solid tumors

Sanne Schagen, Amsterdam, The Netherlands
Cognitive problems following cancer and cancer treatment

Ben Scheres, Utrecht, The Netherlands
Stem cells: tales from another kingdom

Eran Segal, Rehovot, Israel
Cracking the code of gene regulation

David Sherwood, Durham, NC, USA
Breaching the basement membrane: Anchor cell invasion in *C. elegans*

Jan Jakob Sonke, Amsterdam, The Netherlands
Sharpening the soft-knife

Hergen Spits, San Francisco, CA, USA
The role of STAT5 in development of normal and malignant human B cells

John Sundberg, Bar Harbor, MA, USA
Getting old at the Jackson Laboratory: an overview of the Jackson Aging Center

Jack Szostak, Boston, MA, USA
What can we learn about the origin of life from efforts to design an artificial cell

Stepen Taylor, Manchester, UK
How do anti-mitotic drugs kill cancer cells?

Heiddis Valdimarsdottir, New York, NY
Emotion, cognition, and biology in cancer: Theories and interventions

Richard Vallee, New York, NY, USA
Live in vivo imaging of molecular motor-driven brain stem cell division and migration

Lidia Vasilieva, Boston, MA, USA
Role of transcription-coupled RNA degradation in heterochromatic silencing

Karin de Visser, Amsterdam, The Netherlands
The inflammatory tumor microenvironment: tumor-protective or tumor-promoting?

Robert Weinberg, Cambridge, MA, USA
Mechanisms of malignant progression

Katarina Wolf, Nijmegen, The Netherlands
Molecular determinants of tumor cell invasion and plasticity