

# 50 YEARS OF HISTONE ACETYLATION

## BARCELONA CONFERENCES ON EPIGENETICS AND CANCER

Wednesday, October, 1<sup>st</sup>, 2014

CAIXAFORUM. AVGDA FRANCESC FERRER I GUÀRDIA, 6-8. BARCELONA

9:15 **WELCOME**

9:30 **SESSION 1. HISTONE ACETYLATION: GENERAL CONCEPTS**

Chair: **Joan Ausió**, University of Victoria, Victoria, Canada

9:30 **What Bacteria Lack: the Nucleosome, its Acetylation and Why Eukaryotes Are So Successful**

**Bryan Turner**, University of Birmingham, Birmingham, UK

10:00 **Global and Specific Responses of the Histone Acetylome to Systematic Perturbation**

**Peter Becker**, Ludwig-Maximilians University of Munich, Munich, Germany

10:30 **The Biology of HDACs**

**Ed Seto**, Moffit Cancer Center, Florida, USA

11:00 **Coffee break**

11:30 **SESSION 2. ACETYLATION, CHROMATIN STRUCTURE AND GENE EXPRESSION (I)**

Chair: **Ferran Azorín**, Institute for Research in Biomedicine (IRB) and Molecular Biology Institute of Barcelona (IBMB-CSIC), Barcelona, Spain

11:30 **Epigenetic Modifications and Their Function**

**Tony Kouzarides**, The Gurdon Institute, Cambridge, UK

12:00 **Histone Acetyltransferase Complexes**

**Jerry Workman**, Stowers Institute for Medical Research, Kansas city, USA

12:30 **RNA and Histone Modifications as Modulators of Genome Integrity**

**Andrés Aguilera**, Andalusian Center for Molecular Biology and Regenerative Medicine, Sevilla, Spain

13:00 **Lunch and Poster session**

B-DEBATE IS AN INITIATIVE OF:

WITH THE COLLABORATION OF:



# 50 YEARS OF HISTONE ACETYLATION

## BARCELONA CONFERENCES ON EPIGENETICS AND CANCER

Wednesday, October, 1<sup>st</sup>, 2014

CAIXAFORUM. AVGDA FRANCESC FERRER I GUÀRDIA, 6-8. BARCELONA

- 15:00 **SESSION 3. ACETYLATION, CHROMATIN STRUCTURE AND GENE EXPRESSION (II)**  
Chair: **Esteban Ballestar**, Cancer Epigenetics and Biology Program (PEBC-IDIBELL), Barcelona, Spain
- 15:00 **Three Key Factors of Acetylation: Location, Location, Location**  
**Colyn Crane-Robinson**, University of Portsmouth, Portsmouth, UK
- 15:30 **Modifying Chromatin to Modulate Chromosomal Functions**  
**Lorraine Pillus**, University of California San Diego, California, USA
- 16:00 **Chromatin Fiber Allostery and the Epigenetic Code**  
**Jean-Marc Victor**, University of Pierre & Marie Curie, Paris, France
- 16:15 **HDAC1 and HDAC2 – Twins or Cousins?**  
**Astrid Hagelkruys**, Medical University of Vienna, Viena, Austria
- 16:30 **Coffee break**
- 16:45 **Epigenomics, Dynamic Histone Acetylation and the Regulation of Gene Expression**  
**James Davie**, Manitoba Institute of Child Health, Manitoba, Canada
- 17:15 **Global Chromatin Acetylation and Transcriptome Amplification During Lymphocyte Activation**  
**Rafael Casellas**, NIAMS-NCI, National Institutes of Health, Maryland, USA
- 17:45 **HDAC7: A Novel Master Regulator in B Lymphocyte Development**  
**Maribel Parra**, Cancer Epigenetics and Biology Program (PEBC-IDIBELL), Barcelona, Spain
- 18:00 **Poster session and networking cocktail**

B-DEBATE IS AN INITIATIVE OF:

WITH THE COLLABORATION OF:



# 50 YEARS OF HISTONE ACETYLATION

## BARCELONA CONFERENCES ON EPIGENETICS AND CANCER

Thursday, October, 2<sup>nd</sup>, 2014

CAIXAFORUM. AVGDA FRANCESC FERRER I GUÀRDIA, 6-8. BARCELONA

- 9:00 **SESSION 4. HISTONE ACETYLATION IN PHYSIOLOGY AND DISEASE (I)**  
Chair: **Albert Jordan**, Molecular Biology Institute of Barcelona (IBMB-CSIC), Barcelona, Spain
- 9:00 **Regulation of (de)Acetylation: Linking the Acetyl-Proteome to Metabolism**  
**John Denu**, University of Wisconsin, Wisconsin, USA
- 9:30 **Natural Metabolites as Regulators of Epigenetic Enzymes**  
**Eric Verdin**, University of California, San Francisco, USA
- 10:00 **A New Role for SirT6 in the Stress Response Mediated by NF- $\kappa$ B**  
**Alejandro Vaquero**, Cancer Epigenetics and Biology Program, PEBC-IDIBELL, Barcelona, Spain
- 10:30 **Increased Genome Instability and Accelerated Aging in SIRT7 Knockout Mice Through Impaired Non-Homologous End-joining Repair**  
**Lourdes Serrano**, Rutgers: the State University of New Jersey, New Jersey, USA
- 10:45 **Analysis of Drosophila H4-K16ac Function in vivo via Using Histone Point Mutations**  
**Ömer Copur**, Max Planck Institute of Biochemistry, Martinsried, Germany
- 11:00 **Coffee break**
- 11:30 **SESSION 5. HISTONE ACETYLATION IN PHYSIOLOGY AND DISEASE (II)**  
Chair: **Marcus Buschbeck**, Institute of Predictive and Personalized Medicine of Cancer, Badalona, Spain
- 11:30 **Epigenomics of Alzheimer's disease**  
**Li-Huei Tsai**, Howard Hughes Medical Institute, Chevy Chase, USA
- 12:00 **Dissecting the Roles of Acetylation in p53 Regulation**  
**Wei Gu**, Columbia University, New York, USA
- 12:30 **Histone Modifications and Cancer: From Knowledge to Therapies**  
**Manel Esteller**, Cancer Epigenetics and Biology Program (PEBC-IDIBELL), Barcelona, Spain
- 13:00 **Lunch and Poster session**

B-DEBATE IS AN INITIATIVE OF: WITH THE COLLABORATION OF:



# 50 YEARS OF HISTONE ACETYLATION

## BARCELONA CONFERENCES ON EPIGENETICS AND CANCER

Thursday, October, 2<sup>nd</sup>, 2014

CAIXAFORUM. AVGDA FRANCESC FERRER I GUÀRDIA, 6-8. BARCELONA

**14:30 SESSION 6. BEYOND HISTONE ACETYLATION**

Chair: **Luciano di Croce**, Centre for Genomic Regulation (CRG), Barcelona, Spain

**14:30 Novel Epigenetic Signatures of Wild Type and Mutant p53 Transcriptional Activity**  
**Shelley Berger**, University of Pennsylvania, Philadelphia, USA

**15:00 H3K27 Methyltransferases and Demethylases as Regulators of Vertebrate Nervous System Development**  
**Marian Martinez-Balbas**, Molecular Biology Institute of Barcelona (IBMB-CSIC), Barcelona, Spain

**15:30 Development of Histone Dmethylase inhibitors for Acute Leukemia**  
**Tamara Maes**, Oryzon Genomics, Barcelona, Spain

**15:45 Coffee break**

**16:15 Epigenetic Coordination of Pausing & Cell Proliferation**  
**Olivier Cuvier**, University of Paul Sabatier, Toulouse, France

**16:30 Jarid2 Regulates Nanog and Planar Cell Polarity Pathways Required for ESC Differentiation and Early Embryo Development**  
**David Landeira**, University of Granada, Granada, Spain

**16:45 Conclusions and End of the Meeting**

B-DEBATE IS AN INITIATIVE OF:

WITH THE COLLABORATION OF:

