

BARCELONA BIOMED CONFERENCE
The Regulation of Chromatin Functions
March 26-28, 2007, IRB Barcelona, Spain

Conference Programme

MONDAY, MARCH 26

Registration, welcome and opening remarks

Morning session: Centromeres/Telomeres/Heterochromatin

Chair: Victor Corces, Johns Hopkins University (Baltimore, MD, USA)

9.45 CENP-A chromatin at fission yeast centromeres
Robin Allshire, Wellcome Trust Centre for Cell Biology,
University of Edinburgh, (Edinburgh, UK)

10.15 Centromeric localisation of *Drosophila* CENP-A/CID
Ferran Azorín, IRB Barcelona/CSIC (Barcelona, Spain)

10.45 Coffee break and poster session

11.30 Structural and functional relationships between heterochromatin and euchromatin
Sergio Pimpinelli, Istituto Pasteur, Fondazione Cenci Bolognetti,
Dip. Genetica e Biologia Molecolare, Università La Sapienza
(Rome, Italy)

12.00 The regulation of telomere structure during cell cycle
Hans J Lipps, Institute of Cell Biology, University
Witten/Herdecke (Witten, Germany)

12.30 Short talk: Large-scale chromatin conformation and gene expression at the fragile X and CFTR locus
Nele Gheldof, University of Massachusetts Medical School
(Worcester, MA, USA) (15 min)

13.00 Lunch (Restaurant Club Esportiu Laietà)

Afternoon session: Histone modifications

Chair: Manel Esteller, CNIO (Madrid, Spain)

15.15 Function of chromatin modifications
Tony Kouzarides, The Gurdon Institute, University of Cambridge
(Cambridge, UK)

15.45 A molecular understanding of epigenetics
Danny Reinberg, NYU-School of Medicine (New York, USA)

- 16.15 Coffee break and poster session**
- 17.00 Factor and histone covalent modifications in genome regulation**
Shelley L Berger, The Wistar Institute (Philadelphia, PA, USA)
- 17.30 *In vivo* functions of histone modifying enzymes**
Sharon R Dent, Univ. Texas M.D. Anderson Cancer Center (Houston, TX, USA)
- 18.00 Signaling via histone kinases in hormonal gene regulation**
Miguel Beato, Center for Genomic Regulation (Barcelona, Spain)
- 18.45 Aperitif (Cafeteria of the Parc Científic de Barcelona)**

TUESDAY, MARCH 27

Morning session: Chromatin domains/nuclear organisation

Chair: Genevieve Almouzni, UMR 218 CNRS, Institute Curie (Paris, France)

- 9.45 Setting the boundaries of chromatin domains and nuclear organization**
Victor Corces, Biology Department, Johns Hopkins University (Baltimore, MD, USA)
- 10.15 Polycomb group proteins and the cell nucleus**
Giacomo Cavalli, Institute of Human Genetics, CNRS (Montpellier, France)
- 10.45 Coffee break and poster session**
- 11.30 The H3K9 methylation and RNAi pathways regulate nuclear architecture and genome stability in *Drosophila***
Gary Karpen, Lawrence Berkeley National Laboratory and UC Berkeley (Berkeley, CA, USA)
- 12.00 Epigenetics and epigenomes**
Manel Esteller, Centro Nacional de Investigaciones Oncológicas (Madrid, Spain)
- 12.30 Short talk: Control of gene expression by the Hog1 stress-activated protein kinase**
Francesc Posas, Cell Signaling Unit, Departament de Ciències Experimentals i de la Salut, Universitat Pompeu Fabra, PRBB (Barcelona, Spain) (15 min)
- 13.00 Lunch (Restaurant Club Esportiu Laietà)**

Afternoon session: Chromatin assembly/remodelling

Chair: Shelley L Berger, The Wistar Institute (Philadelphia, PA, USA)

- 15.15 Histone replacement and nucleosome depletion at cis-regulatory elements in *Drosophila***
Steve Henikoff, HHMI and Basic Sciences Division, Fred Hutchinson Cancer Research Center (Seattle, WA, USA)
- 15.45 Chromatin assembly factors, histone H3 variants and cell cycle**
Genevieve Almouzni, UMR 218 CNRS, Institute Curie (Paris, France)
- 16.15 Coffee break and poster session**
- 17.00 Targeting of *Drosophila* dosage compensation complex to the male X chromosome**
Peter B Becker, Adolf-Butenandt-Institut, Molekularbiologie (Munich, Germany)
- 17.30 Role of the INO80 chromatin remodeling enzyme in DNA damage and DNA replication checkpoint responses**
Craig L Peterson, Program in Molecular Medicine, University of Massachusetts Medical School (Worcester, MA, USA)
- 18.00 Heterochromatin: a versatile platform of the genome**
Shiv Grewal, Laboratory of Molecular Biochemistry and Molecular Biology, NCI, NIH (Bethesda, MD, USA)
- 21.30 Conference Dinner (Restaurant El Mirador, Palau de la Música)**

WEDNESDAY, MARCH 28

Morning session: RNAi and chromatin/silencing

Chair: Tony Kouzarides, The Gurdon Institute, University of Cambridge (Cambridge, UK)

- 9.45 Histone demethylases**
Yang Shi, Harvard Medical School (Boston, MA, USA)
- 10.15 Silencing of the genome through histone demethylation**
Ramin Shiekhattar, Center for Genomic Regulation (Barcelona, Spain)
- 10.45 Coffee break**
- 11.30 Silent running: RNA interference and heterochromatic silencing in plants and fission yeast**

Rob Martienssen, Cold Spring Harbor Laboratory (Cold Spring Harbor, NY, USA)

- 12.00 Possible roles in silencing for piRNAs**
Bob Kingston, Massachusetts General Hospital (Boston, MA, USA)
- 12.30 Short talk: A histone methylation-dependent code to impose ligand dependency for gene activation by nuclear receptors**
Ivan Garcia-Bassets, Howard Hughes Medical Institute,
Department of Medicine, University of California San Diego, (La Jolla, CA, USA) (15 min)
- 12.45 Concluding remarks and farewell (15 min)**