

CODING AND NON- CODING FUNCTIONS OF THE GENOME

BARCELONA CONFERENCE ON EPIGENETICS AND CANCER

Thursday, October, 29th, 2015

COSMOCAIXA BARCELONA . C/ ISAAC NEWTON 26 . BARCELONA

9:15 **Welcome**

9:30 **Keynote: Polycomb Complexes in Development and Disease**

Danny Reinberg, Howard Hughes Medical Institute, NYU School of Medicine, Smilow Research Center
Biochemistry Department, New York, USA

10:20 **SESSION 1: CHROMATIN IN STEM CELLS**

Chair: **Luciano de Croce**, Centre for Genomic Regulation, Barcelona, Spain

Role of ncRNAs in Transcription and Cancer

Tony Kouzarides, Gurdon Institute, University of Cambridge, UK

DNA Modifications: from Mechanisms to Genome-Wide Profiling in Cancers

François Fuks, Laboratory of Cancer Epigenetics, Université libre de Bruxelles, Belgium

11:20 **Coffee Break**

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11:50 SESSION 2: CHROMATIN ORGANIZATION

Chair: **Sonia Forcales**, Institut de Medicina Predictiva i Personalitzada del Càncer, Barcelona, Spain

The Function of the Histone Variant MacroH2A in Genome Architecture

Marcus Buschbeck, Josep Carreras Leukaemia Research Institute (IJC), Barcelona, Spain

Multivalent Binding of PWWP2A to H2A.Z Chromatin Regulates Chromosome Segregation and Organ Development

Sandra Hake, Adolf-Buetenandt-Institute - Molecular Biology, Ludwig-Maximilians-Universität (LMU), München, Germany

Short talk: "Signal-dependent Degradation of EZH2 Regulates Terminal Differentiation of Muscle Stem Cells"

Daniela Palacios, IRCCS Fondazione Santa Lucia, Roma, Italy

Novel Players in Chromatin

Robert Schneider, Institut de génétique et de biologie moléculaire et cellulaire, Illkirch, France

13:30 Lunch and Poster Session

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15:00 SESSION 3: SHAPING THE EPIGENOME

Chair: **Manel Esteller**, Institut d'Investigació Biomèdica de Bellvitge, Spain

Methyl-CpG Binding Domain Proteins: Guardians of the Epigenome

Cristina Cardoso, Cell Biology and Epigenetics, Department of Biology, Technische Universität Darmstadt, Germany

Short talk: "Novel Roles of Dnmt3A and Dnmt3B at Enhancers Regulate Human Epidermal Stem Cell Function"

Lorenzo Rinaldi, Centre for Genomic Regulation and Institute for Research in Biomedicine, Barcelona, Spain

Short talk: "Perinuclear Tethering and Silencing of Heterochromatin are Independent Processes Mediated by the Nuclear Envelope Protein Lem2"

Sigurd Braun, Ludwig Maximilian University, Munich, Germany

Epigenetic Mechanisms in Early Mammalian Development

Maria Elena Torres-Padilla, Institut de Génétique et de Biologie Moléculaire et Cellulaire, Illkirch, France

16:30 Coffee Break

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17:00 SESSION 4: EPIGENETICS AND CELL FATE DETERMINATION

Chair: **Albert Jordan**, Institut de Biologia Molecular de Barcelona (IBMB-CSIC), Spain

Short talk: "DOT1L Protects Neural Stem Cells from ER Stress In Vitro"

Nicole Hellbach, University of Freiburg, Freiburg, Germany

Short talk "Polycomb-Mediated Repression in Transgenerational Epigenetic Inheritance"

Filippo Ciabrelli, Institute of Human Genetics, Montpellier, France

Short talk: "The Role of PolyComb and RNA Polymerase 2 in Promoter-Centred 3D Chromatin Contact Networks"

Vera Pancaldi, Centro Nacional de Investigaciones Oncológicas, Madrid, Spain

Heritability of PolyComb-Repressed Chromatin

Jürg Müller, Max-Planck Institute of Biochemistry, Munich, Germany

One slide speed presentations

18:30 Poster session and Networking Cocktail

20:00 Conference Dinner

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9:30 SESSION 5: ncRNA AND ENHANCERS

Chair: **Ferran Azorin**, Institute for Research in Biomedicine (IRB), Barcelona, Spain

Gene Regulation Dynamics and Chromatin Architecture During Development and Evolution
José Luis Gomez-Skarmeta, Centro Andaluz de Biología del Desarrollo, Sevilla, Spain

The Role of Two Isoforms of Histone H2A.Z in Embryonic Stem Cells
Ragnhild Eskeland, Faculty of Mathematics and Natural Sciences, Oslo, Norway

Short talk: "Genomic Regulatory Architecture in Human Haematopoiesis Links Disease-Associated Variants with Their Target Genes"
Biola-Maria Javierre, The Babraham Institute, Cambridge, UK

Noncoding RNAs in Polycomb Regulation
Leonie Ringrose, Institute of Molecular Biotechnology of the Austrian Academy of Science, Vienna, Austria

11:15 Coffee Break

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11:45 SESSION 6: STEM CELL AND CANCER

Chair: **Marcus Buschbeck**, Josep Carreras Leukaemia Research Institute (IJC), Barcelona, Spain

Biogenesis and Mechanism of Action of Enhancer RNAs

Ramin Shiekhattar, University of Miami Health System, Miami, USA

Short talk: "Histone H3.3 is Required for Interstitial Heterochromatin in Mouse Embryonic Stem Cells"

Simon J. Elsässer, Science for Life Laboratory, Karolinska Institutet, Stockholm, Sweden

Enhancer Malfunction in Cancer

Ali Shilatifard, Department of Biochemistry and Molecular Genetics, Northwestern University Feinberg School of Medicine, Chicago, USA

13:00 Outlook to the BCEC 2016, Raúl Méndez (IRB)

13:05 Closing Remarks and End of Scientific Program

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