



XV Jornada de Cromatina i Epigenètica

Organitzada per la Secció de Cromatina i Epigenètica de la Societat Catalana de Biologia (SCB)



XV Annual Chromatin and Epigenetics symposium

Organized by the Chromatin and Epigenetics section of the Catalan Society of Biology (SCB) —Albert Jordan—

May 8, 2025

PROGRAM

9:00 Registration

9:20 Opening

Session I. Chairs: Alfred Cortès (ISGlobal) & Carles Ciudad (UB)

9:30-9:50 15min +5

Sara Sánchez (FSJD)

An Epigenetic Approach to the Treatment of Ewing Sarcoma

9:50-10:10 15min +5

Guillermo Vicent (IBMB-CSIC)

Unraveling the Role of YAP1 in Modulating Hormonal Response in Breast Cancer Cells

10:10-10:30 15min +5

Rafael Oliva (IDIBAPS-UB)

Nuclear proteome of the sperm cell, chromatin structure and its contribution to the embryo

10:30-10:50 15min +5

José Antonio Seoane (VHIO)

Leveraging DNA methylation as a proxy of exposome to uncover causes of early-onset colorectal cancer

10:50-11:00 Short talk 1

8min +2

Aleksey Lazarenkov (IJC, @José L. Sardina lab)

Unveiling the Role of TET2 in Chromatin Architecture and Gene Regulation During Myeloid Commitment and Leukemia

11:00-11:40 Coffee break and poster session

Session II. Chairs: Marcos F. Pérez (IBMB-CSIC) & José L. Sardina (IJC)

11:40-12:00 15min +5

Ferran Azorin (IBMB-CSIC, IRB)

Chromatin-nuclear envelope interactions

12:00-12:20 15min +5

Esteban Ballestar (IJC)

Exploring Epigenetic Mechanisms Shaping Myeloid Cell Function in the Tumor Microenvironment

12:20-12:40 15min +5

Albert Jordan (IBMB-CSIC)

Specificity of histone H1 variants in the organization and control of the genome

12:40-12:50 Short talk 2

8min +2

Oliver Meers (IJC, @Marcus Buschbeck lab)

MacroH2A Mediates Genome Regulatory Functions Through Its Basic, Unstructured Linker Domain

12:50-13:00 Short talk 3

8min +2

Paula Boldo (IR Sant Pau, @Israel Férnandez-Cadenas lab)

Sex-Stratified X-Chromosome Variants In Ischemic Stroke: Linking Genetic Risk To Chromatin State

13:00-13:10 Short talk 4

8min +2

Leone Albinati (CRG, @Renée Beekman lab)

Charting the genome activation history of tumor-related regulatory elements through DNA methylation studies

13:10-13:20 Short talk 5

8min +2

Cristina Moreta (UIC, @Roni Wright lab)

Harnessing Chromatin Control: Unraveling PARP1's Super-enhancer Dynamics in Breast Cancer

13:20-13:30 *Sponsor talk, webinar*

8min +2

Stefan Dillinger (Active Motif)

Genome-Wide Profiling of Histone Marks: Higher Throughput and Improved Quality

13:30-15:00 Lunch break, coffee and poster session

15:00-15:20 15min +5

Biola Javierre (IJC)

The 3D epigenome roadmap of human B cell differentiation sheds light on the mechanistic foundations of humoral immunity and B cell cancer susceptibility

15:20-15:40 15min +5

Jorge Ferrer (CRG)

Integration of transcription and splicing networks underlying diabetes mellitus

15:40-16:00 15min +5

Josep Jiménez (FSJD)

Integrative Epigenome and Chromatin Analyses Identifies SPATC1L as a Causal Locus for Childhood Obesity Development

16:00-16:20 15min +5

Aurora Ruíz (UAB)

Exploring the dynamics of chromatin folding across time-scales and cell types

16:20-16:40 15min +5

Tian Tian (VHIO)

Leveraging Patient-Derived Models for Biliary Tract Cancer Research

16:40-17:00 15min +5

Marc A. Martí-Renom (CNAG-CRG)

The discovery of fossil chromosomes

17:00 Closing and beers

POSTERS

1- Alexander Barclay (CNAG/CRG) @ Renom Lab

Structure-Based Genome Engineering

2- Alvaro Alcalde (IJC) @ Javierre Lab

Unveiling the Role of Polycomb in B Cell Differentiation: Insights from a PRC1-Deficient Mouse Model

3- Andrea Nieto (IJC) @ Javierre Lab

Integrative Multi-Omic Analysis Profiles Gene Regulatory Network Dynamism at Single-Cell Resolution Across Human B-cell Differentiation and its Implications for B-cell Malignancies

4- Binman Liu & Rafia U Saman (UAB) @ Moreno Lab

Evolutionary conservation and diversification of epigenetic memory of shade response in Brassicaceae

5- Claudia M Miralles (UIC) @ Wright Lab

In vivo CAM assays uncover a context-dependent tumor-suppressive function of GROa in triple-negative breast cancer.

6- Evangelos Manousakis (UIC) @ Wright Lab

CDKN1A/p21 chromatin binding alters breast cancer stem cell survival

7- Jonathan Blickenberger (IJC) @ Buschbeck Lab

Elucidating the role of the histone variant macroH2A2 in Ewing sarcoma

8- Laia Marine (IR Sant Pau) @ Gallego Lab

Epigenome-Wide Association Study Of Post-Stroke Respiratory Infections: Linking Epigenetics And Clinical Outcomes

9- Lucía Fanlo (IJC) @ Javierre Lab

p53 rapidly restructures 3D chromatin organization to trigger a transcriptional response

10- Luis Paños (IJC) @ Vaquero Lab

Role of SIRT7-mediated control of the One Carbon metabolism epigenetic regulation of aging

11- Marta López (IJC) @ Stik Lab

The role of 3D genome organization in E2A-PBX1 driven B-ALL

12- Paula López (IJC) @ Javierre Lab

The 3D epigenome roadmap of human B-cell differentiation sheds light on the mechanistic foundations of humoral immunity and B-cell cancer susceptibility

13- Paula Roquero (IJC) @ Buschbeck Lab

Loss-of-function screen identifies novel Cytarabine-sensitizing targets in Acute Myeloid Leukaemia (AML)

14- Yolanda Andres (IBMB-CSIC) @ Hernando Lab

Using CRISPR barcoding as a molecular clock to capture dynamic processes at single-cell resolution

15- Carla El Khouri (IBMB-CSIC) @ Hernando Lab

Novel approach to explore DNA damage responses throughout neurodevelopment

16- Jordi López (UAB) @ Roque Lab

Identification of proteins associated with specific genomic regions by targeted chromatin proteomics

17- María J Barrero (IIER-ISCIII)

Modeling an EHMT2-Associated Neurodevelopmental Disorder with Brain Organoids

18- Gabriel L Ecker-Eckhofen (ICM-CSIC) @ Piferrer Lab

Shared Methylation Regions (SMRs): a New Method in Comparative Epigenetics Used to Create a Multispecies Piscine Epigenetic Clock

Secretaries of SCB:

Mariàngels Gallego and Paqui Lorite

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