



Institut  
d'Estudis  
Catalans



Societat Catalana  
de **BIOLOGIA**

**XIV Jornada de Cromatina i Epigenètica**

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



Enabling Epigenetics Research

**XIV Annual Chromatin and Epigenetics symposium**

*Organized by the Chromatin and Epigenetics section of the  
Catalan Society of Biology (SCB)*

*—Albert Jordan—*

**May 10, 2024**

## PROGRAM

**9:00 Registration**

**9:20 Opening**

**Session I. Chair: Sergi Aranda (CRG)**

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**9:30-9:50** **15min +5**

**Sergi Cuartero** (IJC)

Transcriptional regulation by mutant CEBPA in AML

**9:50-10:10** **15min +5**

**Salvador Aznar** (IRB)

Epigenetic memory of fatty acid metabolism in disease and cancer

**10:10-10:30** **15min +5**

**Josefa Gonzalez** (IBE, UPF-CSIC)

The epigenetics effects of transposable elements are context dependent and not restricted to gene silencing

**10:30-10:50** **15min +5**

**Joan-Ramon Daban** (UAB)

Soft-matter properties of chromosomes and possible functional implications

**10:50-11:00** Short talk 1 **8min +2**

**Silvia Beato** (ICM-CSIC)

Epigenetic and transcriptomic changes associated with artificial induction of triploidy in the European sea bass (*Dicentrarchus labrax*)

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

**Session II. Chair: Sara Sánchez (SJD)**

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**11:40-12:00** **15min +5**

**Jordi Bernués** (IBMB-CSIC)

Linker histone H1 regulates homeostasis of heterochromatin associated cRNAs

**12:00-12:20** **15min +5**

**Montse Corominas** (UB)

Integrative analysis of the chromatin regulatory landscape during early liver regeneration

**12:20-12:40** **15min +5**

**Francesc Piferrer** (ICM-CSIC)

Environmentally-induced DNA methylation changes in fish under a global warming scenario.

**12:40-12:50** Short talk 2 **8min +2**

**Silvia González** (CRG)

The dynamic establishment of enhancer function

**12:50-13:00** Short talk 3 **8min +2**

**Caroline Mauvezin** (UB)

The toroidal nucleus: a novel indicator of chromosomal instability in cancer

**13:00-13:10** Short talk 4 **8min +2**

**Marie Christou-kent** (CRG)

CEBPA phase separation links transcriptional activity and 3D chromatin hubs

**13:10-13:20** Short talk 5 **8min +2**

**Meritxell Novillo** (CNAG)

Genomic Studies in Colorectal Cancer Progression

**13:20-13:30** *Sponsor talk* **8min +2**

**Chamseddine Kifagi** (Active Motif)

A Universal Spike-In Normalization Strategy for CUT&RUN, CUT&Tag, and ATAC-Seq

**13:30-14:30** *Lunch break, coffee and poster session*

**Session III. Chair: José Luís Sardina (IJC)**

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**14:30-14:50** **15min +5**

**Lorenzo Pascuali** (UPF)

Beta cell regulatory responses to lymphocytes activation and T1D

**14:50-15:10** **15min +5**

**María José Barrero** (ISCI)

Ehmt2 loss-of-function alterations cause a kleeftstra-like syndrome.

**15:10-15:30** **15min +5**

**Ángel Barco** (IN-UMH-CSIC)

Activity-dependent shuffling of KAT3 co-activators in hippocampal neurons

**15:30-15:50** **15min +5**

**Gregoire Stik** (IJC)

Phase separation as a driver of chromatin organisation and leukemogenicity.

**15:50-16:20** *Break and poster session*

**Session IV. Chair: *Maria José Barrero (ISCIII)***

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**16:20-16:40** **15min +5**

**Alicia Roque** (UAB)

Intrinsic disorder in the regulation of histone H1 protein levels

**16:40-17:00** **15min +5**

**Tian Tian** (VHIO)

Towards novel therapeutic strategies for NUT carcinoma.

**17:00-17:20** **15min +5**

**Joaquim Roca** (IBMB-CSIC)

Nucleosomal DNA has topological memory

**17:20-17:40** **15min +5**

**Luciano di Croce** (CRG)

Dissecting dynamics of chromatin functions in cell differentiation and cancer

**17:45 *Closing and beers***

## POSTERS

**1-Alba Irisarri** (UB) @ Griñán Lab

Neuroprotective effects of FTO inhibition in high-fat diet-fed SAMP8 mice

**2-Marta Ribalta** (UB) @ Griñán Lab

Effects of G9a inhibition and cannabinoid receptor activation in Alzheimer's disease through a pharmacological approach

**3-Anna Guitart** (IJC) @ Vaquero Lab

SIRT7 loss impairs epigenetic control of spermatogenesis and leads to premature male reproductive aging

**4-Nikolai Bykov** (CNAG) @ Martí-Renom Lab

TAD boundaries in *Drosophila* embryogenesis have distinctive transcriptional dynamics

**5-Eric Julià** (IJC) @ Cuartero Lab

Investigating AML Mutations and their Impact on 3D Chromatin Organization

**6-Raquel Plaza** (IBMB-CSIC) @ Martínez-Balbas Lab

PHF2-mediated H3K9me balance orchestrates heterochromatin stability and progenitor proliferation in early neurogenesis

**7-Marta Artés** (IBMB-CSIC) @ Martínez-Balbas Lab

Function of the histone demethylase PHF8 in neural progenitor cells

**8-Jordi López** (UAB) @ Roque Lab

Histone H1 profiling by quantitative proteomics.

**9-Alejandro Pérez** (UB) @ Agell Lab

Effects of replication stress on DNA replication dynamics and chromatin accessibility in colorectal cancer cells

**10-Palmira Llorens** (UB) @ Corominas Lab

Genome architecture during wing disc regeneration undergoes local changes between proximal chromatin interactions

**11-Carini Picardi** (IJC) @ Cuartero Lab

Understanding the role of GATA1 and cohesin mutations in myeloid leukemia of Down syndrome

**12-Oliver Meers** (IJC) @ Buschbeck Lab

The Unstructured Linker of macroH2A is a Previously Overlooked Functional Domain Involved in Nuclear Conformation, Chromatin Dynamics and Gene Expression

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**Secretaries of SCB:**

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