



Institut
d'Estudis
Catalans



Societat Catalana
de **BIOLOGIA**

XVI Jornada de Cromatina i Epigenètica

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



XVI Annual Chromatin and Epigenetics symposium

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

May 19, 2026

PROGRAM

9:00 Registration

9:20 Opening

Session I. Chair: Marc Martí-Renom (CNAG-CRG)

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

Alfred Cortés (ISGlobal, CRESIB)

The regulation of the regulator of the regulator of the regulator of sexual conversion in *Plasmodium falciparum*

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

Renee Beekman (CRG)

Putative Lymphoma Origins in Healthy Individuals uncovered through single-cell DNA Methylation Studies

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

Modesto Orozco (IRB)

Chromatin simulation

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

Alexandra Avgustinova (IRB, SJD)

Mapping heterogeneity and origins to uncover novel vulnerabilities in childhood cancer

10:50-11:25 Coffee break and poster session

Session II. Chair: Marie Victoire Neguembor (IBMB-CSIC) and Renee Beekman (CRG)

11:25-11:30 Sponsor talk **4min +1**

Marina Lorente (CeGaT)

Supporting Chromatin and Epigenetics Research with Genomics, Transcriptomics and Multi-Omics Solutions

11:30-11:50 **15min +5**

Lorenzo Pasquali (UPF)

Inflammation-driven chromatin remodeling and β -cell vulnerabilities in T1D

11:50-12:10 **15min +5**

Mariona Nadal (IRB)

Genetic Control of Transcriptional Heterogeneity Shapes Adaptive Responses to Stress

12:10-12:30 **15min +5**

David Corujo (IJC)

The histone variant macroH2A1 sustains stemness-associated transcription in acute myeloid leukemia

12:30-12:40 Short talk 1 **8min +2**

Miriam Acosta-Díez (UB, @Arias lab)

Cell-type-specific DNA methylation analysis suggests excitatory neurons as a potential driver of suicide-associated changes

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

Meritxell Novillo-Font (CNAG, @Martí-Renom lab)

A multi-omics approach to unravel the epigenetic and topological mechanisms underlying colorectal tumorigenesis

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

Manuel Fernandez Merino (IBMB-CSIC, @Neguembor lab)

Oligomodeling: a computational tool to simplify chromatin organization studies

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

Alexander Barclay (CNAG, @Martí-Renom lab)

An ensemble approach to predicting Hi-C maps from DNA sequence

13:10-13:20 *Sponsor talk, webinar* **8min +2**

Stefan Dillinger (Active Motif)

The Future of Protein-DNA Mapping

13:20-14:30 *Lunch break and poster session*

Session III. *Chair: Marian Martínez Balbas (IBMB-CSIC)*

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

Marie Victoire Neguembor (IBMB-CSIC)

Investigating Topoisomerase 1 dynamics and its interplay with transcription

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

Oriol de Barrios (IJC)

Targeting HDAC7 Repression as a Therapeutic Strategy in Infant Leukemia

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

Sara Pagans (UdG)

Deciphering the role of regulatory variants in inherited cardiac arrhythmias

15:30-15:40 Short talk 5 **8min +2**

Aleksandra Sparavier (CRG/CNAG, @di Croce & Martí-Renom labs)

Genome architecture rewiring and MLL-AF9-mediated transcriptional stabilization prime leukemogenesis

15:40-15:50 Short talk 6

8min +2

Gerard Martinez-Cebrian (IJC, @Cuartero lab)

Cooperative mechanisms of gene expression between GATA1s and STAG2 mutations in myeloid leukemia of Down syndrome

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

Session IV. *Chair: Sergi Cuartero (IJC)*

16:20-16:40

15min +5

Sonia Forcales (UB)

When repetitive DNA fails to stay silent: the NBL2 macrosatellite in cancer

16:40-17:00

15min +5

Alejandro Vaquero (IJC)

SIRT7: integrating stress responses, metabolism, and epigenetics in aging and cancer

17:00-17:20

15min +5

Sílvia Pérez (CRG)

Primate-Specific Alu Elements Slow Human Transdifferentiation by Titrating CEBPA

17:20-17:40

15min +5

José Luís Sardina (IJC)

Causal reprogramming of immune cell identity and function through DNA methylation editing and TET2-dependent regulation

18:00 *Closing*

POSTERS

1-Alba Ayats-Fraile (IBMB-CSIC) @ Roca Lab

A New Role of Topoisomerase II that "Knits" Chromatin

2-Claudia Martinez Miralles (UIC) @ Wright Lab

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

3-Evangelos Manousakis (UIC) @ Wright Lab

A non-canonical chromatin role for CDKN1A/p21 in regulating breast cancer stem cell fate

4-Houda Baccara (UIC) @ Ferrari Lab

PARP1 Upholds the 3D Structure and Function of Super-Enhancers and Hormone-Control Regions in Breast Cancer Cells

5- Silvia González-López (CRG) @ Guigó Lab

The role of epigenetic marks in genome evolution

6- Anna Oncins (ISGlobal) @ Cortés Lab

Single-cell transcriptomic profiling of Plasmodium falciparum sexual commitment

7- Zoe Fernández (UAB) @ Roque Lab

Differential regulation of histone H1 subtypes by N6-methyladenosine RNA methylation

8- Marta López (IJC) @ Stick Lab

Biomolecular condensation of E2A-PBX1 oncoprotein drives chromatin organization and leukemogenesis in B-ALL

9- Pau Homs (IBMB-CSIC) @ Jordan Lab

Histone H1 Depletion Triggers Cryptic Transcription and Non-Coding Transcriptional Changes in a Variant-Specific Manner

10- Andrés F. Bedoya-López (IDISBA) @ Llinàs Lab

Epigenetic Reprogramming Drives Lung Metastatic Progression in Triple-Negative Breast Cancer

11- Carlos S. Fillot (UB) @ Forcales Lab

Characterization of the NBL2/TNBL Axis in Neuroblastoma

12- Gabriel Ecker-Eckhofen (ICM-CSIC) @ Piferrer Lab

Exploring epigenetic patterns associated with the onset of sexual size dimorphism in european sea bass

13- Alba Maiques (UB) @ Maiques Lab

Lymph node signals drive myc- and atf3-dependent oncogenic programs in cll

14- Marta Valverde (IJC) @ Pontel Lab

Molecular insights on aldehyde-driven myeloid transformation

15- Carla Momjian (IJC) @ Buschbeck Lab
Identification of isoform-specific interactors of macroH2A2

Secretaries of SCB:

Mariàngels Gallego and Paqui Lorite
Societat Catalana de Biologia
C/ Maria Aurèlia Capmany, 14-16, 08001 Barcelona.
Tel. 933 248 584; E-mail: scb@iec.cat

Organized by:

Albert Jordan Vallès
Coordinator of the Chromatin and Epigenetics section of the SCB
Dept. Molecular Genomics, Institut de Biologia Molecular de Barcelona (IBMB-CSIC),
Parc Científic de Barcelona
A/e: albert.jordan@ibmb.csic.es

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