



SAPIENZA  
UNIVERSITÀ DI ROMA

## International Winter School

### *Genome integrity and genome organization in physiology and pathology*

December 18-22, 2023

Preliminary program

December 18<sup>th</sup> Lucchesi Room (CU005)

09.30-10.00 Opening and registration

#### **Nuclear Integrity and chromatin organization**

*Discussant: Romina Burla, IBPM-CNR Rome*

10.00-11.30 **Wenting Zhao**, *School of Chemistry, Chemical Engineering and Biotechnology, NTU Singapore (online)*

Engineered membrane deformation and guided reorganization of cellular machinery to study the mechanical properties of cells

11.30-13.00 **Fred Bernard**, *Jacques Monod Institute, Paris, France*

Nucleus migration within *Drosophila* oocyte



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14.00-15.30 **Barbara Peruzzi** *IRCCS Children Hospital Bambino Gesù, Rome, Italy*

Evaluation of nuclear dysmorphism, nuclear lamins and their interactors in pathologies through advanced confocal microscopy techniques

15.30-17.00 **Jeremy Carlton**, *King's College, London, UK*

The ESCRT machinery at nuclear envelope: Closing holes and expanding roles

December 19<sup>th</sup> Monesi Room (CU0015)

**Chromatin organization in development**

*Discussant: Chiara Mozzetta, IBPM-CNR Rome*

10.00-11.30 **Philippe Collas**, *Department of Molecular Medicine, University of Oslo, Norway*

3D matters: epigenetic and chromatin conformation changes at multiple scales during adipocyte differentiation

11.30-13.00 **Fulvio Chiacchiera**, *Department of Cellular, Computational and Integrative Biology, University of Trento*

Role of chromatin-associated complexes during liver regeneration and tumor formation

14.00-15.30 **Daniela Palacios** *Cattolica University of Rome*

Epitranscriptomics in muscle development and disease

15.30-17.00 **Matthieu Boulard**, *European Molecular Biology Laboratory EMBL, Rome*

Sweet gene regulation in the mammalian embryo

December 20<sup>th</sup> Monesi Room (CU0015)



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**Genome Stability in mouse model of diseases**

*Discussant: Eleonora Centofante, Department of Biology and Biotechnology, “Charles Darwin”, Sapienza University of Rome*

10.00-11.30 **Jamie Hackett**, *European Molecular Biology Laboratory EMBL, Rome*

What do chromatin modifications do? Epigenome editing to dissect function in health and disease?

11.30-13.00 **Monica Ballarino** *Department of Biology and Biotechnology, “Charles Darwin”, Sapienza, University of Rome*

Myogenesis and long non-coding RNAs: a chromatin affair

14.00-15.30 **Marina Vietri**, *Institute for Cancer Research, University of Oslo, Norway*

Nuclear envelope dynamics at ruptured micronuclei

15.30-17.00 **Rafal Czapiewski** *University of Edinburgh, UK (online)*

Nuclear envelope controls genetic spacetime - focus on genome organization and function.

December 21<sup>th</sup> Classical Art Museum (CU003)

10.00-13.00 **International Poster Session**

14.00-17.00 **Italian Poster Session**



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**17.30 Best Poster Awards**  
**get together drink and music (Serra Room, CU022)**

December, 22<sup>th</sup> Serra Room (CU022)

10.00-13.00: Exam

14.00-17.00: Course evaluation

*Scientific coordination: Isabella Saggio*

*Scientific committee: Isabella Saggio*

*Chiara Mozzetta*

*Romina Burla*

*Eleonora Centofante*