

# GENE THERAPY PROJECTS

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**Theme I: Aging**

Group A:

**Theme II: Cancer**

Group B:

70% of lectures (with signature)

4 seminars from WS

# International Winter School

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

December 18-22 2023  
Aula Monesi-online Zoom link

Preliminary program

December 18<sup>th</sup>

10-10.30 Opening and registration

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

*Discussant: Romina Burla, IBPM-CNR Rome*

10.30-11.45 **Wenting Zhao**, *NTU Singapore (online)*

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

11.45-13.00 **Fred Bernard**, *Jacques Monod Institute, Paris, France*

The importance of nucleus positioning in embryos development

14.00-15.30 **Jeremy Carlton**, *King's College (anche GBM students)*

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

15.30-17.00 **Barbara Peruzzi** (*IRCCS Children Hospital Bambino Gesù Italy*)  
Nuclear lamins and nuclear dysmorphism in pathologies through advanced microscopy lens

December 19<sup>th</sup>

**Chromatin organization in development**

*Discussant: Chiara Mozzetta, IBPM-CNR Rome*

10.00-11.30 **Philippe Collas** (*University of Oslo*)  
title tbd

11.30-13.00 **Fulvio Chiacchiera** (*University of Trento*)

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

15.30-17.00 **tbd**

December 20<sup>th</sup>

**Genome Stability in mouse model of diseases**

*Discussant: Eleonora Centofante, Sapienza University of Rome*

10.00-11.30 **Jamie Hackett**, *European Molecular Biology Laboratory (EMBL Monterotondo)*  
What do chromatin modifications do? Epigenome editing to dissect function in health and disease?

11.30-13.00 **Monica Ballarino** (*Sapienza, University of Rome*)  
Myogenesis and long non-coding RNAs: a chromatin affair

14.00-15.30 **Marina Vietri** (*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>

10.00-13.00 **International Poster Session**

14.00-17.00 **Italian Poster Session**

17.30 **Best poster awards**

December, 22<sup>th</sup>

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*

# PROJECT:

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- Title
- Background
- Aim of the project
- Materials and methods
- Results (expected)
- Conclusions
- References
- Pitfalls and solutions
- Budget

# same scheme in real calls for projects:

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examples:

<https://www.direzionescientifica.airc.it/wp-content/uploads/tips-Grants-2023.pdf>

<https://www.telethon.it/en/what-we-do/research/research-calls/joint-call-for-applications-fondazione-cariplo-e-fondazione-telethon-2023>

# EVALUATION CRITERIA

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- Feasibility
- Innovation
- Presentation quality
- Scientific impact

# HOW TO START PREPARING A PROJECT

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- Choose a topic (e.g. a disease, a group of disease...)
- State of art from literature (Pubmed, WOS...)
- Open questions or unsolved points
- Idea! Propose an hypothesis to solve
- Check again literature

...not necessarily in this order!



# HELPFUL HINTs

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Remember:

- Simple, effective data display
  - Small blocks of supporting text. Images and graphs say much more than words
  - Avoid resolution problems with your images (at least 150 dpi, but no more than 300 dpi)
  - Be aware of busy backgrounds
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Does your poster fit with these points?

- Can you read the type?
- Does it look too busy?
- Do my main points pop out?

# POSTER GUIDELINES

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- total 12 slides
- poster 90cm x 84cm
- poster examples and tips at:

<https://www.animateyour.science/post/how-to-design-an-award-winning-conference-poster>

Students research project simulation from past years:  
<https://www.saggiolab.com/who-else/teaching-group-labs/>

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## **Theme I: Aging**

Group A: Bernardi, Ilie, Colonnelli, Bastianelli

Group B: Hazrati, Bartolini, Glaudo, Montrone

## **Theme II: Cancer**

Group C: Balduzzi, Belvedere, Jeong, Majaliwa

Group D: Santacroce, Pace, Serra, Fanelli, Duarte

# PROJECT:

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30/10/23

1 slide/group

Title

General Idea