

PhD Program in Genetics, Molecular, and Cellular Biology

Advanced Course Mechanisms and Pathways controlling Nuclear and Genome Integrity

From March 31st to April 11th, 2025.

Aula A: Falaschi, IGM-CNR

Organizers: Bione Silvia, Buscemi Giacomo, Foiani Marco, Francia Sofia, Ghigna Claudia, Liberi Giordano, Montecucco Alessandra, Sabbioneda Simone, Zannini Laura

March 31st

9:30-11:00 **Fabrizio D'Adda di Fagagna:** (IGM-CNR and IFOM)

“Telomere Biology in Cancer and Aging”

11:15-13:00 **Magda Bienko** (Human Technopole Milano)

“Cell type-specific intronic RNAs shape genome architecture during neuronal lineage specification”

April 1st

10:00-12:00 **Andres Aguilera** (University of Seville, Spain)

“RNA-mediated replication stress and genome instability”

14:00-16:00 **Piero Carninci** (Human Technopole Milano)

“Multiple roles of long non-coding RNAs in genome regulation”

April 2nd

11:00-13:00 **Vincenzo Costanzo** (University of Milano and IFOM)

“Understanding causes and consequences of DNA replication stress in cancer and stem cells”

14:00-16:00 **Dana Branzei** (IGM-CNR and IFOM)

“DNA damage tolerance regulation”

April 4th

11:00-13:00 **Stefano Piccolo** (University of Padova and IFOM)

“Mechanobiology of cancer, regeneration and ageing”

April 7th

11:00-13:00 **Diego Dibitetto** (Istituto Mario Negri, Milano)

“An Example of Synthetic Lethality in Cancer: a focus on the BRCA-PARP connection”

14:00-16:00 **G.V. Shivashankar** (Dep. of Health Science and Technology, ETH Zurich)

“Mechano-genomic control and biomarker for cell-state transitions in health and disease”

April 10th

11:00-13:00 **Evi Southoglu** University of Sussex, UK

“The role of Genome Organisation in DNA repair Fidelity and Mutagenesis”

April 11th

11:00 -13:00 **Davide Gabellini** San Raffaele Hospital, Milano

“Understanding and treating inflammation in FSHD muscular dystrophy”