

22-24 UNIVERSITY OF SETTEMBRE MILANO-BICOCCA

VILLA CAGNOLA - Via Cagnola, 17/19 - 21045 GAZZADA SCHIANNO (VA)









PROGRAM

Monday 22

14.00-14.10 Opening Day 1

agropharmaceutical field

- 14.10-14.30 **s1.** Mirko Frigerio Verga ★
 Overcoming enzyme production instability in
 Escherichia coli for application in the
- 14.30-14.50 **s2. Marco Barreca**Longitudinal Clustering of TNBC patients using transcriptomics data: a trajectory distance-based approach
- 14.50-15.10 s3. Elisa Toini
 Phylogenetic approach reveals plants with high medicinal potential
- 10.10-10.30 **s4. Tommaso Sassi ★**Development of an Escherichia coli cell-factory for the industrial production of 5methylpyrazine-2-carboxylic acid

15.30-16.30 Poster Session 1

16.30-17.30 **ADI**Meeting with the PhD students

Tuesday 23

8.50-9.00 Opening Day 2

9.00-9.20 **s5. Angela Maria Giada Giovenale**

Neurogenesis in Smith-Magenis Syndrome: When Brain Development Go Awry

9.20-9.50 s6. Giulia Ghisleni

A Participatory and Evolutionary Approach to Urban Microbiome Research: Reuniting Microbiology and Society

- 9.50-10.10 **s7. Martina Dramis ***Optimizing culture conditions for biomanufacturing bacterial cellulose and tailoring its functionalization
- 10.10-10.30 **s8. Lorenzo Taglietti**L-Iduronic Acid-Type 1-N-Iminosugars as
 Pharmacological Chaperones for the Rescue of
 a-L-Iduronidase in Mucopolysaccharidosis
 Type I

10.30-11.30 Coffee Break +

Poster Session 2

- 11.30-11.50 **sg. Miriam Kuku Afanga *** (###)
 Identification of miRNA-based biomarkers
 predictive of lung cancer treatment response,
 and mechanisms involved in lung cancer
 progression.
- 11.50-12.10 **s10. Francesca Misitano ★** ⊕ Modulation of Ca2+ handling by combined administration of Istaroxime and Levosimendan in mouse ventricular cardiomyocytes
- 12.10-12.30 **s11**. **Stefano Bianchini**Anticancer properties of plant extracts on colorectal cancer cell lines
- 12.30-12.50 **s12. Alessia Metallo**Istaroxime Prevents AngiotensinII-Induced
 Remodeling in Pulmonary Artery Smooth Muscle

12.50-14.10 Lunch Break

14.10-15.00 is1. Francesco Moccia UNIMOL

A journey through intracellular Ca2+ signaling: understanding physiology to interfere with pathology

- 15.00-15.20 **s13**. **Alice Armanni** ⊕

 The built environment and microbiome in human health insights from everyday life and the hospital environment
- 15.20-15.40 **s14**. **Alice Italia ***Functional impact of Toll-like Receptor 4
 (TLR4) modulation in lung fibrosis-associated fibroblasts
- 15.40-16.00 s15. Gergo Borka
 Evaluating Chemotherapeutic Drug Induced
 Gastro-intestinal Toxicity (DGIT) using a multicompartimental Gut-on- Chip Model

16.00-16.30 Coffee Break

- 16.30-16.50 **s16.** Chiara Florindi "Amphiphilic membrane-targeted phototransducers for non-genetic optical stimulation of carciac bioelectricity"
- 16.50-17.10 **s17**. **Edvige Vulcano**Interrogating Amyotrophic Lateral Sclerosis
 Signatures in TDP-43 G376D human induced
 Neural Stem Cells
- 17.10-17.30 **s18. Rosa Ranalli**Cities for pollinators: supporting biodiversity through urban habitats
- 17.30-17.50 s19. Laura Beretta ★
 Early Insights, Lasting Impact: Mechanistic
 Enzymology for Characterizing Hit Compound
 Mechanisms of Action

Wednesday 24

8.50-9.00 Opening Day 3

- 9.00-9.20 **s20. Serena Seminara** Investigating the involvement of the Wiskott-Aldrich Syndrome Protein (WASp) in the function of brain-resident immune cells
- 9.20-9.50 s21. Maria Chiara Barbera Hijacking the clock: Epigenetic age rewiring via miR-29 modulation
- 9.50-10.10 **s22.** Alessia Lambiase *Neuroprotective effects of plant bioactive* compounds on eukaryotic models of Parkinson's disease
- 10.10-10.30 s23. Susanna Perotti Exploring the Microbial Biodiversity of Kombucha for Novel Probiotic and Postbiotic Candidates

10.30-11.30 Coffee Break +

Poster Session 3

- 11.30-11.50 **s24**. Giorgia Ruotolo Modelina Primary Cilium Defects in Joubert Syndrome using iPSC-Derived Neural Stem Cells
- 11.50-12.10 s25. Barbara Zerbato PGM3 Inhibition as a Novel Strategy to Induce BRCAness in HR-Proficient Pancreatic Cancer Cells
- 12.10-12.30 s26. Francesco Abbiati Bioactive compounds and healthy aging: search for new nutraceutical compounds through the experimental model of chronological lifespan in yeast
- 12,30-12,50 **s27**. Beatrice Colombo Wild bees adaptation to urbanization: a multi-

Omic approach to implement innovative conservation and ecological transition strategies

12.50-14.10 Lunch Break

14.10-15.00 is2. Luca De Gioia

"Life Is good" and other misconceptions. Breve itinerario tra i luoghi comuni e sorprendenti scoperti

- 15.00-15.20 s28. Maria Rita Chelazzi *Investigating the role of the SOWAHC-DIAPH1* complex in physiology and cancer
- 15.20-15.40 **s29**. Luca Moretti Natural products targeting Amyloid- β aggregation: spectroscopic and biophysical approaches for Alzheimer's disease prevention
- 15.40-16.00 s30. Maddalena Bracchi Design and 3D fabrication of functional meniscal scaffolds

16.00-16.30 Coffee Break

- 16.30-16.50 **s31**. Francesco Lapi Multi-omics data analysis to characterize sexspecific metabolic shifts during embryo development
- 16.50-17.10 **s32. Lidia Favaretto** The evaluation of Nature-based Solutions through a life-cycle thinking approach: key challenges and opportunities
- 17.10-17.30 s33. Flavio Corallo * Stn1 supports Mec1 function in protecting stalled replication forks from degradation

POSTER SESSIONS

Mon 22, 15.30-16.30 **Poster Session 1**

p1. Andrea Banfi

Harnessing Mirror-Image Peptides: Nanoparticle Vectors for Nucleic Acid Delivery in Cancer Treatment

p2. Beatrice Pizzelli

The role of Collinsella aerofaciens in Non-Communicable Diseases: potential implication in pathogenesis through gut-liver axis activation

p3. Fabio Angelini

Lactic Acid Bacteria, Aromatic Amino Acids and Human Health: Two Functional Approaches

p4. Francesca Vincenti

Resolving HSC heterogeneity with integrated single-cell Multi-Omics

Tue 23, 10.30-11.30 Poster Session 2

p5. Francesco Bellusci *

Synthetic biology applied to the biomanufacturing of plant natural products of pharmaceutical interest

p6. Hind Moukham *

Glabranin as a natural modulator of AMPK signaling and lipid metabolism in NAFLD

p7. Linda Molteni

Better Together: NMR Spectroscopy and Other Biophysical Tools for the Comprehensive Characterization of Prenylflavonoids Anti-Amyloidogenic Properties

p8. Margherita Finazzi

Design and characterization of an in vitro reconstructed human gut microbiota to model microbe-microbe and host-microbe reciprocal interactions

Wed 24, 10.30-11.30 Poster Session 3

p10. Radhika Dhekane

Multi-factor fluid-dynamic model of the tumor microenvironment

p11. Stefano Cervellera

Multidimensional Integrated Quantitative Approach To Assess Safety And Sustainability Of Nanomaterials In Real Case Life Cycle Scenarios Using Nanospecific Impact Categories

p12. Stefano Cozzi

Expanding progenitor-like cells via CN-NFAT inhibition to uncover additional differentiation mechanisms



Health and Biodiversity



Biomedical and Health

- * To attend these sessions, participants are required to sign a confidentiality agreement to ensure that all research presented remains protected and is not shared without authorization
- Online presentation

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