6th MARIA CIARAMELLA
MEMORIAL WORKSHOP • SCIENTIFIC PROGRAMME

DAY 1 THURSDAY • 12 NOVEMBER 2026
Poster Session 1 (Posters 1 – 36)

1. Giusy Castagliuolo *(UNINA)*
Development of a polymeric scaffold functionalized with antimicrobial peptides active against oral pathogens

2. Casale Carmela *(IGB)*
Early immune-chemokine network dysregulation in the late first trimester of pregnancies complicated by preeclampsia

3. Antonio De Francesco *(TIGEM)*
Computational reconstruction of complex genome editing outcomes using Nanopore long-read sequencing

4. Noemi Nappo *(SZN)*
Exploring the biotechnological potential of marine discards: from fish waste to bioactive compounds

5. Stefany Castaldi *(UNINA)*
Rhizosphere Bacilli mitigate copper stress and sustain plant–pollinator networks

6. Gennarelli Emanuela Francesca *(IGB)*
Mapping NEMO deficient cells in chimeric mice

7. Hossein Khadem *(IEOMI)*
Polarization-Sensitive Holotomography for Quantitative Biophysical Characterization of Lipid Droplets in Prostate Cancer Cells

8. Davide Esposito *(IBB)*
Exploring the molecular properties of a tomato PR-10 allergen

9. Antonia Amodio *(IBBC)*
Detection of memory gluten-specific T cells in gut mucosa of children with potential celiac disease with negative serology: implication for clinical management of potential celiac disease

10. Raffaella Ausiello *(UNINA)*
Engineered All-D Antimicrobial Peptide (D)KRK23 Overcomes Proteolytic Degradation to Target Drug-Resistant Skin Pathogens

11. Marco Livero *(TIGEM)*
AI-Guided Engineering of Hyperactive Lysosomal Enzymes: benchmarking strategy for the active-learning framework

12. Giovanna Ponticelli *(IGB)*
Generation and characterization of lung organoids from human pluripotent stem cells to study lung development and disease

13. Maria Laura Amenta *(IBBR-Na)*
Metabolomics-guided root extract-inspired enrichment media improve recovery of underrepresented bacteria from the durum wheat rhizosphere

14. Mary Carolin Kurisingal Cleetus *(SZN)*
Small microplastics in Mytilus galloprovincialis: Methodological advances and effects on the reproductive system

15. Daniele Bravoco Levi Fritz Limongi *(UNINA)*
Integrated Epithelial Models of IBD for Evaluating Novel Anti-Inflammatory Strategies

16. Francesca D'Amato *(IGB)*
GRK5 variants in Parkinson's disease: from genetic identification and functional characterization to disease-relevant cellular models

17. Emanuele Manco *(TIGEM)*
Centrosome-Ciliary Genes As A Therapeutic Target In Bile Duct Cancer

18. Marianna Pacelli *(UNINA)*
Functional analysis of the triterpenoid biosynthetic pathway during Bacillus subtilis sporulation

19. Genserico Roberta *(IGB)*
Investigating the region-specific molecular effects of Ozanimod in the Mecp2−/y mouse model of Rett syndrome

20. Rossella Decini *(IEOMI)*
Investigating the role of PARP16 in regulating cell proliferation and survival in Osteosarcoma cells

21. Daniela Ascione e Vittoria Roncalli *(SZN)*
Unravelling the Mechanisms of Embryonic Diapause in Copepod Eggs: A Case Study of Anomalocera patersonii

22. Alessandro Ruocco *(UNINA)*
A multi-omics approach to elucidate the role of synaptojanin 1 (SYNJ1) in health and disease

23. Lucia Vittoria Sepe *(TIGEM)*
ODF2 Dysregulation Defines A Centrosome–Ciliary Program Associated With Chromosomal Instability In Pancreatic Ductal Adenocarcinoma

24. Giurin Giuseppe *(IGB)*
From Gene Regulatory Networks to Novel Variants identification: A Multi-Omics Analysis of Parkinson's Disease Pathogenesis

25. Eliana Notaro *(IBB)*
Crystal structure of a γ-Carbonic Anhydrase from Klebsiella pneumoniae as starting point for the rational design of new antibacterial agents

26. Arianna Pastore *(IBBC)*
Immune adaptations to acute and prolonged hypobaric hypoxia in Antarctic and simulated environments

27. Sara Colella *(UNINA)*
From agro-industrial waste to green nanomaterials: microwave-assisted synthesis of carbon quantum dots from wheat germ

28. Marciano Mariarca *(IGB)*
Circulating mitochondrial DNA reveals systemic mitochondrial dysfunction in Parkinson’s disease

29. Vittoria Curcio *(SZN)*
G protein-coupled receptors signaling in Diatoms: Exploring Their Role in Growth Regulation

30. Luca Livio Levorato *(UNINA)*
A Magnetophoretic and Plasmonic Biosensing Platform for Ochratoxin A Detection

31. Monica Ambrosio *(IBBR-Na)*
Two new peptides derived from the Mitochondrial Targeting Sequence’s

32. Matteo Perrone *(UNINA)*
Self-DNA-mediated toxicity: a novel strategy for species-specific control of insect pests

33. Spinosa Ezia *(IGB)*
A case of Incontinentia Pigmenti associated with concurrent IKBKG/NEMO and MED13L mutations

34. Maria Luigia Ibba *(IEOMI)*
Targeted Epigenetic Reprogramming in NSCLC: A Novel Bispecific Aptamer to Selectively Inhibit DNMT1

35. Micaela Grella *(IBBR-Na)*
How does abiotic stress at the seed germination stage influence beneficial plant-microbe interactions in rice?

36. Marinella Manna *(IBBR-Portici)*
Identification of genetic regulators of secondary seed dormancy in Arabidopsis thaliana

DAY 2 FRYDAY • 13 NOVEMBER 2026
Poster Session 2 (Posters 37 – 71)

37. Enza Sibilia *(UNISA)*
From Plant Biotechnology to Extracellular Vesicles: Exploring a Green Tool For Nanomedicine

38. Angela Grazioso *(ICB)*
The CE-ICB Extremophiles Collection: biodiversity preservation and emerging biotechnological applications

39. Laura Bucciero *(ISASI)*
3D bioprinting of Hydra vulgaris: from single cells to self-organized tissues

40. Francesca De Santis *(Vanvitelli)*
Molecular characterization of the PAH p.Q301P variant reveals altered oligomerization, intracellular aggregation, and BH4-mediated stabilization

41. Mariagrazia Volpe *(TIGEM)*
AAV-mediated inhibition of miR-181a/b as gene-independent therapeutic tool for mitochondrial diseases

42. Erika Piccolo *(UNINA)*
Human MMP-19-Derived Encrypted Antimicrobial Peptides as Novel Therapeutics and Antimicrobial Coatings for Medical Implants

43. Gwendoline Kopp *(SZN)*
Histone Deacetylase Inhibition Provides Insights into Chromatin-Level Transcriptional Regulation in Diatoms

44. Alessia Gaeta *(IGB)*
Selective Biological Effects of a Coffee-Derived Postbiotic in Bladder Cancer and Intestinal Epithelial Models

45. Vincenzo Vedi *(UNINA)*
The photosynthetic green microalgae Chlamydomonas reinhardtii faces plastic pollution: analysis of the effects induced by microplastics on algal physiology and evaluation of its bioremediation ability

46. Ilaria Vitale *(IBB)*
Identification of a Novel Selective Galectin-1 Ligand with Potential Therapeutic Applications

47. Ilenia Matino *(IBBC)*
Epigenetic regulation of the polymeric immunoglobulin receptor gene in Antarctic teleosts under simulated marine heatwaves

48. D'Antonio Concetta *(IGB)*
Targeting Glioblastoma Cell Migration and Invasiveness via Extracellular Vesicles

49. Rosa Saurino *(TIGEM)*
MicroRNA-181a/b modulation as possible therapeutic strategy for Autosomal Dominant Optic Atrophy

50. Annamaria Vitiello *(UNINA)*
Isolation of heavy metal tolerant Aeromonas strains from the Sarno river Annamaria Vitiello1, Martina Aulitto1, Danila Limauro1

51. Isabella Provera *(SZN)*
Studying assisted evolution strategies to increase Posidonia oceanica seedlings resilience to future climate scenarios

52. Eduardo Ibello *(IGB)*
Exploring The Effects Of Budesonide On Collective Cell Behavior In PDAC

53. Roberto Iacomino *(IEOMI)*
Unravelling the interplay between Triple-Negative Breast cancer cells and macrophages

54. Giorgio De Tommasis *(UNINA)*
SPORE-DEFENSE: A Spore-Based Platform for Innovative Control of Mosquito Borne Infectious Diseases

55. Sara Bisogno *(TIGEM)*
Cross-Disease Multi-Omics Reveals the Centrosome–Primary Cilium Axis as a Molecular Link Between Cholangiopathies and Cholangiocarcinoma

56. Roberta Cirillo *(IGB)*
Dissecting the molecular cascades linking ZBTB24 deficiency to the ICF2-associated NK-cell dysfunction.

57. C. E. De Curtis *(UNINA)*
Following gene silencing by the naked eye: a StAN1-based anthocyanin reporter for TRV-VIGS

58. Amin Ranjbaran *(SZN)*
Unravelling the role of mitochondrial dynamics in the nervous system of Mytilus galloprovincialis during environmental stress

59. Maria Iavazzo *(IGB)*
Organelle trafficking across the tumour-stroma interface fuels hybrid cell states in pancreatic cancer

60. Emanuela Galatola *(IBBR-Na)*
Twinkle-derived antimicrobial peptides from the Antarctic fish Nothothenia coriiceps: a new frontier in food preservation and human health

61. Simone Pisano *(TIGEM)*
Hepatocyte-directed AAV-mediated homology-independent targeted integration for the treatment of Progressive Familial Intrahepatic Cholestasis Type 3

62. Noemi Russo *(UNINA)*
Dissecting the role(s) of glucose-6-phosphate dehydrogenase in Physcomitrium patens: insights from a moss harbouring multiple chloroplast isoforms

63. Maria Diletta Cinque *(IBB)*
Phox2B: the central role of the aggregation of the homeodomain in CCHS pathogenesis

64. Francesca Zaza *(IBBC)*
Preliminary investigation of the antitumor effects of apigenin in canine mammary carcinoma cells

65. Pianese Alessia *(IGB)*
Pharmacological induction of an adipocyte-like transcriptional state coupled with attenuated malignancy in BRAF-mutant anaplastic thyroid carcinoma cells

66. Maria Pia Sacchi *(IEOMI)*
Role of Glycerophosphoinositol homeostasis in the pathogenesis of Batten disease

67. Sara Scotto d'Apollonia *(UNINA)*
Circular Agriculture: Bioactive Molecules from Chlorella sorokiniana Cultivated on Dairy Wastewater for Crop Protection and Growth

68. Lorenzo Vassura *(SZN)*
DREAMM: developmental response to environmental alterations in the Mediterranean mussel Mytilus galloprovincialis

69. Giorgia Gitano *(TIGEM)*
OFD1 Dysregulation Links Primary Cilium Loss To Cell-Cycle Progression And Tumor Growth In Cholangiocarcinoma

70. Rita Bassolino *(IGB)*
A serotoninergic receptor ligand with 5-HT1A antagonistic activity modulates prostate cancer cell phenotypes

71. Marianna Tomeo *(UNINA)*
NONO/p54 Drives CDK2-Dependent Cell-Cycle Bypass in CDK4/6 Inhibitor-Resistant HR+/HER2− Breast Cancer

72. Luisa Santoro *(IGB)*
Downmodulation of Astrocyte-pro invasive activity of glioblastoma cells by uPAcyclin II Decapeptide