6th MARIA CIARAMELLA
MEMORIAL WORKSHOP • SCIENTIFIC PROGRAMME

DAY 1 THURSDAY • 12 NOVEMBER 2026 — MORNING SESSIONS

09:00–09:30 Opening remarks

SESSION 1 09:30–11:00

Chairs: Annarita De Felice (IBBR), Carlo Pasqua (IBBC), Giuseppina Tommasini (ISASI)

15-MINUTE TALKS 5 presentations

09:30 **Robina Khan** Vanvitelli
Purification, characterization, and antifungal activity of two novel chitinases from saffron corms (Crocus sativus L.)

09:45 **Assunta Aquino** IGB
Sphingolipids metabolism as a novel target for a drug repositioning-based strategy in murine models of Rett syndrome

10:00 **Simona Brillante** TIGEM
Mitochondrial dysfunction in photoreceptors reveals new pathways for Stargardt Disease therapeutic intervention

10:15 **Laura Vitale** SZN
Investigating the potential of extremophile marine bacteria in the circular recovery of critical raw materials from waste streams

10:30 **Esther Pirozzi** UNINA
From Fumaroles to Function: Uncovering a Synergistic Enzyme System via Metagenomics

3-MINUTE FLASH TALKS 4 presentations

10:45 **Prasenjit Bhowmik** IBB
Structural Characterization of Novel Carbonic Anhydrase Inhibitors with Multi-Target Potential for Neurodegenerative Diseases

10:48 **Emanuela Palomba** IBBR-Portici
An Integrated Multi-Omics View of Self-DNA Responses in Arabidopsis thaliana

10:51 **Maria Luigia Maresca** IEOMI
GLYCOMAP: Decoding how the Golgi organizes glycosylation

10:54 **Salvatore Capuozzo** UNINA
Evolutionary and functional divergence of the atypical GH97 family

11:00 **Coffee break**

SESSION 2 11:30–13:00

Chairs: Giovanni Di Fusco (UNINA), Raffaela Bonavita (IBBC), Emanuela Dattolo (SZN)

15-MINUTE TALKS 5 presentations

11:30 **Filomena Amoroso** IGB
Unravelling the Role of the Mitochondrial Deacetylase Sirt3 in Gastruloid Development

11:45 **Antonia Voli** UNISA
From chronic inflammation to gastric epithelial reprogramming

12:00 **Federica Salatiello** SZN
Retinoic acid controls development and detoxification responses in the mussel Mytilus galloprovincialis despite loss of canonical RAR activity

12:15 **Rosa D'Alessandro** IBBR-Portici
The Enigmatic Role of Tropane Alkaloids under Salinity Stress: A Tissue-Specific Multi-Omics Study in Atropa belladonna

12:30 **Aldo Di Vito** IEOMI
Metastasis-mimicking plasticity in F4-GIST-T1: a pioneering cellular model for deciphering mechanisms underlying metastasis in gastrointestinal stromal tumors

3-MINUTE FLASH TALKS 4 presentations

12:45 **Riccardo Arnese** TIGEM
ESMRank reveals a transferable axis of protein mutational constraint from overlapping variant effect assays

12:48 **Angela Gambardella** IGB
Unraveling the role of the chemokine receptor CXCR2 in muscle stem cell functional heterogeneity

12:51 **Francesca Cervellini** TIGEM
OCRL Regulates a Novel PI(4,5)P_2 Pool on Lipid Droplets Essential for Fatty Acid Metabolism and Mitochondrial Function

12:54 **Emanuela Maresca** SZN
A second life for fish skin: from marine by-product to regenerative biomaterial for healthcare

13:00–15:00 Lunch and poster session · Visit posters 1–36

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AFTERNOON SESSIONS

13:00–15:00 **Lunch and poster session · Visit posters 1–36**

SESSION 3 15:00–16:15

Chairs: Martina Filocaso (IBB), Annamaria Di Giacomo (ISA), Federica Saracino (IGB)

15-MINUTE TALKS 4 presentations

15:00 **Irene Antonietta Coppola** UNINA
From transcriptomics to regulatory networks: reconstruction of gene regulatory networks in tomato under abiotic stress

15:15 **Roberta Turiello** TIGEM
Integrated transcriptomic analysis identifies Paternally Expressed Gene 10 as a novel candidate biomarker associated with aggressive features in liposarcoma

15:30 **Natalia Dell'Aversano** ISASI
Plasmonic photothermal stimulation reshapes calcium dynamics during Hydra regeneration

15:45 **Somayeh Farazpour** IEOMI
A Multifunctional Nanovector for Targeted Modulation and Label-Free Tracking of Cancer-Associated Fibroblasts

3-MINUTE FLASH TALKS 4 presentations

16:00 **Martina Breglia** IBBR-Na
The effect of naïve and loaded extracellular vesicles (EVs) from different sources on C. elegans locomotion and neurodegeneration

16:03 **Julfequar Hussain** IBBC
Proteomic profiling of host defense and immune response networks in sars-cov-2 infection and their association with PON2

16:06 **Marianna Roca** UNISA
Microenvironmental Regulation of Cellular Interactions with Nanomaterials: A Focus on the ECM

16:09 **Rocco Acciaio** UNINA
Tailoring the Biochemical Composition of Coelastrella terrestris through Nutrient Depletion for Biomass Valorization

16:15 **Coffee break and poster session · Posters 1–36**

SESSION 4 17:15–18:00

Chairs: Anna De Martino (IBBR), Carmine Buonocore (SZN)

15-MINUTE TALKS 2 presentations

17:15 **Rosangela Russo** IBB
Innovative purification strategies of Factor V from complex plasma-derived matrices

17:30 **Daniela Haverbeck** SZN
Clonal Architecture and Somatic Mutation Accumulation in the Long-Lived Seagrass Posidonia oceanica

3-MINUTE FLASH TALKS 4 presentations

17:45 **Stefano Varriale** IBBR-Na
Strategies for Sustainable Plant Growth Promotion: From Microbial Consortia to Engineering IAA-Producing Rhizobia

17:48 **Maria Recine** ISA
Oxidation Modulates the Biological Activity of Quercetin and Fisetin

17:51 **Himmat Singh Bakshi** SZN
Tracing the evolutionary origin and function of autofluorescent pigmented cells in sea cucumbers

17:54 **Teresa Barra** UNINA
3D Bioprinted Endothelial Cell-Laden Hydrogel Tube under Fluid-dynamic conditions

18:00 End of Day 1

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DAY 2 FRIDAY • 13 NOVEMBER 2026

MORNING SESSIONS

SESSION 5 09:00–10:30

Chairs: Olimpia Iacolare (IGB), Angela Tino (ISASI), Marika Gargano (UNINA)

15-MINUTE TALKS 5 presentations

09:00 **Alfonso Ferrara** UNINA
Catalysing the Carbon Loop: A New Route to Microalgal Bio-CCU

09:15 **Arif Mahmood** TIGEM
De novo missense variants in MACROH2A1 underlie a Mendelian histonopathy

09:30 **Andrea Cattaneo** ICB
Antarctic extracellular polymeric substances with cryoprotective and antioxidant properties: sustainable production by Pseudomonas sp. ANBA3_5 using beetroot molasses

09:45 **Marianna Ciotola** IGB
Direct Tumour–Stroma Interactions in Pancreatic Ductal Adenocarcinoma: Cell Fusion, Cell-in-Cell Structures and Hybrid Cell Formation

10:00 **Michela Famiglietti** ISA
Valorisation of chestnut bark by-products: spray-drying microencapsulation of a tannin-rich extract for functional ingredient development

3-MINUTE FLASH TALKS 4 presentations

10:15 **Valentina Tretola** IEOMI
Role of GRASP55 in the compartmentalization of enzymes within the Golgi Apparatus

10:18 **Antonella Musto** ISA
Crocin as a Promising Adjunctive Strategy for Rheumatoid Arthritis and Its Associated Blood–Brain Barrier Dysfunction

10:21 **Maria della Valle** Vanvitelli
Molecular insights into nanoplastics impact on the structure and function of ubiquitin

10:24 **Maria Giuseppina Campanile** Vanvitelli
Purification, enzymatic and structural characterization of canihuin, a novel type-1 ribosome-inactivating protein from the seeds of Chenopodium pallidicaule Aellen

10:30 **Coffee break**

SESSION 6 11:00–12:30

Chairs: Giuseppe Ciccone (IEOMI), Stefania Belli (IGB), Elisa Cappetta (UNISA)

15-MINUTE TALKS 5 presentations

11:00 **Flavia Cirelli** IBBR-Na
Non-catalytic inhibition of O6-methylguanine DNA methyltransferase by retinoids: an in vitro study to overcome enzymatic chemoresistance

11:15 **Roberta Esposito** IBBC
Inflammatory gluten-reactive T cells in the gut mucosa of patients with potential celiac disease in absence of villous atrophy

11:30 **Sonia Panico** IGB
Engineering the PlGF-DE knock-in via LNP-Based CRISPR/Cas9 gene editing as a therapeutic strategy for AMD

11:45 **Tanya Alessandro** SZN
Keeping time without Period: transcriptional rhythms and circadian clock evolution in echinoderms

12:00 **Alessandra Esposito** TIGEM
A TBK1/ULK1 signaling axis couples lysosomal stress to TFEB activation

3-MINUTE FLASH TALKS 4 presentations

12:15 **Alessio Bolognini** IBBR-Na
Dietary natural Self-DNA libraries (NAT) as a Strategy for Self-Inhibition in Caenorhabditis elegans

12:18 **Nunziana Pezzella** TIGEM
CHARACTERIZATION OF OFD1 VARIANTS IN PRIMARY AND MOTILE CILIOPATHIES

12:21 **Francesca De Falco** IBBR-Portici
Psychomolecules from Plants: Unlocking the Mysterious Serotonin-Derived Alkaloid Pathway in Arundo donax

12:24 **Maissam Ben Ammar** UNINA
Transcriptomic Analysis of Potassium-Mediated Salinity Adaptation in a Salt-Sensitive Barley Genotype

12:30 **Vittoria Brambilla** UNIMI
Keynote lecture: From rice blast resistance to a startup company

13:00–15:00 **Lunch and poster session · Visit posters 37–72**

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AFTERNOON SESSIONS

13:00–15:00 Lunch and poster session · Visit posters 37–72

SESSION 7 15:00–16:00

Chairs: Federica Carrillo (IGB), Valentina Marchesano (ISASI), Martina Mugnano (IGB)

15-MINUTE TALKS 3 presentations

15:00 **Sabrina Gargiulo** IEOMI
Shp1 Modulates Apoptosis and Senescence Pathways in Retinal Cells: Implications for Age-Related Macular Degeneration

15:15 **Martina Addeo** UNINA
Molecular and epigenetic alterations in preeclampsia: complementary models to investigate preventive effects of natural compounds

15:30 **Marialuisa Testa** TIGEM
Studying AAV gene therapy approaches for monogenic rare diseases using in vitro human-derived platforms

3-MINUTE FLASH TALKS 4 presentations

15:45 **Michele Cillo** TIGEM
Selective Endoplasmic Reticulum ImmunoPrecipitation (ER-IP) coupled with Mass Spectrometry techniques allow in-depth study of ER proteome plasticity

15:48 **Anna Chirico** UNINA
Behavioural alterations and neurodegeneration in zebrafish after exposure to polyethylene terephthalate (PET-MPs)

15:51 **Simone Mas** IGB
Mechanobiology-guided drug repurposing identifies budesonide as an inhibitor of stiffness-induced PDAC aggressiveness

15:54 **Furqan Memon** Vanvitelli
AdipoRon and TG` F-β1 Modulate EMT and Morphological Features in A549 Lung Cancer Spheroids: Insights into Tumor Progression

16:00 **Coffee break and poster session · Posters 37–72**

SESSION 8 17:00–17:45

Chairs: Alessandro Esposito (IEOMI), Martina Blasio (ISASI)

15-MINUTE TALKS 2 presentations

17:00 **Concetta Di Napoli** UNINA
Redox regulation of plastidial glucose-6-phosphate dehydrogenase from Populus trichocarpa by thioredoxin m-type and possible post-translational modifications

17:15 **Eva Adabbo** ISA
In vitro and in vivo antioxidant and anti-inflammatory activity of Aliophen-XP, a bioactive fraction derived from malt and hops

17:30 **Micaela De Girolamo** Vanvitelli
The glucocorticoid receptor as a context-dependent regulator of metabolic reprogramming and fate plasticity in ovarian cancer

3-MINUTE FLASH TALKS 3 presentations

17:45 **William Edema** SZN
MicroRNA control of mitochondrial stress responses: a conserved mechanism linking cellular physiology to ecological diversification

17:48 **Alessia Di Fraia** UNINA
Biofabricated gold nanozymes from a thermophilic secretome couple multienzyme-like catalysis to glucose-responsive metabolic stress

17:51 **Claudia Vilardo** IGB
Cancer cell-derived collagen supports pancreatic ductal adenocarcinoma progression and chemoresistance

18:00 **Closing remarks and award winners announcement**