



ISTITUTO DI GENETICA E BIOFISICA ADRIANO BUZZATI-TRAVERSO (IGB) RETREAT 2026

23 – 24 JUNE 2026

Villa Doria d'Angri
Università degli Studi di Napoli "Parthenope"
Via Petrarca 80, Napoli

TUESDAY, JUNE 23RD — 2026

09:00–09:30 **Welcome & Opening Remarks** *Saluti istituzionali*

09:30–09:50 **★ INVITED SPEAKER**
Prof.ssa Vincenza Colonna (University of Tennessee, College of Medicine – Memphis)
Integrating Genetic Ancestry, Environmental Exposure and Health Equity

9:50–11:00 **SESSION 1.1 Genetics, Genomics and Epigenetics of Disease**
Chair: Maria Matarazzo · Luca Di Giovannantonio

Marina Ciullo *Phenotypic Variability of CADASIL-Associated NOTCH3 p.Arg1231Cys and the Role of Low LDL Cholesterol as Disease Modifier: Evidence from a Cilento Founder Population and Two European Cohorts*

Francesca Fusco *From Gene to Phenotype in Incontinentia Pigmenti: IKBKG/NEMO Mutations, Biobank-Based Correlations and Immune Dysregulation*

Salvatore Fioriniello *From Sphingolipid Imbalance to Therapy: A Drug Repurposing Approach in Rett Syndrome Models*

Marianna Aprile *PPAR γ and Beyond: From Alternative Splicing and Mutations to Cellular Models of Adipocyte Dysfunctions*

11:00–11:30 **Coffee Break**



11:30–13:00 **SESSION 1.2 Genetics, Genomics and Epigenetics of Disease**
Chair: Floriana Della Ragione · Gemma Flore

Teresa Esposito *Identification of Novel Genetic Factors and Biomarkers for Parkinson's Disease: Integrating Genetics, Multi-Omics Data, and In Vitro Models*

Maria Strazzullo *Epigenetic Control of Cellular Identity in Inborn Error of Immunity (IEI) Caused by Mutations in Chromatin Modifiers*

Giuseppina Lacerra *Molecular Epidemiology of α -Thalassemia and Hemoglobinopathies in Southern Italy; Regulatory Studies of the Paraoxonase 2 (PON2)*

Giovanna Del Pozzo *New Diagnostic Assay for Celiac Disease*

Laura Pisapia *CD84/SLAMF5: An Emerging Biomarker in Celiac Disease*

13:00–15:00



Lunch



& Poster Session I

15:00–15:30

SESSION 2 Infrastructures & Core Facilities

Chair: Claudia Rallo

Francesca Fusco (CRB) *The Center for Biological Resources (CRB-IGB)*

Vincenzo Mercadante/Laura Pisapia (IGB Flow Cytometry Facility) *The Flow Cytometry Core Facility: An Integrated Platform Supporting Multidisciplinary Research*

Rosarita Tatè / Salvatore Arbucci (IGB Microscopy Facility) *The IGB Integrated Microscopy*

15:30–17:20

SESSION 3 Neurobiology and Tissue Differentiation

Chair: Gabriella Minchiotti · Daniela Alfano

Sandro De Falco *Angiogenesis and Inflammation: Two Sides of the Same Coin Paving Pathological Neovascularization*

Valeria Tarallo *Uncovering the Role of ALU RNA in Exosomes and CRIPTO in Inflammation: From Tumor Progression to Retinal Diseases*

Maria Giuseppina Miano *Decoding Rare Neurodevelopmental Disorders: Molecular Mechanisms and Therapeutic Opportunities*

Gabriella Lania *Beyond Gene Expression: Metabolism, Protein Synthesis, and the Gut-Brain Axis in 22q11.2 Deletion*

Marcella Vacca / Laura Casalino *Modulation of MECP2 Allelic Expression in the Developing Brain: Implications for X-Linked Disorders*

Antonella Prisco *Modeling Antibody Persistence Through the Contributions of Antibody-Secreting Cell Subsets*

WEDNESDAY, JUNE 24TH — 2026

09:30–09:50

◆ INVITED SPEAKER

Dr.ssa Francesca Tuorto (Medical Faculty, Mannheim — Heidelberg University)

Molecular and Biological Functions of Queuosine tRNA Modification

9:50–11:15

SESSION 4.1 Molecular Oncology

Chair: Enza Lonardo · Marco Corona

Fernando Gianfrancesco *Molecular and Cellular Mechanisms Driving Skeletal Tumors*

Federica Scotto Di Carlo *Genomic Instability and Its Consequences in Cancer: From Mechanisms to Targetable Vulnerabilities*

Giovanna Liguori *Targeting Glioblastoma Cell Migration with Extracellular Vesicles*

Valerio Costa *Unraveling Molecular Alterations in BRAF-Mutated Thyroid Carcinomas: Multi-Omic Insights and Alternative Approaches to Target Tumor Vulnerabilities*

Emilia Caputo *Breast Cancer Organoids as Translational Platforms for Precision Oncology and Natural Compound Discovery*

11:15–11:45



Coffee Break



11:45–12:40 SESSION 4.2 *Molecular Oncology*

Chair: Dario De Cesare · Eduardo Patriarca

Donatella Delle Cave *Mitigating Pancreatic Cancer Aggressiveness by Targeting Epithelial Matrisome Components***Stefania Belli** *Unraveling the Multifaceted Role of Tumor Microenvironment in Therapy Resistance and Cancer Progression***Martina Mugnano** *Label-Free Quantitative Imaging Identifies Optical Signatures of Tumor Complexity and Heterogeneity in PDAC***12:40–13:00** Sponsor**Dott.ssa Eugenia Pisano (Bio-Rad Laboratories)** *Droplet Digital PCR: Accuratezza, Sensibilità e Quantificazione Assoluta per rispondere alle esigenze analitiche più complesse***Luca Salerno (Cytosens / Samplix)** *Double-Emulsion Droplets for Functional Analysis at the Single-Cell Level***13:00–15:00**

Lunch



& Poster Session II

15:00–15:20

◆ INVITED SPEAKER

Prof. Gennaro Napolitano (TIGEM – Telethon Institute of Genetics and Medicine · Università degli Studi di Napoli Federico II, Dipartimento di Scienze Mediche Traslazionali)*Selective Modulation of mTORC1 Signaling at the Lysosome***15:20–16:30**SESSION 5 *Embryonic Development and Biology of Stem Cells*

Chair: Dario Acampora · Alessandra Pescatore

Cristina D'Aniello *Human Pluripotent Stem Cell-Derived Lung Organoids: Insights into Lung Development and Disease***Ombretta Guardiola** *Sensing the Regenerative Niche: Insights into the Functional Plasticity of Muscle Stem Cells***Annalisa Fico** *From Stem Cell Models to tRNA-Based Therapy Exploration for IRF2BPL Disease***Sara Cioffi** *ADORA2A as a Key Determinant for the Neurobehavioural Phenotype in 22Q11.2 Deletion Syndrome*

Poster Awards

16:30 – 17:00 Commissione Poster – Prof. Ciccodicola

Sponsored by Cantine Lonardo · Chez Lu Ravello · Farmacia Vetere**17:00 – 17:30** Closing Remarks & Wrap-Up



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