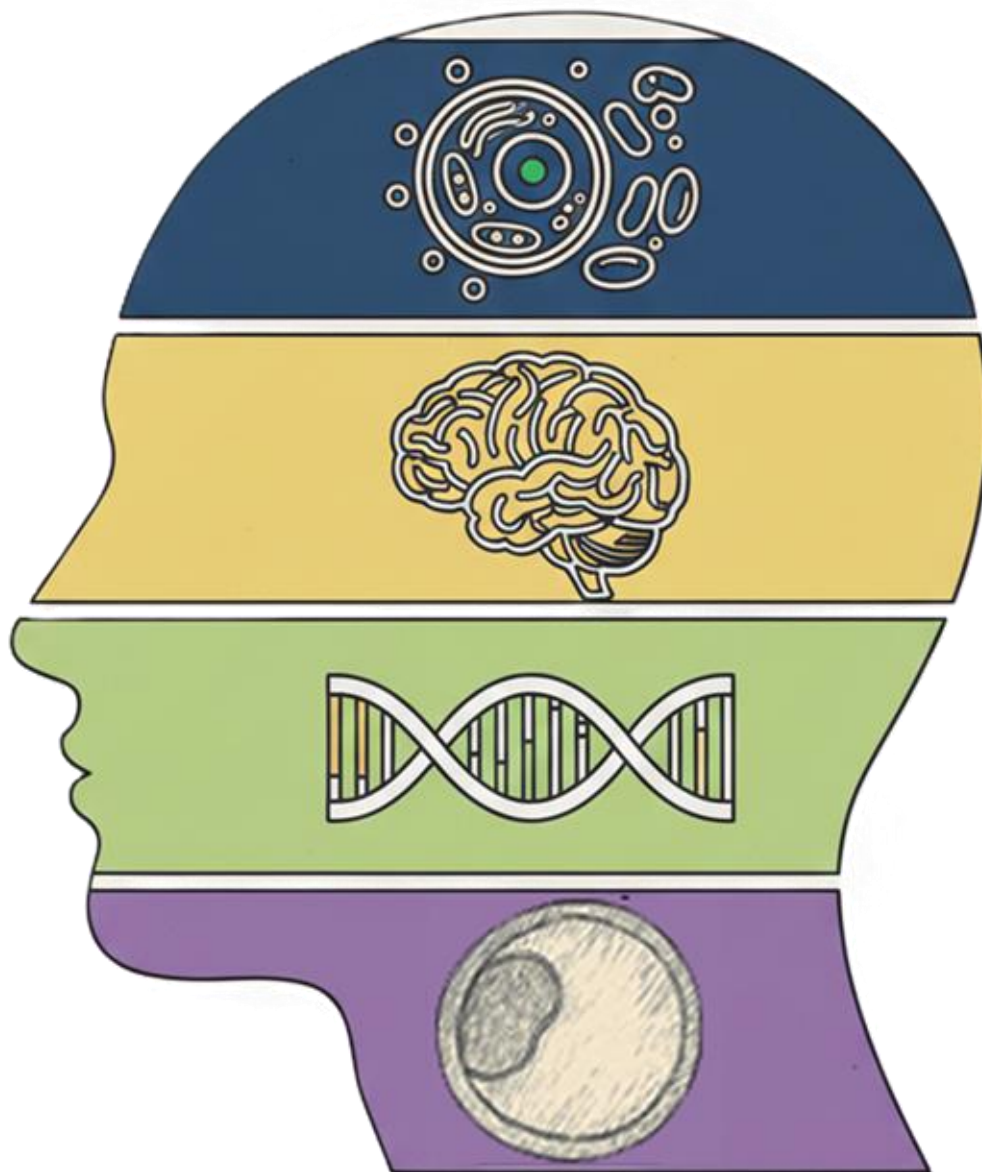




Istituto di Genetica e Biofisica Adriano Buzzati-Traverso

RETREAT 2026

23 – 24 JUNE 2026

Villa Doria d'Angri

Università degli Studi di Napoli "Parthenope"

Via Petrarca 80, Napoli



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

Saluti istituzionali

09:00–09:30

Prof. Alfredo Ciccodicola, *Acting Director-Istituto di Genetica e Biofisica "A.B.T" -CNR*
Prof. Antonio Garofalo, *Magnifico Rettore-Università degli Studi di Napoli "Parthenope"*
Prof. Matteo Lorito, *Magnifico Rettore-Università degli Studi di Napoli "Federico II"*
Prof. Pier Paolo Franzese, *Coordinatore corso di laurea in Scienze Biologiche-Università degli Studi di Napoli "Parthenope"*

✦ INVITED SPEAKER

09:30–09:50

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*

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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*

Salvatore Arbucci / Rosarita Tatè (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

09:00–09:30

Saluti istituzionali

Prof. Francesco Dotta, *Direttore del Dipartimento di Scienze Biomediche-CNR*

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 Bone Diseases and Tumors*

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

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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

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)

Substrate-specific mTORC1 Signaling in Lysosomal Adaptation and Tumorigenesis

15:20–16:30

SESSION 5 *Embryonic Development and Biology of Stem Cells*

Chair: Dario Acampora · Alessandra Pescatore

Sara Cioffi *ADORA2A as a Key Determinant for the Neurobehavioural Phenotype in 22q11.2 Deletion Syndrome*

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*

Cristina D'Aniello *Human Pluripotent Stem Cell-Derived Lung Organoids: Insights into Lung Development and Disease*



Poster Awards

16:30 – 17:00

Commissione Poster · Prof. Alfredo Ciccodicola

Sponsored by Cantine Lonardo · Chez Lu Ravello · Farmacia Vetere



17:00 – 17:30 Closing Remarks & Wrap-Up

RETREAT IGB 2026 POSTER SESSION

Poster	Session I- 23 June	
1	Assunta Aquino	<i>A Drug Repositioning Strategy Targeting S1P-Mediated Signaling to Counteract Neuroinflammation in Rett Syndrome</i>
2	Francesca D'Amato	<i>Common and Rare Variants in GRK5 Gene Concur to the Pathogenesis of Parkinson's Disease</i>
3	Angela Pagano	<i>Loss of Maternal PADI6 Disrupts DNA Methylation and Impairs Preimplantation Development</i>
4	Mariarca Marciano	<i>Proteomic Analysis of iPSC-Derived Mesodiencephalic Dopaminergic Neurons Identifies Novel Dysregulated Pathways and Biomarkers for Parkinson's Disease</i>
5	Vincenzo Lullo	<i>Gene-Corrected Stem-Cell Models to Reverse the Immune Phenotypes in ICF Syndrome, a Rare Inborn Error of Immunity</i>
6	Daniela Ruggiero	<i>A Multi-Omics Strategy Identifies Novel Genes and Variants Associated with T2D in Cilento Populations</i>
7	Giuseppe Giurin	<i>Multi-Omics Integration Using ARACNe3 and NaRnEA Identifies Master Regulators and Novel Genetic Variants Associated with Parkinson's Disease</i>
8	Sonia Panico	<i>Crispr-Based Gene Therapy Targeting PlGF Signaling to Inhibit Pathological Neovascularization in Age-Related Macular Degeneration</i>
9	Teresa Nutile	<i>An Integrated Multi-Omic Framework for Comprehensive Genomic Discovery Using Short- and Long-Read Sequencing</i>
10	Daniela Alfano	<i>Tbx1 Coordinates Focal Adhesion Dynamics and non-Canonical Wnt/PCP Signaling to Regulate Cardiac Morphogenesis</i>
11	Denise Drongitis	<i>Toward the Identification of Gene-Specific Alternative Splicing Patterns in Glioblastoma Multiforme</i>
12	Alessia Gaeta	<i>Ultra-Processed Foods Drive Immune Activation and Metabolic Dysfunction in Pediatric Obesity and Metabolic Syndrome: Insights from the UFO Project</i>
13	Marcella D'Ambrosio	<i>Study of HLA-DQB1-AS1, the Antisense Lncrna: a Potential Role in the Regulation of HLA-DQ2.5 Risk Genes of Coeliac Disease</i>
14	Roberta Genserico	<i>Exploring the Molecular Effects of Ozanimod in Different Brain Regions of the Mecp2^{-Y} murine Model of Rett Syndrome</i>
15	Maria Matarazzo	<i>Allele-Specific Dosage Normalization of Hsa21 Genes in Trisomic iPSC Cells Using a Doxycycline-Inducible Crispr-Cas9 System</i>
16	Sharon Russo	<i>ZNF687 Regulates Myeloid Lineage Commitment and Bone Marrow Homeostasis</i>
17	Giovanna Ponticelli	<i>Generation and Characterization of Lung Organoids from Human Pluripotent Stem Cells to Study Lung Development and Disease</i>
18	Mario Aversano	<i>Secure Cloud Platform for Storage and Analysis of Genomic and Clinical Data for Bioinformatics Applications and Biobanks</i>
19	Claudia Rallo	<i>IGB Network Infrastructure</i>
20	Rosarita Tatè/ Donatella Jesu	<i>Bridging Science and Society: Innovation, Dialogue, Impact</i>

Poster	Session II- 24 June	
1	Federica Carrillo	<i>Rare Variants Combination Drive Convergent Lipid-Mitochondrial Dysfunction and Variant-Specific Excitability Phenotypes in Parkinson's Disease Neurons</i>
2	Ezia Spinosa	<i>A Case of Incontinentia Pigmenti Associated with Concurrent IKBKG/NEMO and MED13L Mutations</i>
3	Denise Drongitis	<i>Evaluation of the Neuroprotective Effects of Vorinostat in a Mouse Model of Drug-Resistant Early Onset Epilepsy (dre)</i>
4	Carmela Casale	<i>GADD45β Inhibits RIPK3 -Mediated NF-κB Activation by Interfering with NEMO-RIPK1-RIPK3 Interactions</i>
5	Simone Mas	<i>Mechanobiology-Guided Drug Repurposing Identifies Budesonide as an Inhibitor of Stiffness-Induced PDAC Aggressiveness</i>
6	Maria Iavazzo	<i>Tumor–Stroma Fusion: a Novel Mechanism of Interaction Between PSCs and PDAC Cells</i>
7	Federica Saracino	<i>Pharmacological Induction of a Reversible Dormancy-Like State in Colorectal Cancer Organoids by Budesonide</i>
8	Eduardo Ibello	<i>Context-Dependent Effect of Glucocorticoid Receptor Activity Shapes Ovarian Cancer Cell Plasticity and Therapy Response</i>
9	Claudia Vilardo	<i>Targeting Tumor-Derived Collagen Reduces Pancreatic Cancer Aggressiveness</i>
10	Alessia Pianese	<i>Pharmacologic Induction of an Adipocyte-Like State Redirects BRAF-Mutated Anaplastic Thyroid Carcinoma Cells Toward a Less Malignant Phenotype</i>
11	Paola Franco	<i>Suppression of Astrocyte Pro-Tumoral Activity in Glioblastoma Multiforme by uPAcyclinII Decapeptide</i>
12	Concetta D'Antonio	<i>Extracellular Vesicle-Based Targeting of Glioblastoma Migration and Invasiveness: a Potential Path to Therapy</i>
13	Speranza Annunziata	<i>Characterization of uc.8+ Endogenous Expression through BaseScope™ Technology and Targeted Silencing Approaches</i>
14	Filomena Amoroso	<i>Sirt3, a Key Mitochondrial Deacetylase, Regulates Gastruloid Development</i>
15	Sara Allegretti	<i>Regulatory Architecture Dissection of the Tbx1 Gene</i>
16	Olimpia Iacolare	<i>Paxillin Plays a Critical Role in the Pharyngeal Archs Segmentation During the Pharyngeal Apparatus Morphogenesis.</i>
17	Angela Gambardella	<i>Exploring the Role of the Chemokine Receptor CXCR2 in Muscle Stem Cell Heterogeneity</i>
18	Arianna Coppola	<i>Ultraconserved lncRNA T-UCstem1 Regulates Paracrine WNT Responsiveness During Gastruloid Development</i>
19	Laura Casalino	<i>OASI Biobank: an Integrated Infrastructure Advancing Asplenia Research</i>
20	Lucia Verrillo	<i>Spatiotemporal Characterization of Microglia in a Mouse Model of Developmental Epileptic Encephalopathy</i>



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