

XXIV CONVEGNO ED ASSEMBLEA COLLEGIO DEI DOCENTI DI ISTOLOGIA ED EMBRIOLOGIA UMANA

Società Scientifica riconosciuta dal Ministero della Salute



Comitato Scientifico:

Prof. Simona Sivori PO Genova
Prof. Luca Tamagnone PO Cattolica
Roma Prof. Giorgio Mori PO Foggia
Prof. Graziana Colaianne PA Università di Bari
Prof. Marina Bouché PA La Sapienza Roma

**Napoli 20 e 21 Febbraio 2025 - Aula Magna Complesso di Santa Patrizia,
via Luciano Armanni, 5
Scuola di Medicina e Chirurgia - Università della Campania "L. Vanvitelli"**



MAIN TOPICS:

- Tissue homeostasis and regeneration: understanding normal tissues to prevent and treat degenerative diseases
- Modeling normal and pathological tissues in vitro: organoids and biomaterials
- The histology of Cancer: novel investigation approaches and therapeutic opportunities
- Imaging in the era of deep molecular analyses at single cell level
- Understanding the unfolding of Human development: from the knowledge of basic processes to developmental disorders.

XXIV CONGRESS CDIE NAPLES FEBRUARY 20-21, 2025

"Human Histology and Embryology: Cutting-Edge Research and Educational Practices"

Location: Aula Magna "Complesso di Santa Patrizia"
Università della Campania "L. Vanvitelli", via L. Armanni
5 ground floor-80121 Naples (I)

Feb 20th, 2025, 1st Day

Morning

09:00 - 9:30: Registration and Welcome

- Participant check-in
- Distribution of informational material (program, etc.)

09:30: Opening and Welcome Address - Aula Magna

- Short Introduction to the theme of the congress and the objectives of the two days

9:45 - 10:15: Keynote Speech - Aula Magna

Chairmen: Matilde Young Follo and Michelangelo Cordenonsi

- Lecture by Prof. Alexandre Calon - IRB, Barcelona
Prognostic and Predictive Value of the Tumor Microenvironment

10:15 - 10:30: Coffee Break

10:30 -12:45: Plenary Session 1 - Aula Magna

Chairmen: Clara Nervi, Maria Grano and Monica Mattioli Belmonte

- 10:30 Tito Panciera - University of Padova
The cell as integrated mechanosensor
- 10:45 Barbara Peruzzi - Catholic University of Rome
New insights in studying bone mechanopathology
- 11:00 Paolo Grumati - University of Naples Federico II, TIGEM
ER-phagy regulates ER dynamics during myogenesis
- 11:15 Stefano Perni - University of Siena
Dissecting the molecular interactions in SR/ER-PM junctions of muscle and nerve

- 11:30 Angela Gritti - S. Raffaele University, Milan
Exploiting advanced human induced pluripotent stem cell (iPSC)-based 3D models to study Globoid Cell Leukodystrophy
- 11:45 Giovanni Sorrentino - University of Trieste
Modeling cholangiocarcinoma development using biliary organoids
- 12:00 Federica Papaccio - University of Salerno
Decoding chromosomal instability in colorectal cancer patient-derived organoids
- 12:15 Barbara Lupo - University of Turin
Decoding the Role of TCF7L2/TCF4 in Shaping Colorectal Cancer Phenotypes and Aggressiveness

12:30 - 13:45: Lunch

Afternoon

○ **13:45 - 15:00 Parallel Session 1: Cell signalling and Cancer— Aula Magna**

Chairmen: Antonio Filippini, Silvia Giordano and Virginia Tirino

- 13:45 Michela Sgarzi - University of Bologna
Cell motility and nuclear architecture regulation through MET/YAP-driven modulation of perinuclear actin cap alignment
- 14:00 Marco Montagner - University of Padova
Understanding the determinants of the invisible phase of metastasis
- 14:15 Mario Falchi - University of Bologna
Time-lapse observations identify distinctive types of emperipolesis between neutrophils and megakaryocytes from the bone marrow of Gata1low mice with myelofibrosis
- 14:30 Elisabetta De Marinis - University of Rome La Sapienza
Epigenetic/transcriptional targeting of Flotillin-1 gene promoter by nuclear miR-223: unveiling a new mechanism underlying myelopoiesis
- 14:45 Valentina Serafin - University of Modena and Reggio E.
Intracellular cholesterol reduction mediated by NFATc1 deficiency affects cell signaling and mitochondria metabolism

○ **13:45 - 15:00 Parallel Session 1: Development, Homeostasis and Regeneration- Aula Sp4**

Chairmen: Daniele Bani, Nunzia Bernardini and Oriana Trubiani

- **13:45 Micol Massimiani** - S. Camillus University, Rome
Molecular regulation of placental development: the role of EGFL7
- **14:00 Enrica Bianchi** - University of Roma Tor Vergata
IZUMO1 binding to the orphan receptor LILRA5 mediates sperm recognition by the innate immune system
- **14:15 Barbara Cassani** - University of Milan
Role of Dipeptidyl peptidase 3 (Dpp3) in disease tolerance and immune resistance against bacterial pulmonary infection
- **14:30 Francesca Bianchi** - University of Milan
Ultrastructural morphological study as a tool for identifying early heart damage: the protective effects of a high-fiber diet against dysbiosis
- **14:45 Ylenia Della Rocca** - University of Chieti
IPs from autologous human gingival stem cells and extracellular vesicles: a new tool for cardiac regeneration.

15:00 - 15:15: Coffee Break

○ **15:15 - 16:45 Parallel Session 2: Degenerative diseases and response to injury - Aula Magna**

Chairmen: Antonio Musarò, Valeria Sogos and Antonia Follenzi

- **15:15 Alessandro Fraldi** - University of Naples Federico II
Lysosomal diseases as a paradigm to understand the mechanisms of autophagy lysosomal pathways in brain homeostasis and neurodegeneration
- **15:30 Ermanna Turano** - University of Verona
Clinical and histopathological evaluation of adipose stem cells-derived extracellular vesicles as a novel therapy in an experimental model of multiple sclerosis
- **15:45 Nicolina Cristina Sorrentino** - University of Naples Federico II, TIGEM
TRPML1 activation improves skeletal muscle deterioration and storage pathology in Pompe Disease
- **16:00 Carolina Pellegrini** - University of Pisa
Intestinal microbiota-gut-brain axis in neurodegenerative disorders: from bench to bedside

- **16:15 Simona Casarosa** - University of Trento
Developing an in vitro model to unveil IMPG2 role in Retinitis Pigmentosa
- **16:30 Maria Teresa Viscomi** - Catholic University of Rome
Role of Semaphorin 6C in remote cell death after focal brain injury

○ **15:15-16:30 Parallel Session 2: Cancer Therapy - Aula Sp4**

Chairmen: Sandra Marmioli, Mattia Lauriola and Livio Trusolino

- **15:15 Diletta Di Mitri** - Humanitas University, Milan
Dissecting macrophage diversity in cancer to unveil distinct contributions to therapeutic resistance
- **15:30 Renato Ostuni** - S. Raffaele University, Milan
Spatial and molecular control of tumor-associated macrophages
- **15:45 Barbara Canonico** - University of Urbino
Selective Endocytic Uptake of different decorated Liposomes in intestinal cancer cells
- **16:00 Emanuela Guerra** - University of Chieti
A novel combination of anti-Trop-2 monoclonal antibodies shows enhanced antitumor efficacy in vivo
- **16:15 Andrea Arleo** - University of Bologna
Emerging role of CTLA4 and PD-L1 in atezolizumab bevacizumab response in human hepatocellular carcinoma

17:00 - 19:00: CDIE Members Assembly - Aula Magna

- session dedicated to the CDIE Members Assembly

19:00 - 20:00: Free Time

20:00 - 22:00: Social Dinner at Palazzo Caracciolo

Feb 21st 2nd Day

Morning

08:30 – 9:00 Keynote Speech - Aula Magna

Chairmen: Carmine Settembre and Michelangelo Cordenonsi

- Lecture by Prof. Nikolaus Rajewsky - MDC-BIMSB, Berlin
Spatial Transcriptomics and understanding phenotypes from digitalized tissues

9:00-10:50: Monesi-Rizzoli Award V Edition - Session 1 - Aula Magna

Chairmen: Graziana Colaianni, Simona Sivori and Giorgio Mori.

- 9:00 Francesca Arciprete - University Campus Bio-Medico, Rome
The C-C Chemokine-Receptor 2 (Ccr2)/Ccl2 axis contribute in the development of myelofibrosis
- 9:12 Vito Amodio - IFOM, Milano
Immunohistochemical and flow cytometric characterization of epithelial tumors harbouring alterations in DNA repair mechanisms
- 9:24 Kristi Buzo - University of Turin
Inhibiting WEE1 kinase to overcome acquired resistance to targeted therapies in colorectal cancer
- 9:36 Martina Marigliano - University of Salerno
Mitochondrial transfer in breast cancer tumor microenvironment
- 9:48 Giulia Orlandi - University of Modena and Reggio E.
Biological properties of cholangiocytes when exposed to inflammatory microenvironment: activation of IL-6 and PD-L1 pathways
- 10:00 José Freni - University of Messina
Human Cytomegalovirus infection induces adaptive reconfiguration of NK cells resulting in increased atherosclerotic plaque instability
- 10:12 Patrizia Nardini - University of Florence
Beta-3 adrenoceptor agonist protects the intestinal enteric nervous system against the hyperoxia-induced alterations
- 10:24 Chiara Mazziotta - University of Ferrara
Epigenetic regulation of human dermal fibroblasts: the role of Hsa-miR-210-3p on cell proliferation and differentiation

- 10:36 Federica Scalia - University of Palermo
Developmental defects on zebrafish (Danio rerio) after exposure to fossil-based and bio-based plastic derivatives

10:50-11:05 Coffee Break

11:05 - 12:40: Monesi-Rizzoli Award V Edition - Session 2 - Aula Magna

Chairmen: Luca Tamagnone and Marina Bouché

- 11:05 Roberta Zerlotin - University of Bari
Loading-related changes affect FNDC5/Irisin in the musculoskeletal system
- 11:17 Annunziata Laurino - University of Siena
miR-486 overexpression improves skeletal muscle function in two different mouse models of RyR1-related myopathies
- 11:29 Mariangela di Vincenzo - Università Politecnica delle Marche
Mitochondrial alteration in Mesenchymal Stem Cells: a crucial factor in osteoporosis development in Cushing's Syndrome
- 11:41 Chiara Sgromo - University of Novara
Exploring transcriptomic variability in induced Pluripotent Stem Cells derived from Amyotrophic Lateral Sclerosis patients carrying different mutations
- 11:53 Francesca Paris - University of Bologna
Dual Function Strategy for Type 1 Diabetes: Insulin-Producing and Immune-Modulating Perinatal Cell Spheroids
- 12:05 Sara Petrosino - University of Naples Federico II, TIGEM
Targeting Endo-Lysosomal autophagy pathway in GLUT1 Deficiency Syndrome

12:30 - 13:30: Lunch

Afternoon

13:30 - 15:00: Young investigators - Mario Stefanini Award - Parallel Session 1 -Aula Magna

Chairmen: Francesco Fazi, Marco Montagner and Federica Papaccio

- **13:30 Claudia Palazzo** - Catholic University of Rome
Neuropilin1-dependent paracrine signaling of cancer cells mediated by miRNA exosomal cargo
- **13:40 Eleonora Ceneri** - University of Bologna
Leukemic cells adherence to mesenchymal stromal cells: a new mechanism for stem cell differentiation in hematopoietic cells?
- **13:50 Viola Velardi** - University Campus Bio-Medico, Rome
Morphological study of bone marrow microenvironment in Multiple Myeloma patients
- **14.00 Alessia De Stefano** - University of Bologna
Impact of a PLCG2 point mutation on proliferation and apoptosis of hematopoietic cells
- **14.10 Daniela Conticelli** - University of Turin
Gastric organoids as a tool to model microsatellite unstable gastric cancer
- **14:20 Valentina Obino** - University of Genoa
Downmodulation of PD-1 receptor in NK cells using siRNA technology: a novel approach for immune-checkpoint blockade therapy
- **14:30 Roberta Mastrantonio** - Catholic University of Rome
Semaphorin 4C-dependent regulation of ferroptosis in ovarian cancer cells: implications for therapy responsiveness
- **14:40 Marcella La Noce** - University of Campania L. Vanvitelli
HDAC1 inhibition drives chondrosarcoma differentiation promoting anti-tumor effects
- **14:50 John Charles Rotondo** - University of Ferrara
DNA Methylation profiling to assess the Merkel cell carcinoma originating cell

13:30 - 15:10: Young investigators - Mario Stefanini Award - Parallel Session 2 - Aula SP4

Chairmen: Tullia Maraldi, Luisa Campagnolo and Paolo Grumati

- **13:30 Claudia Tito** - University of Rome La Sapienza
The involvement of Sorcin protein in the alveolarization process during lung development
- **13:40 Valentina Lacconi** - University of Rome Tor Vergata
Modelling in vitro the foetal-maternal interface
- **13:50 Vanessa D'Antongiovanni** - University of Pisa
Intestinal organoids as a tool to study intestinal mucosal barrier alterations in digestive and extra-digestive diseases
- **14:00 Valerio Gelfo** - University of Bologna
IL-1 in the microenvironment impairs response to EGFR-neutralization
- **14:10 Alessandra Loda** - University of Brescia
BOC-FLFLF And Its Derivatives as A Novel Strategy to Overcome VEGF Drug Resistance in Diabetic Retinopathy
- **14:20 Clarissa Pierucci** - University of Pisa
Beneficial effects of a novel gut-directed NLRP3 inflammasome inhibitor in experimental models of Alzheimer's disease
- **14:30 Luigi Balasco** - University of Trento
Sex-specific effects of Ube3a overdosage on Autism: Insights from Connectomic, Behavioral, and Transcriptomic Alterations
- **14:40 Martina Gatti** - University of Modena and Reggio E.
Crosstalk among neurons, muscle and bone: in vitro model of triple culture
- **14:50 Giuseppina Storlino** - University of Foggia
Cortical bone loss and fragility precedes amyloid deposition in a triple transgenic mouse model of Alzheimer's disease
- **15:00 Laura Cinque** - University of Naples Federico II, TIGEM
Regulation of ribosome activity by nutrients

15:10-15:20 - Aula Magna

- Concluding discussion on the topics covered during the congress
- Planning of potential next steps or collaborative projects

15:20: Award Ceremony - Aula Magna

- Announcement and awarding of the winners of the "Monesi-Rizzoli V Edition Award" and the "Mario Stefanini Award".
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15:30 Closing and Thanks - Aula Magna

- Closing speech by the organizer
- Thanks to participants, speakers, and sponsors
- Participation certificates will be sent to the mails of each one

Additional Notes

- **Exhibitions and Stands:** sponsors or interested companies, informational stands can be set up in common areas.
- **Congress App:** Consider using a mobile app for the congress to facilitate program management, interaction, and networking among participants.