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DI SIENA  
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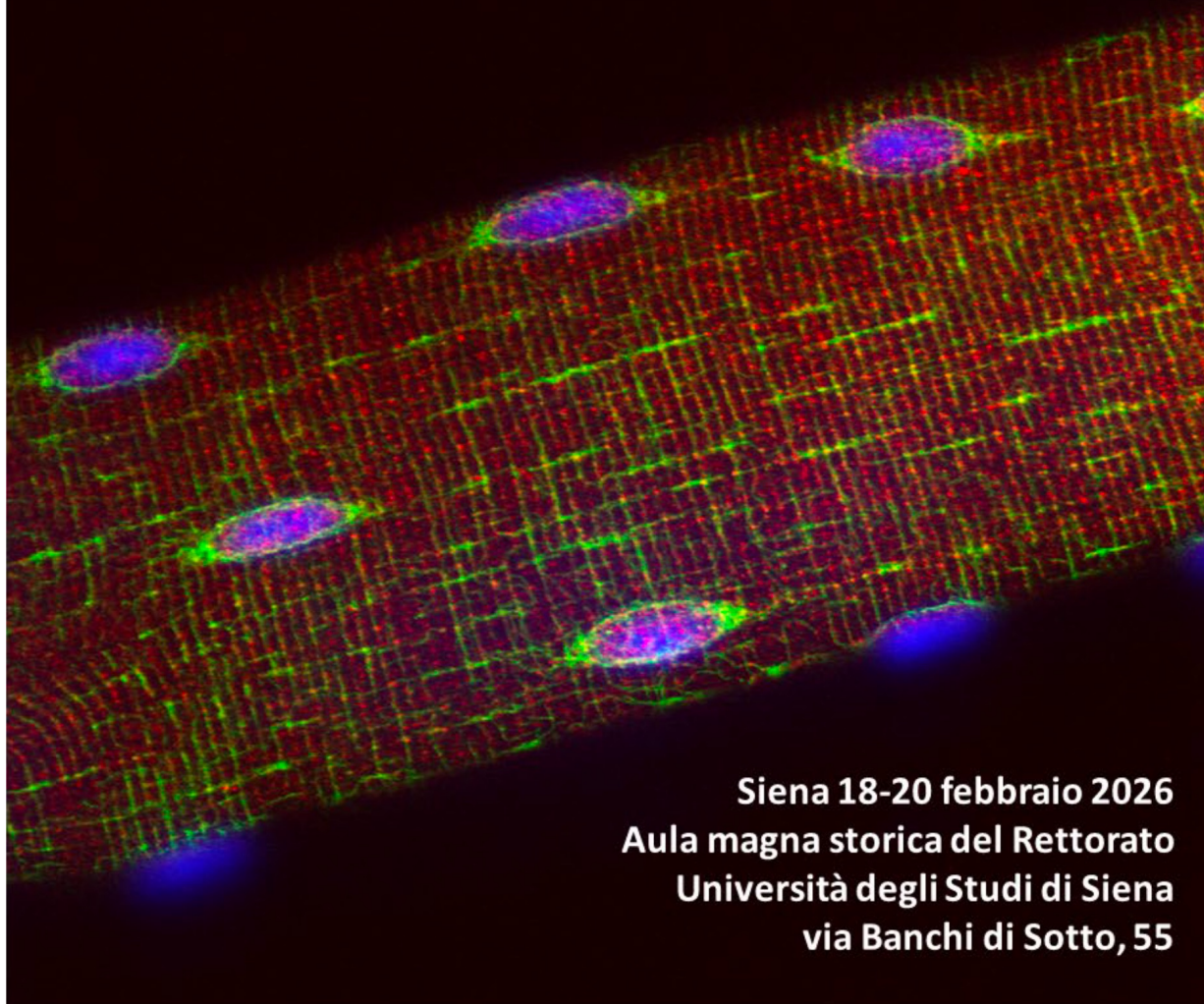


DIPARTIMENTO DI  
**MEDICINA MOLECOLARE  
E DELLO SVILUPPO**  
— DMMS

## XXV CONGRESSO DEL COLLEGIO DEI DOCENTI DI ISTOLOGIA ED EMBRIOLOGIA UMANA

Società Scientifica riconosciuta dal Ministero della Salute

### **Human Histology and Embryology: Cutting-Edge Research and Educational Practices**



**Siena 18-20 febbraio 2026**  
**Aula magna storica del Rettorato**  
**Università degli Studi di Siena**  
**via Banchi di Sotto, 55**

Comitato scientifico:

Prof. Sivori Simona  
Prof. Luca Tamagnone  
Prof. Giorgio Mori  
Prof. Graziana Colaiani  
Prof. Marina Bouchè

Comitato organizzatore:

Prof. Vincenzo Sorrentino  
Prof. Daniela Rossi  
Prof. Enrico Pierantozzi  
Prof. Stefano Perni  
Dott. Annunziatina Laurino

## **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.

# **XXV CONGRESS CDIE SIENA FEBRUARY 18-20, 2026**

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

**Location: Aula Magna**

**Università di Siena**

**Via Banchi di sotto n. 55, Siena (IT)**

**Feb 18<sup>th</sup>, 2026, 1<sup>st</sup> Day**

**Afternoon**

### **15:00 - 15:30: Registration and Welcome**

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

### **15:30: Opening and Welcome Address - Aula Magna**

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

### **15:45 - 16:30: Keynote Speech - Aula Magna**

**Stefano Piccolo - University of Padua**

**Chairmen: Vincenzo Sorrentino and Gianpaolo Papaccio**

### **16:40 -18:00: Plenary Session 1 - Cancer tissues**

- 16:40 Federica Papaccio - University of Salerno  
*Enhancing NK Cell-Mediated Cytotoxicity Against Breast Cancer Organoids via HLA-I Blockade: Toward Novel Immunotherapeutic Strategies*

- 17:00 Cristina Migliore - University of Turin  
*AREG and EREG Are Predictive Biomarkers of Response to EGFR Inhibition in Gastroesophageal Cancer*
- 17:20 Donatella Romaniello - University of Bologna  
*Establishment Of Patient-Derived Xenografts (PDXs) To Assess The NRG1/HER3 Axis As A Mechanism Of Therapy Resistance In Head And Neck Squamous Cell Carcinoma*
- 17.40 Claudio Isella - University of Turin  
*A cancer cell-intrinsic program for matrix remodeling and CAF recruitment in slow-growing, poor-prognosis colorectal cancers*

**18:00 - 19:00: Giunta CDIE allargata**

## **Feb 19<sup>st</sup> 2<sup>nd</sup> Day**

### **Morning**

#### **9:00-10:40 Monesi-Rizzoli Award VI Edition - Session 1**

- 8:30 Desiree Genovese - University of Rome La Sapienza  
*Mechanical stiffness modulates macrophage-dependent remodeling in 3D-engineered muscle tissue*
- 8:42 Lorenza Esposito - University of Rome La Sapienza  
*Targeting trained immunity in duchenne muscular dystrophy*
- 8:54 Federica Fiore - University of Siena  
*miR-486 overexpression ameliorates skeletal muscle alterations in mouse model of Central Core Disease (CCD)*
- 9:06 Ruggieri Veronica - University of Rome La Sapienza  
*Polyamine metabolism dysregulation contributes to muscle fiber vulnerability in ALS*
- 9:18 Giuseppina Storlino - University of Foggia  
*Bone-Muscle Alterations in a Triple Transgenic Mouse Model of Alzheimer's Disease: Early Manifestations of AD*
- 9:30 Mauro Caprioli - University of Verona  
*Neuroprotective effect of extracellular vesicles from adipose mesenchymal stem cells diffused through an in vitro epithelium on injured motoneurons cells*
- 9:42 Sofia Nutarelli - Università Cattolica del Sacro Cuore  
*Targeting Semaphorin6c to Counteract Remote Degeneration After Focal Brain Injury*
- 9:54 Andrea Parente - University of Naples Federico II  
*Progressive activation of the astrocyte A1 phenotype underlies microglia-astroglia crosstalk and contributes to neuroinflammation in neuronopathic MPS*

#### **10:10-10:30 Coffee Break**

#### **10:30-12:30: Monesi-Rizzoli Award VI Edition - Session 2**

- 10:30 Claudia Palazzo - Università Cattolica del Sacro Cuore  
*Extracellular vesicles derived from lung cancer cells as potential cellular biopsies to study drug resistance mechanisms*

- 10:42 Irene Catalano - University of Turin  
*Phenotypic plasticity and heterotypic cell-cell interactions sustain drug tolerance to EGFR inhibition in colorectal cancer*
- 10:54 Valentina Obino - University of Genoa  
*Colorectal cancer-infiltrating NK cell landscape analysis unravels tissue-resident PD-1+ NK cells in microsatellite instability tumors*
- 11:06 Marco Cortese - University of Turin  
*Improving effector cells for CAR-NK immunotherapy against Colorectal Cancer*
- 11:18 Vito Amodio - IFOM  
*Assessing the heterogeneity of mismatch repair through multi-block analyses*
- 11:30 Marta Prelli - University of Turin  
*An ex vivo model to address evolution and adaptation of glioblastoma stem-like cells under therapeutic pressure*
- 11:42 Valentina Giansante - University of Chieti and Pescara  
*Investigating the correlation between mitochondrial dysfunction and mito-evs trafficking in pancreatic ductal adenocarcinoma (PDAC)*
- 11:54 Annapaola Montagner - University of Bologna  
*Uncovering the role of intrinsic PD-1 in the response to PD-1 blockade in hepatocellular carcinoma*
- 12:06 Francesca Arciprete - Università Campus Bio-Medico  
*Supportive role of the bone marrow vascular niche and megakaryocytes in the regulation of the hematopoietic stem cells (HSCs) proliferation dynamic in aging and cancer evolution*

## **12:20 - 13:50: Lunch**

## **Afternoon**

### **13:50 - 15:45 Monesi-Rizzoli Award VI Edition - Session 3**

- 13:50 Alessia Di Pauli - University of Rome La Sapienza  
*Early nuclear upregulation of SUMO2/3 and possible SUMOylation in the proteomic adaptive response of human germ cells to simulated microgravity*
- 14:02 Claudia Bianco - University of Roma Tor Vergata  
*Reduced expression of EGFL7 in trophoblast cells affects embryo implantation: a 3D in vitro study*

- 14:14 Giorgia D'Addato - Saint Camillus International University  
*Use of factors released from human adipose stem cells for ovarian tissue regeneration*
- 14:26 Giuseppa D'Amico - University of Palermo  
*Development of an air quality biomonitoring system based on an ex vivo human respiratory mucosa model*
- 14:38 Patrizia Nardini - University of Florence  
*Beta-3 Adrenoceptor Agonism is a promising strategy against bronchopulmonary dysplasia*
- 14:50 Davide Selvestrel - University of Trieste  
*Human iPSC-derived liver organoids reveal ductular reaction as a hallmark of Wolman disease and support rational gene therapy development*
- 15:02 Antonio Maurizi - University of L'Aquila  
*Generation and phenotyping of the first mouse model of P4HB-dependent Cole Carpenter Syndrome*
- 15:14 Fabiana Nicita - University of Messina  
*Endothelial-to-Mesenchymal Transition and NLRP3 Inflammasome Signaling in the Heart of a HOCl-Induced Murine Model of Systemic Sclerosis*

## **15:30 - 15:50: Coffee Break**

## **15:50 - 17:30: Young investigators**

- 15:50 Pasquale Marrazzo - University of Urbino  
*Keratinocyte spheroid culture as a model to endorse blue turmeric skin protective effects*
- 16:00 Claudio Intini - University of Cagliari  
*Conjugated linoleic acid promotes anti-inflammatory and chondrogenic MSC phenotypes through lipid metabolic remodeling in 2D and 3D collagen scaffolds for cartilage repair*
- 16:10 Valentina Lacconi - University of Roma Tor Vergata  
*Development and Functional Characterization of a Human In Vitro Placental Barrier Model to Study the Impact of Environmental Toxicants*
- 16:20 Clarissa Pierucci - University of Pisa  
*Gut-brain axis in Alzheimer's disease: effect of a novel probiotic mixture in an animal model*
- 16:30 Martina Lupoli - University of Rome La Sapienza  
*AntiSense Oligonucleotides (ASO) based treatment in ALS mouse models*

- 16:40 Luisa Pellicani - University of Bari  
*The exercise-mimetic irisin increases the size of hippocampus and dentate gyrus and up-regulates the expression of key factors of neuroplasticity in aged mice*
- 16:50 Aditya Nigam - University of Campania Luigi Vanvitelli  
*Understanding the interplay of EPHA2 and CD44 in colorectal cancer proliferation, stemness, and EMT*
- 17:00 Pietro Paolo Vitiello - University of Turin  
*Treatment with alkylating agents promotes downregulation of MMR proteins and anti-tumor polarization of the immune microenvironment in mismatch repair proficient (MMRp) colorectal cancer (CRC)*
- 17:10 Viola Velardi - Università Campus Bio-Medico  
*Impact of CXCL1 expression in mutation related models of myelofibrosis for the dysregulation of pathological Neutrophils- Megakaryocytes interaction*
- 17:20 Ester Borroni - Università di Piemonte Orientale  
*Safe and long-term in vivo tolerogenic expression of FVIII by LV targeting hepatic endothelial cells*

### **17:30 - 19:00: CDIE Members Assembly**

Session dedicated to the CDIE Members Assembly and Prize Awards

**19:00 - 20:00: Free Time**

**20:00 - 22:00: Social Dinner at NH Hotel Siena**



## **Feb 20<sup>st</sup> 3<sup>rd</sup> Day**

### **Morning**

#### **9:00-11:20 : Plenary Session 2 - *Degenerative diseases and response to injury***

- 9:00 Carolina Pellegrini - University of Pisa  
*Gut barrier alterations and enteric nlrp3 inflammasome activation in early and premotor parkinson's disease*
- 9:20 Angela Gritti - Vita-Salute San Raffaele University  
*Enhancing oligodendrocyte maturation from human iPSC-derived neural progenitors using CRISPR activation strategies*
- 9:40 Ylenia Della Rocca – Link Campus University  
*Dopaminergic differentiation from the novel pluripotent cell line hGMSCs-derived iPS: a new tool for personalized regenerative medicine*
- 10:00 Matteo Giovarelli - University of Milan  
*Enhancing micro-dystrophin gene therapy for Duchenne Muscular Dystrophy (DMD): the role of Sirtuin1-activating compound SRT2104*
- 10:20 Daniela Rossi - University of Siena  
*Loss of CCDC78 impairs body weight and muscle force in a knockout mouse model*
- 10:40 Barbara Peruzzi - Università Cattolica del Sacro Cuore  
*New insights in studying bone mechanopathology*

#### **11:00-11:30 Coffee Break**

#### **11:30-12:30 : Plenary Session 3 - *Cancer progression and therapy***

- 11:30 Saverio Marchi - Università Politecnica delle Marche  
*Exploring the interplay between lipid droplets and mitochondria in cancer progression*
- 11:50 Sandra Marmioli - University of Modena and Reggio Emilia  
*Capivasertib and Prostate Cancer Targeting: Unraveling Resistance Elements*
- 12.10 Emanuela Guerra - University of Chieti and Pescara  
*Ultra-high dose rate (flash) radiotherapy shows reduced healthy-tissue damage in a preclinical murine model: an ultrastructural study*

#### **12:30 Closing and Thanks**

- Closing speech by the organizer
- Thanks to participants, speakers, and sponsors

Participation certificates will be sent to the mails of each one