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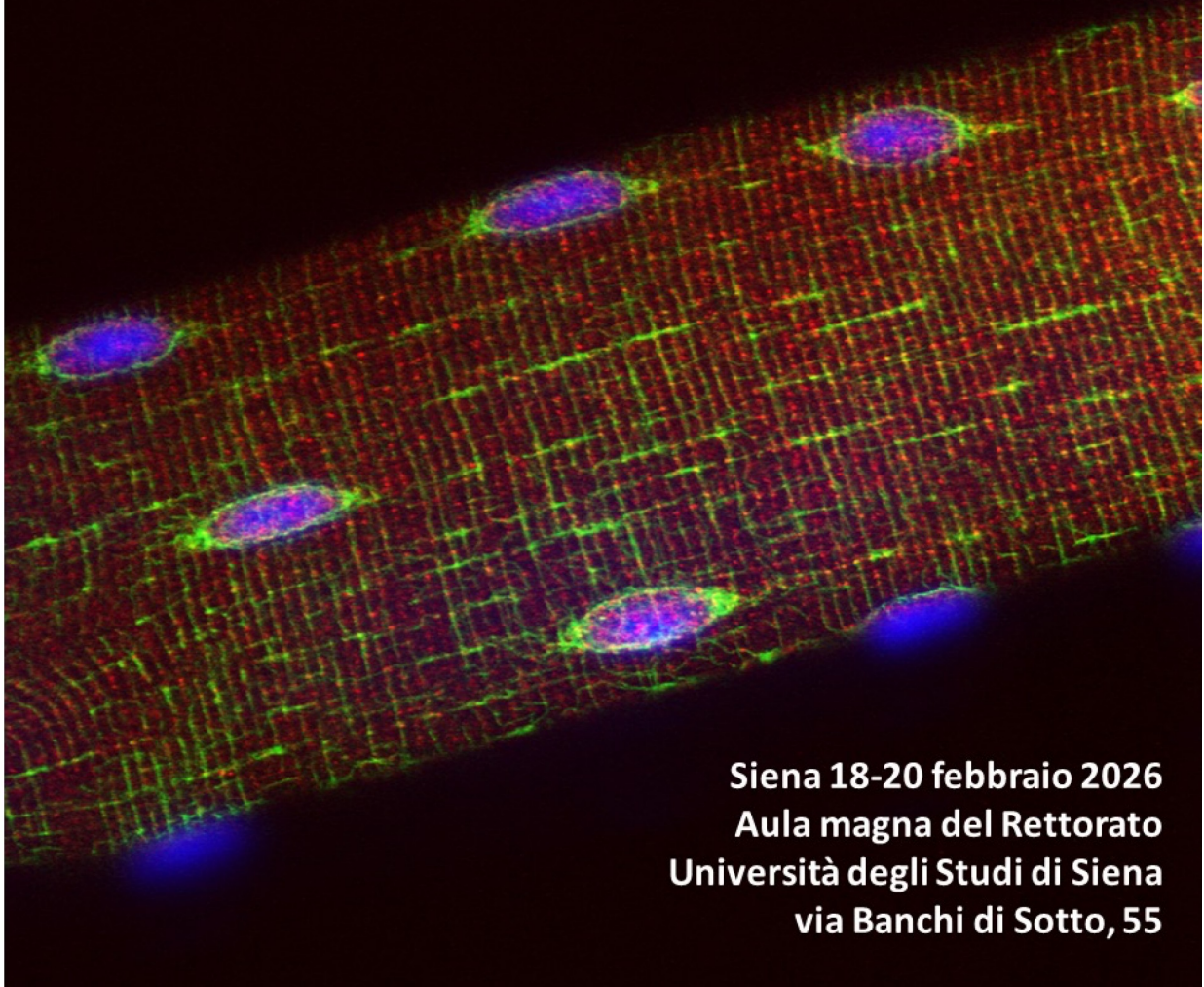


DIPARTIMENTO DI
MEDICINA MOLECOLARE
E DELLO SVILUPPO
— DMMS

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 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 Colaianni
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 18th, 2026, 1st Day

Afternoon

15:00 - 15:30: Registration and Welcome

- Participants 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 three days

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

Stefano Piccolo - University of Padua

Form and function of metastasis

Chairmen: Vincenzo Sorrentino and Gianpaolo Papaccio

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

Chairmen: Rosamaria Lappano and Michelangelo Cordenonsi

- 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 19th, 2026, 2nd Day

Morning

8:30-10:10 Monesi-Rizzoli Award VI Edition - Session 1

Chairmen: Simona Sivori, Luca Tamagnone, Giorgio Mori, Graziana Colaianni, Marina Bouchè

- **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 a 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

10:30-12:20: Monesi-Rizzoli Award VI Edition - Session 2
Chairmen: Simona Sivori, Luca Tamagnone, Giorgio Mori, Graziana Colaianni, Marina Bouchè

- 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 - 15:30 Monesi-Rizzoli Award VI Edition - Session 3 **Chairmen: Simona Sivori, Luca Tamagnone, Giorgio Mori, Graziana Colaianni, Marina Bouchè**

- 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 Andrea Marfoglio - University of Trieste
Viscoelastic remodeling of the tumor microenvironment licences cholangiocarcinoma progression
- 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

Chairmen: Saverio Marchi, Enrico Pierantozzi, Marco Montagner and Angela Gritti

- 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 del 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” and “Compagnia dei Vinattieri”**

Feb 20th, 2026, 3rd Day

Morning

9:00-10:20 : Plenary Session 2 - *Degenerative diseases and response to injury*

Chairmen: *Maria Grano and Valeria Sogos*

- 9:00 Carolina Pellegrini - University of Pisa
Gut barrier alterations and enteric nlrp3 inflammasome activation in early and premotor Parkinson's disease
- 9:20 Ylenia Della Rocca – Link Campus University
Dopaminergic differentiation from the novel pluripotent cell line hGMSCs-derived iPS: a new tool for personalized regenerative medicine
- 09:40 Matteo Giovarelli - University of Milan
Enhancing micro-dystrophin gene therapy for Duchenne Muscular Dystrophy (DMD): the role of Sirtuin1-activating compound SRT2104
- 10:00 Daniela Rossi - University of Siena
Loss of CCDC78 impairs body weight and muscle force in a knockout mouse model

10:20-10:40 Coffee Break

10:40-12:00: Plenary Session 3 - *Cancer progression and therapy*

Chairmen: *Mattia Lauriola and Livio Trusolino*

- 10:40 Barbara Peruzzi - Università Cattolica del Sacro Cuore
New insights in studying bone mechanopathology
- 11:00 Saverio Marchi - Università Politecnica delle Marche
Exploring the interplay between lipid droplets and mitochondria in cancer progression
- 11:20 Sandra Marmioli - University of Modena and Reggio Emilia
Capivasertib and Prostate Cancer Targeting: Unraveling Resistance Elements
- 11.40 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

12:00 Closing and Thanks

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

Participation certificates will be sent by email to all attendees