



SIAI
Società Italiana
di Anatomia e Istologia

77° Congresso della Società Italiana di Anatomia e Istologia

Genova, 12-14 Settembre 2024

Programma

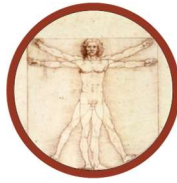
12 Settembre 2024

Sala del Maggior Consiglio - Palazzo Ducale

12:00	Riunione Collegio dei docenti di Anatomia Umana
<i>Pranzo libero</i>	
14:00	Riunione del Consiglio Direttivo SIAI
15:00	Apertura segreteria – Registrazione dei partecipanti
16:00 - 16:30	Cerimonia inaugurale e saluto delle autorità
16:45 - 17:30	Lettura magistrale - <i>Morpho-functional organization of the lymphoid follicle</i> Prof. Claudio Tripodo (Università degli Studi di Palermo)
17:45 - 18:30	Lettura magistrale - <i>Cells of immune system: from molecular mechanisms to clinical applications</i> Prof. Daniel Olive (Università di Marsiglia, Francia)

Le Cisterne del Ducale

19:00	Apericena di benvenuto
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13 Settembre 2024
Albergo dei Poveri – Università di Genova

Primo piano
8:00

Apertura segreteria – Registrazione dei partecipanti

Primo piano
8:30 - 13:30

Sessione poster I

Aula Magna
9:00 - 11:00

Sistema immunitario e sue modalità di organizzazione morfo-funzionale: dai meccanismi molecolari alle applicazioni terapeutiche

9:00

Marchi Saverio: *ER-mitochondria association negatively affects wound healing by regulating NLRP3 activation*

9:10

Greppi Marco *PD-1⁺ NK cell subset: a phenotypic and molecular characterization in healthy and pathological conditions*

9:20

Serafin Valentina: *NFATc1 regulates cell signaling and mitochondria functionality through the modulation of intracellular cholesterol abundance*

9:30

Guerra Emanuela: *Phylogenetic and tissue expression pattern conservation of Trop-2 across species support preclinical modeling of anti-Trop-2 antibody therapy*

9:40

Falletta Paola: *Integrated stress response shapes the immune and metabolic landscape of triple-negative breast cancer*

9:50

Miller Anthea: *Involvement of rat intestinal mucosal cells in inflammation caused by lipopolysaccharides (LPS)*

10:00

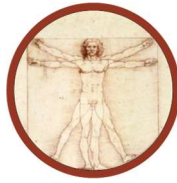
Romani Arianna: *ACE2 up-regulation by MDM2 inhibition reduces inflammation and monocytes adhesion in HUVEC*

10:10

Bellito Vincenzo: *Probiotic supplementation improves colonic wall morphology and gut microbiota community in a murine model of colitis*

10:20

Tamborrino Tiziana: *Intranodular follicle-associated epithelium in rabbit Peyer's Patches*



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10:30 Di Sante Gabriele: *Altered miRNome impacts on immune responses, inflammatory processes and tissue repair in children affected by Long Covid*

10:40 Tagliatti Erica: *Trastuzumab-deruxtecan in HER2⁺ breast cancer cells: complex subcellular mechanisms and immune microenvironment interactions*

Aula 3

9:00 - 11:00

Neuroscienze e neuromorfologia (GISN)

9:00 Calogero Alessandra Maria: *Acetylated α -Tubulin in post-mortem human brain: region-specific changes in Parkinson's disease patients*

9:10 Boido Marina: *Drug repositioning as a therapeutic strategy for Spinal Muscular Atrophy treatment*

9:20 Branca Jacopo JV: *Cadmium-induced neuroinflammatory cytokines impairs BBB permeability by altering tight junction morphological localization.*

9:30 Cacciola Alberto: *Structural and functional connectivity predicts MRgFUS thalamotomy outcome in Parkinson's disease*

9:40 De Luca Ciro: *Cellular and extracellular plasticity at the spinal neurovascular interface following nerve injury*

9:50 Errede Mariella: *The role of primary cilia in human cerebral cortex development and vascularization*

10:00 Lenzi Paola: *Effect of 1-methyl, 4-phenylpyridinium (MPP⁺) on SN56 cholinergic cell line*

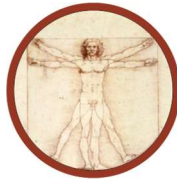
10:10 Meregalli Cristina: *Novel insights into neuroinflammatory changes and immune biomarkers associated with chemotherapy-induced peripheral neurotoxicity*

10:20 Pellegrini Carolina: *Prokineticin-2 is highly expressed in colonic mucosa of early Parkinson's disease patients*

10:30 Schellino Roberta: *Time-dependent characterization of cortical projection neuron's alterations and development in a murine model of Spinal Muscular Atrophy*

10:40 Virtuoso Assunta: *Glioblastoma Connections within the human neuro-glial network: friends and foes*

10:50 Galgani Alessandro: *Locus Coeruleus sexual dimorphism and its impact on cognitive impairment and cortical atrophy in Alzheimer's Disease*



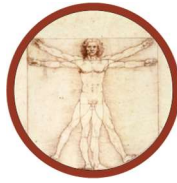
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Aula 4

9:00 - 11:00

Modelli 3D e organoidi, ingegneria tissutale e medicina rigenerativa

- 9:00 Mancuso Francesca: *Development of three-dimensional composite scaffolds for in vitro testicular organoid growth.*
- 9:10 Papaccio Federica: *Mitochondrial transfer from adipose stem cells to breast cancer patient derived organoids*
- 9:20 Ricci Stefania: *3D human epidermal model in vitro to assess the effects of Boron Neutron Capture Therapy on keratinocyte proliferation*
- 9:30 Boschetti Elisa: *Spatial Transcriptomics: Bridging anatomy and molecular techniques for precision medicine in rare diseases*
- 9:40 Luca Tonia: *Development of a technological platform for the study and use of normal and tumour patient-derived colon organoids*
- 9:50 Casarella Simona *Identification of laminin-binding oligopeptides guiding cardiac differentiation*
- 10:00 Greco Stefania: *Morphological and ultrastructural characterization of 3D spheroids of leiomyosarcoma*
- 10:10 Barbon Silvia *Bio-hybrid scaffolds based on polyvinyl alcohol and decellularized human cartilage for the recovery of articular focal lesions in haemophilic patients*
- 10:20 Bria Jessica: *Differential behavior of gingival fibroblasts, endothelial cells and periodontal ligament stem cells on implant abutment: a comparison of surface topographies and treatments*
- 10:30 Romano Veronica: *In vitro maturation and structural enhancement of three-dimensional cardiac bioconstructs via physiological mechanical stimulation*
- 10:40 Ceccarelli Gabriele: *Integrated design based on 3D Bioprinting and Bioreactor for skeletal muscle tissue engineering*
- 10:50 Arnaldi Pietro: *A NSC-34 cell line-derived spheroid model: potential and challenges for in vitro evaluation of neurodegeneration*
- 11:00 - 11:30 *Coffee break*



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Aula Magna

11:30 - 12:45

Istogenesi, funzioni e disfunzioni del sistema muscolo-scheletrico

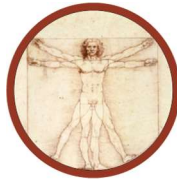
- 11:30 Chiappalupi Sara: *RAGE engagement at myofiber level plays a determinant role in cancer-induced muscle wasting*
- 11:40 Fulceri Federica: *Novel insights into the extracorporeal shock wave therapy in musculoskeletal disorders*
- 11:50 Pirri Carmelo: *Myofascial junction: Emerging insights into the connection between deep/muscular fascia and muscle*
- 12:00 Centofanti Antonio: *The sarcoglycan subcomplex in chondrocytes: an in vitro study*
- 12:10 Fazio Antonietta: *Pericyte dysfunction in collagen VI-related myopathies: Implications of collagen VI-NG2 binding*
- 12:20 Evangelisti Camilla: *Effects of mechanical stress on signaling pathways and LINC complex in skeletal muscle cells from young and old subjects*
- 12:30 Salucci Sara: *Anticancer effect of Omomyc peptide on cellular models of human osteosarcoma*

Aula 3

11:30 - 12:45

Invecchiamento e patologie degenerative

- 11:30 Bianchi Francesca: *High fiber diet to counteract early signs of heart damages: an ultrastructural morphological study to beating dysbiosis effects*
- 11:40 D'Antongiovanni Vanessa: *LRRK2 at the crossroads between intestinal epithelial barrier alterations and enteric gliotic processes in Parkinson's disease*
- 11:50 Mattii Letizia: *Expression of Cx26 on human cardiac-derived and plasma extracellular vesicles and its possible role in miRNAs's loading*
- 12:00 Barone Virginia: *Unveiling a role for Mitogen Activated Protein Kinase 15 in hepatic steatosis*
- 12:10 Emmi Aron: *Alpha-Synuclein pathology in the Enteric Nervous System is a promising biomarker for Parkinson's Disease*
- 12:20 Lucchetti Francesca: *New insights into the role of Secosterol-B in human endothelial cell dysfunction*



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12:30 Varfaj Ina: *Choko-age project: in vitro bioactivity evaluation of a new Vitamin E-funzionalized chocolate product*

12:40 Ferrucci Michela: *Poly-ubiquitin and p62 exceed the increase of alpha-synuclein during degeneration of catecholamine cells induced by methamphetamine*

Aula 4

11:30 - 12:45

Tessuti epiteliali: transizione epitelio-mesenchima nell'organogenesi e nella carcinogenesi

11:30 Zavatti Manuela: *A novel mechanism of adaptive resistance to AKT targeting in a mouse xenograft model of prostate cancer*

11:40 Grassilli Silvia: *Subtype-dependent down-modulation of Akt signaling induced by garlic in breast tumor cells with a triple negative phenotype*

11:50 Cordenonsi Michelangelo: *Unraveling the relationships between tumor cells and their microenvironment using high-resolution spatial transcriptomics*

12:00 Meucci Martina: *A role for TPC2 endolysosomal/melanosomal channel in malignant melanoma progression*

12:10 Carpino Guido: *Cholangiocarcinoma subtypes imply morphological differences in ducts of origin and are characterized by specific features at spatial molecular analysis*

12:20 Versari Ilaria: *Potential role of nuclear Phospholipase C beta 1 as a predictive biomarker in lung cancer*

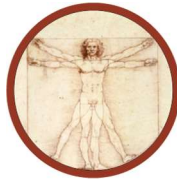
12:30 Lombardo Claudia: *Immunohistochemical expression of novel biomarkers in Fluoro-Edenite-Induced Malignant Mesothelioma: A Preliminary Study*

12:45 - 14:30 Lunch

Primo piano

13:30 - 18:30

Sessione poster II



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Aula Magna

14:30 – 16:00

Innovazione nelle strategie didattiche e tecnologie multimediali: presente e futuro

14:30

Wolters Kluwer: *Human anatomy digital solutions*

14:45

Anatomage: *An Interactive 3D Anatomy & Physiology Learning Approach Through Virtual Dissection*

15:00

Hitachi: *Title to be defined*

15:10

Neri Irene: *Using augmented reality to enhance anatomical education: the AeducAR 2.0 experience*

15:20

Nicolin Vanessa: *Innovation and tradition: synergies between digital teaching and anatomical dissection in medical education*

15:30

Alberti Paola: *3D Digital tools in human anatomy teaching from peer-to-peer tutoring to clinically oriented approaches: a single center experience*

15:40

Saverino Daniele: *The Anatomia Universa (1823) of Paolo Mascagni (1755-1815): the memory of a masterpiece in the history of anatomy and a modern approach to medical education*

15:50

Caggiati Alberto: *The Hidden Danger: Rethinking Visceral Adipose Tissue in Anatomical Education*

Aula 3

14:30 – 16:00

Cellule staminali, istogenesi e differenziamento

14:30

Della Rocca Ylenia: *Autologous cardiomyocytes from differentiating hGMSCs-derived iPS: a new proposal for cardiac regeneration.*

14:40

Di Tinco Rosanna: *IL-6 drives PD-L1-mediated immunomodulatory properties of human dental pulp stromal cells and synovial fibroblasts*

14:50

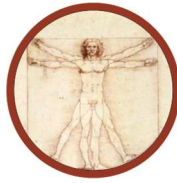
Ceneri Eleonora: *Leukemic cells adherence to mesenchymal stromal cells: a new mechanism for stem cell differentiation in hematopoietic cells?*

15:00

Di Martino Orsola: *RXRA signaling induces terminal differentiation and apoptosis in Acute Myeloid Leukemia*

15:10

Zucchi Alice: *Prenatal overactivation of cannabinoid receptor CB2 affects offspring male germ cells development via epigenetic mechanisms*



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15:20 Overi Diletta: *Morphological modifications of portal tracts and hepatic sinusoids in people with porto-sinusoidal vascular disorder.*

15:30 Palmerini Maria Grazia: *Ultrastructural study on the effects of menstrual blood-derived stem cells and exosomes on ovarian folliculogenesis in PCOS rats*

15:40 Parigi Martina: *Red photobiomodulation promotes skeletal myoblast differentiation and counteracts TGF- β 1 anti-myogenic effects in vitro: evidence from morpho-functional analyses*

Aula 4

14:30 – 16:00

Tessuti connettivi

14:30 Limanaqi Fiona: *Alpha-synuclein induces subcellular and morphological alterations in human monocyte-derived macrophages*

14:40 Giordano Chiara: *Anti-CD94-induced expansion of highly functional adaptive NKG2C⁺ NKG2A⁻ CD57⁺ selfKIR⁺ NK cells from CMV-seropositive healthy donors*

14:50 Marinucci Lorella: *DNA damage and cell death in human oral squamous cell carcinoma cells: the potential biological effects of cannabidiol*

15:00 Di Agostino Silvia: *Che-1/miR-590-3p/TAZ axis sustains multiple myeloma*

15:10 Ceci Ludovica: *Role of period circadian protein 1 (PER1) in the determination of gender differences during cholestatic diseases.*

15:20 Sommariva Michele: *Cancer-associated microbiota contributes to tumor fibrosis by modulating fibroblast activity*

15:30 Labellarte Davide: *Sarcoglycan sub-complex in MC3T3 cells seeded onto Titanium substrates*

15:40 Raspanti Mario: *The cartilage-bone interplay: structural biology of the temporo-mandibular joint*

16:00 - 16:30 *Coffee break*



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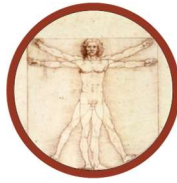
Aula Magna
16:30 – 18:30

Assemblea dei Soci SIAI

Acquario di Genova

20:30

Cena sociale con momento musicale “Napo canta De Andrè”



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14 Settembre 2024
Dipartimento di Economia – Università di Genova

Aula Arsenale
9:00 – 10:00

Riunione della Società Italiana di Istochimica

Aula Lanterna
9:30 - 11:00

Sistema neuro-muscolo-scheletrico in attività motorie e sportive

9:30

Roggio Federico: *Analyzing anatomical differences in human posture using machine learning: applicability and reliability*

9:40

Trovato Bruno: *Biomechanical alteration of gait and temperature evaluation of the knee in people with osteoarthritis: a pilot study*

9:50

Gallorini Marialucìa: *In vivo identification of novel inflammation-related biomarkers on human tendons*

10:00

Pirri Carmelo: *Ultrasound imaging in football players with previous Multiple Ankle Sprains: keeping a close eye on Superior Ankle Retinaculum*

10:10

De Blasiis Paolo: *Vision and posture: effects of visual target distance on postural stability and plantar pressure distribution*

10:20

De Girolamo Ciro Ivan: *Vertical jump performance influenced by auditory and visual system*

Aula Portovecchio
9:30 - 11:00

Anatomia clinica e forense, promozione dell'attività settoria e suo ruolo in ambito didattico

9:30

Pacca Paolo: *“Live Cadaver” model for internal carotid artery injury simulation in endoscopic endonasal skull base surgery*

9:40

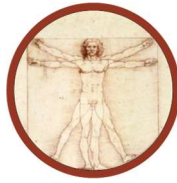
Gibelli Daniele: *Can frequencies of cranial non-metric traits be used for personal identification? Application to a real case of humanitarian forensic anthropology*

9:50

Macchi Veronica: *Life stories: anamnestic form of the corpse/patient compiled by medical students during the anatomical-clinical simulation laboratory*

10:00

Ratti Stefano: *Advancing Anatomical-medical training: implementing reventilation and revascularization technologies in body donor simulations*



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- 10:10 Galvani Andrea: *Importance of training for emergency medicine physician and critical care nurses in life-saving procedures using donor labs: the experience of the High-Tech Anatomical Center at the University of Bologna*
- 10:20 Zecca Piero Antonio: *AI-driven predictive models for determining age and sex from cranial measurements*
- 10:30 Dolci Claudia: *Facial features in Cri-du-Chat syndrome: 3D morphometric analysis and possible genotype-phenotype correlations*
- 10:40 Boscolo-Berto Rafael: *A novel instrument for examining the vertebral artery: the transversoclasiotome*
- 10:50 Galassi Francesco Maria: *The antiquity of spina bifida: morphological and historical aspects of an evolution-related congenital anomaly*

Aula Embriaco
9:30 - 11:00

Neuroscienze

- 9:30 Relucenti Michela: *Chronic subdural hematoma: histochemical and ultrastructural study*
- 9:40 Pizzichini Elisa: *Unravelling the role of Schwann cell-cancer cell interplay in Hepatocellular carcinoma progression*
- 9:50 Armeli Federica: *Treatment with polyphenols and probiotics counteracts LPS-induced morphological and functional polarization of BV-2 microglia*
- 10:00 Marvi Maria Vittoria: *Targeting glioblastoma stem cells via Prelamin A accumulation and ROS-induced DNA damage*
- 10:10 Sette Claudio: *Cognitive impairment is associated with early transcriptome changes in a mouse model of multiple sclerosis*
- 10:20 Saverino Daniele: *A potential marker for anorexia nervosa: exploring the role of SIRT1*
- 10:30 Vivacqua Giorgio: *Salivary biomarkers in Parkinson's Disease and Synucleinopathies*
- 11:00 - 11:30 *Coffee break*

Aula Embriaco
11:30 - 13:00

Premiazioni, conclusioni e saluti