



SIAI Società Italiana di
Anatomia e Istologia

78° Congresso Nazionale SIAI

SOCIETÀ ITALIANA DI ANATOMIA E ISTOLOGIA

Ravenna 18-20 Settembre 2025.

Presidente del Congresso: *Mirella Falconi Mazzotti*

Università di Bologna – Campus di Ravenna



Care/i colleghe/i,

È un grande piacere darvi il benvenuto a Ravenna in occasione del 78° Congresso Nazionale della Società Italiana di Anatomia e Istologia (SLAI) organizzato per ricordare i Professori Francesco Antonio Manzoli e Giovanni Mazzotti.

Un sentito ringraziamento va alla Città di Ravenna, che con la sua storia, il suo patrimonio culturale e la sua ospitalità rappresenta un contesto unico per il nostro incontro scientifico, e alla Fondazione Flaminia, che da anni sostiene con impegno e lungimiranza lo sviluppo della sede Universitaria Ravennate.

Il congresso si svolgerà presso il nuovo Polo Universitario, realizzato all'ospedale Santa Maria delle Croci per accogliere gli studenti del Corso di Laurea in Medicina e Chirurgia con l'obiettivo di favorire l'integrazione tra attività formative, di ricerca e assistenziali nel territorio Romagnolo.

Questo congresso riserva particolare attenzione alle nuove generazioni, che rappresentano il futuro dell'Istologia e dell'Anatomia. L'intera giornata di sabato è pensata per promuovere il confronto tra giovani ricercatori, stimolare il dialogo scientifico e offrire uno spazio dedicato alla presentazione e alla discussione dei contributi di tutti i partecipanti under 40, in un clima di valorizzazione e scambio reciproco.

Durante il congresso, la zona espositiva, situata nei locali dei laboratori didattici, sarà arricchita da un angolo caffè sempre accessibile, che offrirà un momento di convivialità, ma anche un'occasione per apprezzare i contributi delle sessioni poster, parte significativa del confronto scientifico.

Con l'auspicio che questo congresso sia un'occasione di arricchimento professionale e umano, auguro buon lavoro e un piacevole soggiorno nella città di Ravenna, luogo ricco di patrimoni artistici e culturali.

Mirella Falconi Mazzotti

CONSIGLIO DIRETTIVO DELLA SOCIETÀ ITALIANA DI ANATOMIA E ISTOLOGIA

Presidente	Lucio Ildebrando Maria Cocco
Segretario	Gigliola Sica
Tesoriere	Virginia Tirino

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Paolo Onori, Carla Palumbo, Alessandro Vercelli, Sandra Zecchi.

COMPONENTI DEL CONSIGLIO (per l'Istologia)

Michelangelo Cordenonsi, Antonio Filippini, Monica Mattioli Belmonte, Oriana Trubiani

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Mirella Falconi Mazzotti

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Sara Salucci
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COMITATO ORGANIZZATIVO

Antonietta Fazio
Valentina Gatta
Maria Vittoria Marvi
Donatella Romaniello

PROGRAMMA

Giovedì 18 Settembre

In ricordo dei Professori Francesco Antonio Manzoli e Giovanni Mazzotti

Antichi Chiostri Danteschi – Sala multimediale

14:30-15:50 Riunione del consiglio Direttivo della società Italiana di Anatomia e Istologia

Teatro Dante Alighieri

16:00 Saluti delle autorità

16:30 Dr. Franco Gabici, *giornalista, scrittore*
Ravenna curiosa

17:00 Prof. Marco Dugato, *Professore Ordinario di Diritto Amministrativo*
Università di Bologna
Opportunità e criticità nel nuovo sistema di reclutamento universitario

17:30 Dr. Cav. Lav. Antonio Patuelli, *Presidente Gruppo la Cassa, Presidente ABI.*
Ricordo dei Professori Francesco Antonio Manzoli e Giovanni Mazzotti

18:00 Cocktail di benvenuto

Venerdì 19 Settembre

Ospedale Santa Maria delle Croci, sede del Corso di Laurea in Medicina e Chirurgia

8:00-9.00 Registrazione dei partecipanti

9.00-10.30 LETTURA MAGISTRALE

What is Life?

*Sir Paul Nurse, Premio Nobel 2001 per la Medicina,
The Francis Crick Institute (UK)*

10.30-12.00 PRIMA SESSIONE DI COMUNICAZIONI

Aula Magna O. Triossi	Anatomia e fisiopatologia del sistema gastrointestinale
Aula P. Scorza	Metabolismo, tessuto adiposo, sistema endocrino e patologie correlate
Aula 1	Istogenesi, funzioni e patologie del sistema muscolo-scheletrico
Aula 2	Anatomia e patologia del distretto odontoiatrico
Aula 3	Neuroscienze

COLLEGIO DOCENTI DI ANATOMIA

12.00-13.00 Aula Magna O. Triossi

LUNCH 13.00-14.30

14.30-16.30 SECONDA SESSIONE DI COMUNICAZIONI

Aula Magna O. Triossi	Meccanismi cellulari e molecolari nella trasformazione neoplastica
Aula P. Scorza	Anatomia settoria, anatomia clinica e forense
Aula 1	Invecchiamento e patologie degenerative
Aula 2	Modelli 3D, organoidi, scaffold biologici, rigenerazione tissutale
Aula 3	Neuroscienze e neuromorfologia (GISN)

SESSIONE POSTER presso i laboratori didattici

10.30-12.00 SESSIONE 1

14.30-16.00 SESSIONE 2

ASSEMBLEA GENERALE DEI SOCI SIAI

16.30-18.00 Aula 3

CENA SOCIALE

20:00 Mercato Coperto
Piazza Andrea Costa 2 - 48121 Ravenna

Sabato 20 Settembre

Ospedale Santa Maria delle Croci, sede del Corso di Laurea in Medicina e Chirurgia

9.00-10.30 LETTURA MAGISTRALE

Minimally invasive strategies for modulating congenital malformations in utero

Bruna Corradetti, PhD MSc Baylor College of Medicine, Houston, TX, USA

10.30-12.00 SESSIONE GIOVANI

Aula Magna O. Triossi Giovani 1

Aula P. Scorza Giovani 2

Aula 1 Giovani 3

Aula 2 Giovani 4

Aula 3 Giovani 5

SESSIONE POSTER *presso i laboratori didattici*

10.30-12.00 SESSIONE 3

CONCLUSIONI E PREMIAZIONI SIAI

12.15-13.00 AULA 3

LUNCH 13.00-14.00

PROGRAMMA SCIENTIFICO

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moderatori: *Lucio I. M. Cocco, Michelangelo Cordenonsi, Eugenio Gaudio, Gigliola Sica*

What is Life?

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10.30-12.00 PRIMA SESSIONE

Aula Magna O. Triossi

Anatomia e fisiopatologia del sistema gastrointestinale

moderatori: *Nunzia Bernardini, Eugenio Bertelli, Paolo Onori, Simona Pergolizzi*

10:30 Early Parkinson's disease and REM sleep behaviour disorder show gut barrier impairments, NLRP3 inflammasome activation, and enteric alpha-synuclein accumulation
Pellegrini Carolina, Bellini Gabriele, Pierucci Clarissa, D'Antongiovanni Vanessa, Segnani Cristina, Ippolito Chiara, Hoxhaj Domeniko, Maestri Michelangelo, Rettura Francesco, Ceravolo Roberto, Bellini Massimo, Derkinderen Pasca, Bernardini Nunzia

10:40 Unveiling microvascular and extracellular matrix abnormalities in chronic intestinal pseudo-obstruction
Elisa Boschetti, Irene Neri, Santino Blando, Leonardo Caporali, Elena Bonora, Antonietta Fazio, Sara Mongiorgi, Carolina Malagelada, Valerio Carelli, Roberto De Giorgio, Mirella Falconi, Stefano Ratti, Lucia Manzoli

10:50 Intestinal inflammation and ketogenic diet: the combined role of β -hydroxybutyrate and mct oil on CACO-2 cells
Maria Ida De Stefano, Antonietta Monda, Chiara Porro, Francesca Martina Filannino, Federico Zoila, Vincenzo Monda, Antonietta Messina, Marcellino Monda, Emanuele Capasso, Mario Chisari, Lucio Di Mauro, Rita Polito, Giovanni Messina

11:00 Spatial transcriptomics as an innovative approach for the molecular characterization of stem/progenitor cell niches in the hepato-biliary- pancreatic system
Guido Carpino, Diletta Overi, Stefano Leone, Vincenzo Cardinale, Domenico Alvaro, Paolo Onori, Antonio Franchitto, Eugenio Gaudio

11:10 Alpha-synuclein pathology of the peripheral nervous system in Parkinson's disease: is it a systemic disease?
Aron Emmi, Marta Campagnolo, Aleksandar Tushevski, Francesco Paolo Russo, Miryam Carecchio, Veronica Macchi, Raffaele De Caro, Piero Parchi, Angelo Antonini, Andrea Porzionato

11:20 Dissecting integrated stress response-driven metastatic potential and drug resistance in colorectal cancer
Leone Martina, Botrugno Oronzina, Bruno Jolanda, Colombo Emanuele, Sabani Besmira, Lehmann Steffi, Tonon Giovanni, Tacchetti Carlo and Falletta Paola

11:30 Discussione

Aula P. Scorza

Metabolismo, tessuto adiposo, sistema endocrino e patologie correlate

moderatori: *Susanna Dolci, Giuseppe Familiari, Antonio Giordano, Mario Rende*

- 10:30 Investigating the role of sarcoglycan subunits in adipocyte structure and protein expression via siRNA-mediated silencing
Davide Labellarte, Alba Migliorato, Angelo Favaloro, Ilenia Papaleo, Giuseppe Pio Anastasi
- 10:40 Pde5a loss rearranges mouse bone marrow vasculature and increases bone marrow adiposity
Biagio Palmisano, Chiara Tavanti, Giorgia Farinacci, Maria Materozzi, Alessandro Corsi, Francesca Gioia Klinger, Mary Anna Venneri, Mara Riminucci, Andrea M. Isidori, Federica Campolo
- 10:50 Lipidomic changes and oxidative stress in Cushing's syndrome: insights into disease mechanisms and therapeutic strategies
Anna Migni, Ina Varfaj, Alberto Falorni, Mario Rende, Elisabetta Chiaradia, Francesco Galli, Desirée Bartolini
- 11:00 The effects of exposure to endocrine disruptors during pregnancy
Elena Ricci, Emily Guarini, Marilena Marraudino, Stefano Gotti
- 11:10 Targeting diabetic keratopathy: evaluation of dECM hydrogel on organotypic corneal epithelium
Maugeri Grazia, D'amico Agata Grazia, Nicoletta Palmeri, Antonio Longo, Davide Scollo, Simona Casarella, Francesca Boccafroschi, D'Agata Velia
- 11:20 Role of phosphodiesterase type 5 in murine aortic development
Ambra Colopi, Eugenia Guida, Federica Campolo, Emmanuele A. Jannini, Susanna Dolci
- 11:30 New perspectives in the pathogenesis of human visceral fat fibrosis
Tonia Luca, Salvatore Pezzino, Sergio Castorina, Saverio Cinti
- 11:40 Discussione

Aula 1

Istogenesi, funzioni e patologie del sistema muscolo-scheletrico

moderatori: *Marco Gesi, Germano Guerra, Mario Raspanti, Sandra Zecchi*

- 10:30 Le differenti diete modulano diversamente la salute ossea: modelli murini
Donatella Mentino, Alessia Annicchiarico, Alessia Provera, Alessandro Antonioli, Vesa-Matti Leino, Salvatore Sutti, Flavia Prodam, Heikki Suhonen, Grazia Paola Nicchia, Maria Mastrodonato, Maria Felicia Faienza, Giacomina Brunetti
- 10:40 Extracorporeal shockwave therapy-induced myogenesis in C2C12 cells is accompanied by mitochondrial biogenesis: an ultrastructural study
Federica Fulceri, Larisa Ryskalin, Paola Soldani, Maria Cristina D'Agostino, Gabriele Morucci, Stefania Moscato, Marco Gesi
- 10:50 Desmin acts as a new and early anabolic signal for skeletogenic progenitors in response to Akt-dependent inhibition of GSK3b by myo-inositol: a bioinformatic, morpho-functional, and translational study
F. P. Quartulli, G. Di Conza, F. Barbaro, Y. Gzara, F. Ariodante, E. Gabusi, G. Lisignoli, S. Mosca, M. Mosca, S. Sprio, A. Tampieri, R. Toni
- 11:00 The calcifying turkey tendon: not just mineralized collagen fibrils
Mario Raspanti, Marina Borgese, Piero Antonio Zecca, Marta Filibian, Roberta Gioia, Marina Protasoni, Marcella Reguzzoni
- 11:10 Foot placement in upright posture during stabilometric exam: anthropometric and stabilometric correlations

11:20 Discussione

Aula 2

Anatomia e patologia del distretto odontoiatrico

moderatori: *Claudia Dellavia, Elena Donetti, Rita Rezzani, Giuseppina Rizzo*

10:30 Micro- and nanoplastic release from orthodontic appliances: quantitative characterisation of 3D-printed vs thermoformed devices

Piero Antonio Zecca, Marina Borgese, Andrea Brambilla, Andrea Carganico, Petra Basso, Mario Raspanti

10:40 Micro- and nanoplastic release from orthodontic aligners: in-vivo inflammatory and oxidative responses in a *Hirudo verbana* model

Marina Borgese, Petra Basso, Mario Raspanti, Andrea Brambilla, Marcella Reguzzoni, Marina Protasoni

10:50 Micro and nanoplastic release from orthodontic appliance: in vitro cytotoxicity on human dental pulp stem cells

Andrea Carganico, Petra Basso, Andrea Brambilla, Mario Raspanti, Marcella Reguzzoni, Marina Borgese

11:00 In vitro cytotoxic effects after exposure switching of alternative smoking devices (IQOS and electronic cigarette) in oral human cells

Lorella Marinucci, Stefania Balloni, Chiara Valenti, Stefano Bruscoli, Stefano Pagano

11:10 In vitro evaluation of the neuroprotective effect of natural bioactives, garcinoic acid and genistein, targeting nuclear receptor pathways administered via the nose-to-brain delivery system

Ina Varfaj, Gabriele Di Sante, Anna Maria Stabile, Anna Migni, Gina Cavaliere, Alessandra Pistilli, Vincenzo Falcone, Bruno Cerra, Giovanna Traina, Aurélie M. Schoubben, Antimo Gioiello, Andrea Temperini, Roccaldo Sardella, Claudia Zadra, Francesco Galli, Mario Rende, Desirée Bartolini

11:20 New insights into the morphological aspects of unilateral condylar hyperplasia

Fabiana Nicita, Alba Migliorato, Antonio Centofanti, Giuseppe Pio Anastasi, Ludovico Magaudo, Michele Runci Anastasi

11:30 Discussione

Aula 3

Neuroscienze

moderatori: *Tiziana Borsello, Simona Casarosa, Guido Cavaletti,*

10:30 Temporal dynamic characterization of vascular network in the peripheral and central nervous system of rats with paclitaxel-induced painful peripheral neuropathy

Antonio Giuliano Zippo, Chiara D'aprile, Alessandro Sacchini, Annalisa Canta, Eleonora Pozzi, Alessia Chiorazzi, Virginia Rodriguez-Menendez, Elisa Ballarini, Erika Donà, Giuliana Tromba, Rocco Piazza, Deborah D'Aliberti, Daniele Ramazzotti, Paola Alberti, Cristina Meregalli, Laura Cherchi, Guido Cavaletti, Valentina Alda Carozzi

10:40 Maternal neuroendocrine system adaptation during and after childbirth

Cristina Cocco, Barbara Noli, Antonio Manai, Fabrizio Sanna, Roberta Fadda, Sara Congiu, Cristina Sechi, Laura Vismara

10:50 Neuroprotective effect of amantadine in the early model of 6-OHDA-induced parkinsonism in rats

Francesco De Nuccio, Dario Domenico Lofrumento, Marianna Kashyrina, Antonia Cianciulli, Melania Ruggiero, Giuseppe Nicolardi

11:00 Autophagy is involved in the differentiation of SH-SY5Y cells induced by retinoic acid

- 11:10 Morpho-functional and neuroinflammatory adaptations of the superior colliculus in the MPTP model of Parkinson's disease
Giovanna Vermiglio, Demetrio Milardi, Rocco Briganti, Giovanni Cirillo, Antimo Buonocore, Carlo Cavaliere, Emanuela Rizzuto, Giovanni Pallio, Giuseppe Anastasi
- 11:20 Liposome-loaded Nutlin-3a as a potential candidate for the treatment of proliferative vitreoretinal diseases
Elisabetta Melloni, Elena Pozza, Francesca Bompan, Valentyn Dzyhovskyi, Enrico Zauli, Maurizio Previati, Paola Secchiero, Elisabetta Esposito, Giorgio Zauli
- 11:30 Ex-vivo mapping of nigro-thalamic dopaminergic terminals reveals regional specialization and synaptic markers in the human thalamus
Giovanni Cirillo, Marco Montella, Elvira La Mantia, Ilaria Tedesco, Ciro De Luca, Assunta Virtuoso, Flavio De Angelis, Luca Riccio, Fabrizio Esposito, Mario Cirillo, Renato Franco, Michele Papa
- 11:40 Discussione

COLLEGIO DOCENTI DI ANATOMIA

12.00-13.00 Aula Magna O. Triossi

LUNCH 13.00-14.30

14.30-16.30 SECONDA SESSIONE

Aula Magna O. Triossi

Meccanismi cellulari e molecolari nella trasformazione neoplastica

moderatori: *Franco Fais, Antonio Filippini, Carla Loreto, Carlo Tacchetti*

- 14:30 Basal Cell Adhesion Molecule (BCAM): a possible therapeutic target in prostate cancer
Giovanni Tossetta, Sonia Fantone, Roberta Mazzucchelli, Daniela Marzioni
- 13:40 Ultrastructural characterization of radiotherapy-induced tissue damage in preclinical murine model
Emanuela Guerra, Stefano Lattanzio, Valentina Giansante, Giulia Furini, Gaia Scabia, Eduarda Mota-Silva, Margherita Maffei, Saverio Cinti, Roberta Di Pietro
- 14:50 Immunohistochemical expression of stathmin in asbestiform fibers induced malignant mesothelioma
Claudia Lombardo, Rosario Caltabiano, Sergio Castorina, Carla Loreto
- 15:00 Antitumor effects of Moringa oleifera on in vitro cultures of PC3 prostate cancer cells
Francesca Mancuso, Cinzia Lilli, Catia Bellucci, Veronica Ceccarelli, Ludovica Pugliese, Margherita Cecchetti, Anna Maria Stabile, Cristiana Gambelunghie, Tiziano Baroni
- 15:10 ERBB2 signaling and organelle remodeling drive cellular and immune responses to trastuzumab-deruxtecan in HER2/ERBB2+ breast cancer cells
Erica Tagliatti, Maria Cristina Gagliani, Grazia Bellese, Pietro Arnaldi, Martina Crippa, Andrea Abbona, Matteo Paccagnella, Manuela Sollazzo, Marco Carlo Merlano, Ornella Garrone, Annamaria Porcelli, Michela Matteoli, Paola Falletta, Patrizio Castagnola, Katia Cortese

- 15:20 T- and preB-ALL cells respond to the synergistic combination of Hedgehog and PI3K/AKT/mTOR inhibitors and shares autophagic response
Mariaconcetta Sicurella; Marica De Chiara; Elena Battaglia; Federica Franco; Marisa De Vita; Carolina Simioni; Luca Maria Neri
- 15:30 The niche megakaryocytes are the phenotypical target to track the changes in the Myelofibrotic bone marrow niche
Francesca Arciprete, Viola Velardi, Giorgio Vivacqua, Rosalba Rana, Anna Rita Migliaccio, Alessandro Maria Vannucchi, Maria Zingariello
- 15:40 Aberrant CCR2 expression in hematopoietic stem cells and megakaryocytes is associated with GATA-1 deficiency in myelofibrosis
Giulia Pozzi, Orsola di Martino, Francesca Arciprete, Samuele Cortellazzi, Viola Velardi, Livia Micaela Pasini, Cristina Micheloni, Giuliana Gobbi, Prisco Mirandola, Marco Vitale, Cecilia Carubbi, Maria Zingariello, Elena Masselli
- 15:50 Targeting IRE1 α -XBP1s pathway to enhance cell death in acute myeloid leukemia blas
Orsola di Martino, Giulia Pozzi, Samuele Cortellazzi, Prisco Mirandola, Giuliana Gobbi, Stephen M Sykes, Francesca Ferraro, Marco Vitale, Elena Masselli, Cecilia Carubbi
- 16:00 Blackthorn juice selectively targets gastric cancer cells: a morpho-functional study
Salucci S., Versari L., Burattini S., Osman R., Micucci M., Battistelli M., Faenza I.
- 16:10 Discussione

Aula P. Scorza

Anatomia settoria. Anatomia clinica e forense

moderatori: *Sergio Castorina, Raffaele De Caro, Andrea Montella*

- 14:30 Andrea Cesalpino in the fifth centenary of his birth
Gianfranco Natale, Paola Lenzi, Stefano Bertozzi, Riccardo Ruffoli
- 14:40 Preliminary study on needle/fascicle mechanical interaction in sciatic nerve iatrogenic transfixion using the TruePass® technique
Rafael Boscolo-Berto, Veronica Macchi, Aron Emmi, Elena Stocco, Silvia Barbon, Martina Contran, Valentina Manzo, Andrea Porzionato, Raffaele De Caro
- 14:50 Geographic variability of anatomical variants of the cranium: are there differences in prevalence between northern and southern Italy?
Daniele Gibelli, Andrea Palamenghi, Sofia Alemanno, Giulia Caccia, Antonio Jose Aragon Molina, Annalisa Cappella, Michaela Cellina, Salvatore Cappabianca, Alfonso Reginelli, Ferdinando Caranci, Ruggero Donida Labati, Fabio Scotti, Vincenzo Piuri, Carlo Pietro Campobasso, Danilo De Angelis
- 15:00 A curvilinear pattern-based method for investigating auricular uniqueness in personal identification
Annalisa Cappella, Alice Alderighi, Riccardo Solazzo, Debora Mazzarelli, Daniele Gibelli, Claudia Dolci, Cristina Cattaneo, Chiarella Sforza
- 15:10 From textbooks to cadavers: the impact of the Mazzotti anatomy conference on anatomy education of italian medical students
Mary Ida Hurley, Giulia Demo, Marion Pace Olivieri
- 15:20 Ultrasound-guided core needle biopsy of deep fascia: A cadaveric study evaluating feasibility, accuracy and reliability
Pirri Carmelo, Zabotti Alen, Pirri Nina, Petrelli Lucia, Giovannini Ivan, Macchi Veronica, Porzionato Andrea, Quartuccio Luca, De Caro Raffaele, De Vita Salvatore, Stecco Carla

- 15:30 The integration of neurosurgery and bioengineering with neuroanatomy in the High Technology degree course in medicine and surgery at Sapienza University of Rome: knowledge acquired and perception of effectiveness by medical students
Pietro Familiari, Michela Relucanti, Selenia Miglietta, Giuseppe Familiari, Stefania Basili, Alessandro Frati, Antonio Santoro
- 15:40 Unveiling the anatomical machines of the Sansevero chapel: a clinical anatomy perspective and a multidisciplinary investigation through digital twins of structure, technique, and paleopathology
Veronica Papa, Silvio del Pizzo, Elena Varotto, Fabiana di Ciaccio, Mauro Vaccarezza, Salvatore Troisi, Francesco M. Galassi
- 15:50 Microscopic modification in cremated bones: a case report from the roman necropolis of Monte Carru (Alghero-Italy)
Rita Maria Serra, Alessandra La Fragola, Gabriella Gasperetti, Maria Alessandra Sotgiu, Andrea Montella, Pasquale Bandiera
- 16:00 The (proteUS) anisotropy effect in deep fascia ultrasonography: the impact of probe angulation on echogenicity and thickness assessments
Carmelo Pirri, Nina Pirri, Diego Guidolin, Enrico De Rose, Veronica Macchi, Andrea Porzionato, Raffaele De Caro, Carla Stecco
- 16:10 Discussione

Aula 1

Invecchiamento e patologie degenerative

moderatori: *Roberta Di Pietro, Guido Macchiarelli, Marco Vitale*

- 14:30 Long-term noradrenergic denervation induces aging-related brain pathology in mice
Alessandro Galgani, Marco Scotto, Giuseppe Federighi, Rossana Scuri, Marina Boido, Alessandro Vercelli, Filippo Sean Giorgi
- 14:40 Ultrastructural characterization of the blood-brain barrier in neonatal, adult and aged mice
Marco Scotto, Alessandro Galgani, Nooria Mohammady, Marta D'Amora, Francesco Tantussi, Filippo Sean Giorgi
- 14:50 Alarmins and emerging cytokines in COPD: histopathological insights and novel therapeutic targets
Josè Freni, Francesco Nucera, Fabiana Nicita, Antonio Ieni, Francesco Monaco, Sebastiano Gangemi, Giuseppina Cutroneo, Paolo Ruggeri
- 15:00 Defective autophagy in retinal pigment epithelium is a key determinant in producing some pathological hallmarks of AMD
Gloria Lazzeri, Michela Ferrucci, Paola Lenzi, Francesco Fornai
- 15:10 BET protein inhibition restores frataxin expression and redox homeostasis in Friedreich's ataxia models
Marika Guerra, Simona Guerra, Vittoria Pagliarini, Claudio Sette, Piergiorgio La Rosa
- 15:20 Organoidi cardiaci umani come modello tridimensionale per lo studio della senescenza cellulare
Fabiola Marino, Mariangela Scalise, Claudia Quercia, Loredana Pagano, Antonio Stincelli, Chiara Siracusa, Nunzia Amato, Mariacarmela Gatto, Antonella De Angelis, Konrad Urbanek, Daniele Torella, Eleonora Cianflone
- 15:30 Blood-brain barrier dysfunction in age-related neurodegeneration
Mariella Errede, Tiziana Annese, Francesco Girolamo, Antonio d'Amati, Carolina Pellegrini, Clarissa Pierucci, Nunzia Bernardini, Daniela Virgintino
- 15:40 Discussione

Aula 2

Modelli 3D, organoidi, scaffold biologici, rigenerazione tissutale

moderatori: *Gabriella Cusella, Angela Di Baldassarre, Nicoletta Gagliano, Giampaolo Papaccio*

- 14:30 The cell as integrated mechanosensor
Tito Panciera, Giada Vanni, Stefano Piccolo, Michelangelo Cordenonsi
- 14:40 Impact of antenatal exposure to bisphenol S and PFOS on brain organoids: morphological and molecular insights
Andrea Di Credico, Giulia Gaggi, Sandra Bibbò, Barbara Ghinassi, Angela Di Baldassarre
- 14:50 Bioactive hybrid scaffolds based on oxidized polyvinyl alcohol and human decellularized nerve matrix for peripheral nerve regeneration across critical length defects
Silvia Barbon, Elena Stocco, Antonia Barbazza, Diletta Trojan, Damiana Incendi, Martina Contran, Lucia Petrelli, Francesca Mazzarella, Rafael Boscolo-Berto, Cesare Tiengo, Raffaele De Caro, Veronica Macchi, Andrea Porzionato
- 15:00 Advanced medical devices for peripheral nerve regeneration using resorbable scaffolds
Elisa Paolin, Laura Benedetti, Mariarosa Polimeni, Renata Boratto, Rossella Dorati, Lorenzo Fassina, Gabriella Cusella, Gabriele Ceccarelli
- 15:10 Crafting brain's microvasculature: innovative approaches with silk and biofluidic platforms
Ciro De Luca, Assunta Virtuoso, Giovanni Cirillo, Atocha Guedán, Tando Maduna, Alan Morin, Julia Sepulveda Diaz, Andreas Vlachos, Fivos Panetsos, José Pérez- Rigueiro, Michele Papa
- 15:20 Production of decellularized composite biological scaffolds with preserved 3D architecture and vascular network
Veronica Romano, Anna Maria Sacco, Giulia Ricci, Daria Nurzynska, Antonio Menini, Simone La Padula, Fabrizio Schonauer, Franca Di Meglio, Clotilde Castaldo
- 15:30 Melanoma cancer stem cells and tumor microenvironment remodeling: a three-dimensional cell culture perspective
Martina Anselmi, Tiziana Cesetti, Elina Nürnberg, Giancarla Bernardo, Valentino Mario Le Noci, Nicoletta Gagliano, Lucia Sfondrini, Rüdiger Rudolf, Michele Sommariva
- 15:40 Discussione

Aula 3

Neuroscienze e neuromorfologia (GISN)

moderatori: *Antonio De Luca, Chiara Porro, Annamaria Morelli, Alessandro Vercelli*

- 14:30 Translational validation of molecular pathways involved in dystonia by DYT1 mouse model and accessible biofluids of affected patients
Giorgio Vivacqua, Francesco Emanuele Bellomi, Claudia Caturano, Eleonora Patricolo, Romina Mancinelli, Arianna Casini, Maria Ilenia De Bartolo, Daniele Belvisi, G. Fabbrini, Maria Zingariello, Simone Carotti, Alberto Caggiati, Eugenio Gaudio, Alfredo Berardelli, Massimo Marano
- 14:40 Decoding the functional architecture of the inferior fronto-occipital fasciculus: a multimodal neuroimaging approach
Gianpaolo Antonio Basile, Joan Falcó-Roge, Francesco Tomaiuolo, Michael Petrides, Sergio Lucio Vinci, Giuseppina Rizzo, Immacolata Belviso, Ferdinando Paternostro, Alberto Cacciola

- 14:50 Neuroanatomical correlates of preserved reflexive but impaired voluntary inhibition in Parkinson's disease: behavioural results and multimodal imaging of oculomotor circuits
Giovanni Cirillo, Antimo Buonocore, Carlo Cavaliere, Celeste Cafaro, Alessio Fracasso, Ciro De Luca, Giovanna Vermiglio, Michele Papa
- 15:00 Chrysin-loaded extracellular vesicles attenuate LPS-induced neuroinflammation in BV2 microglial cells in vitro: a novel neuroprotective strategy
Francesca Martina Filannino, Raffaella Soleti, Melania Ruggiero, Maria Ida de Stefano, Maria Antonietta Panaro, Angela Bruna Maffione, Tarek Benameur, Federico Zoila, Chiara Porro
- 15:10 Motor-cognitive integration: executive functions during dual-task walking assessed via wireless EEG and gait analysis
Lucariello Angela, Fullin Allegra, Gargiulo Ludovica, De Girolamo Ciro Ivan, Moccaldi Nicola, Arpaia Pasquale, De Luca Antonio, Paolo De Blasiis
- 15:20 Predictive biomarker of Parkinson's disease in intranasal rotenone-treated mice
Antonio Luigi Manai, Ajay Modi, Barbara Noli, Sheetal Choudhary, Jana Ruda-Kucerova, Eva Dražanová, Amit Khainar, and Cristina Cocco
- 15:30 Improved outcomes in peripheral nerve repair using a human amniotic membrane nerve wrap: a comparative preclinical study
Elena Stocco, Silvia Barbon, Antonia Barbazza, Diletta Trojan, Damiana Incendi, Martina Contran, Lucia Petrelli, Francesca Mazzarella, Rafael Boscolo-Berto, Cesare Tiengo, Raffaele De Caro, Veronica Macchi, Andrea Porzionato
- 15:50 A white matter-based neuroimaging biomarker for anatomically-informed survival prediction in glioblastoma
Joan Falcó-Roget, Gianpaolo Antonio Basile, Anna Janus, Sara Lillo, Letterio Salvatore Politi, Jan K. Argasinski, Alberto Cacciola
- 15:40 Discussion

ASSEMBLEA GENERALE DEI SOCI SIAI

16.30-18.00 Aula 3

CENA SOCIALE

20:00 Mercato Coperto
Piazza Andrea Costa 2 - 48121 Ravenna

SESSIONE POSTER presso i laboratori didattici

commissione poster: *Tullia Maraldi, Luca M. Neri, Rosa Alba Rana, Filippo Renò*

10.30-12.00 SESSIONE 1

001. Early antioxidant response and pro-inflammatory shift in cadmium-exposed human microglia
Branca Jacopo J.V., Guarnieri Giulia, Flavia Mencarelli, Annamaria Morelli, Gulisano Massimo, Pacini Alessandra
002. Novel nanocarriers as promising therapeutic strategy for myotonic dystrophy
Flavia Carton, Ilaria Andreana, Stefano Boetti, Claudia Migliorini, Chiara Rita Inguscio, Chiara di Meo, Pietro Matricardi, Barbara Stella, Silvia Arpicco, Manuela Malatesta

003. Anatomical insights on rare case of ileum–ileum–colon intussusception in an adult caused by a lipoma
Salvatore Pezzino, Tonia Luca, Mariacarla Castorina, Ornella Coco, Stefano Puleo 3 And Sergio Castorina
004. Description of the neutrophil extracellular traps in the gut epithelium of young and aged mice
Casini, S. Leone, R. Mancinelli, R. Vaccaro, M. Catalano, G. D'Alessandro, A. Rinaldi, A. Reccagni, G. Vivacqua, A. Franchitto, P. Onori, C. Limatola, E. Gaudio
005. Anatomical distribution and phenotypic specialization of macrophages in murine adipose tissues: implications for type 2 diabetes models
Lorenzo Nevi, Chiara Aiello, Francesca Molinaro, Francesca Sciarretta, Flavia Tortolici, Claudia Di Biagio, Daniele Lettieri-Barbato, Katia Aquilano, Alberto Caggiati, Simone Carotti
006. In vitro mechanical, biological and microbiological properties of an Ag-OMD enhanced composite resin
Stefania Balloni, Lorella Marinucci, Rebecca Cristofori, Chiara Valenti, Vincenzo Marchio, Giacomo Derchi, Stefano Pagano
007. Benralizumab modulates key signaling pathways in IL-5R–positive acute promyelocytic leukemia cells: a preliminary in vitro study
Jessica Bria, Silvia Di Agostino, Andrea Filardo, Nadia Lobello, Nicola Lombardo, Corrado Pelaia, Giovanna Lucia Piazzetta, Anna Di Vito, Emanuela Chiarella
008. Sarcoglycans as regulators of actin cytoskeleton and focal adhesion integrity in human articular chondrocytes
Antonio Centofanti, Michele Runci Anastasi, Michele Scuruchi, Giuseppe Santoro, Giuseppina Cutroneo
009. FTIR imaging: a new probe to characterize human uterine lesions' tissues
Chiara Santoni, Abel Duménigo González, Stefania Greco, Giulia Orilisi, Valentina Notarstefano, Giovanni Delli Carpini, Federica Giantomassi 6, Alessandra Filosa, Gaia Goteri, Andrea Ciavattini, Gian Franco Zannoni, Elisabetta Giorgini, Pasquapina Ciarmela
010. Dual role of garlic derivatives on invasive potential and β -catenin dynamics in breast tumor cells overexpressing HER2
Marcello Dell'Aira, Silvia Grassilli, Federica Brugnoli, Marina Pierantoni, Valeria Bertagnolo
011. Enhancement of nasal epithelial integrity in chronic rhinosinusitis with nasal polyps: the role of dupilumab in promoting spheroid organization and epithelial cell motility
Andrea Filardo, Jessica Bria, Nadia Lobello, Silvia Di Agostino, Giovanna Lucia Piazzetta, Corrado Pelaia, Preianò Mariaimmacolata, Nicola Lombardo, Anna Di Vito, Emanuela Chiarella
012. Integrating machine learning and deep learning for 3D imaging in confocal microscopy
Daniele Nosi
013. Exploring age-related impact: morphofunctional analysis of aged mouse explaining the link between aging, inflammation and Parkinson's disease
Antonia Cianciulli, Rosa Calvello, Melania Ruggiero, Antonella Compierchio, Chiara Porro, Francesca Martina Filannino, Francesca Chiara Serinelli, Dario Domenico Lofrumento, Marianna Kashyrina, Francesco De Nuccio, Maria Antonietta Panaro
014. Novel insights into the molecular mechanisms of LGMD2: role of TNPO3 in experimental cell and Zebrafish models
Maria Teresa Rodia, Martina Fazzina, Roberta Costa, Maria Teresa Altieri, Giuseppe Sabbioni, Elisabetta D'Aversa, Giulia Breveglieri, Elia Gatto, Cristiano Bertolucci, Sara Lombardi, Matteo Bergonzoni, Raffaella Casadei, Spartaco Santi, Valentina Papa, Stefano Ratti, Giovanna Cenacchi, Monica Borgatti, Flavia Frabetti
015. Intrasciatic injection may cause fascicle compression, suggesting a mechanism for iatrogenic injury? Morphological findings on a sciatic nerve model from cadaver

016. **Anti-inflammatory effect of acute administration of Kaempferol in the rat cerebral cortex mediated by changes in lipid homeostasis, endocannabinoid system, and PPAR α receptor during transient common carotid artery occlusion and reperfusion**
Maria Pina Serra, Gianfranca Carta, Marianna Boi, Ylenia Lai, Elisabetta Murru, Claudia Manca, Sebastiano Banni, Marina Quartu
017. **Ferroptosis as a key player in biliary epithelium during liver fibrosis**
Romina Mancinelli, Stefano Leone, Arianna Casini, Rosa Vaccaro, Marco Tagliafierro, Sara Vitale, Filippo Maria Bassi, Emanuele Bocci, Luigi Pannarale, Antonio Franchitto, Paolo Onori, Eugenio Gaudio
018. **In vitro fabrication of endothelialized human vascular grafts**
Anna Maria Sacco, Veronica Romano, Daria Nurzynska, Giulia Ricci, Sara Febbraio, Francesca Carbone, Fabrizio Schonauer, Clotilde Castaldo, Franca Di Meglio
019. **Rewiring NFAT signaling: toward novel treatments in hematologic and solid tumors**
Palague Saikumar, Giulia Veltri, Silvia Bresolin, Elena Mariotto, Sandra Marmioli, Valentina Serafin
020. **Engineering 3D models to investigate LGMDD2 transportin 3 related**
Serafina Pacilio, Roberta Costa, Maria Teresa Rodia, Sara Lombardi, Luana Di Lisa, Ghislain Banos, Nathalie Didier, Edoardo Malfatti, Stefano Ratti, Lucia Manzoli, Maria Letizia Focarete, Giovanna Cenacchi, Francesco Alviano.
021. **Role of the somatic mutations in the thrombopoietin/JAK2 axis differently predispose the pathological neutrophil-megakaryocytes emperipolesis in myelofibrosis.**
Velardi V, Arciprete F, Vivacqua G, Masselli E, Vannucchi AM, Rana RA, Zingariello M
022. **Extracellular vesicle crosstalk in fibroids: fibronectin downregulation by omega-3s**
Stefania Greco, Giovanni Delli Carpini, Rachele Agostini, Andrea Ciavattini, Michele Guescini, Pasquapina Ciarmela
023. **Role of anatomy in dentistry: a journey through centuries**
Sara Bernardi, Serena Bianchi, Diana Torge, Eada Meta, Davide Gerardi, Guido Macchiarelli
024. **Morpho-functional assessment of skeletal muscle in a rat model of fibromyalgia**
Milardi Demetrio, Josè Freni, Rocco Briganti, Chiara Culotta, Angelo Favaloro
025. **The receptor RAGE is re-expressed at myofiber level and sustains the onset and progression of cachexia in cancer conditions**
Sara Chiappalupi, Giulia Gentili, Laura Salvadori, Martina Paiella, Marcello Manfredi, Vittoria Federica Borrini, Kaamashri Mangar, Ann Marie Schmidt, Maurizio Muscaritoli, Francesca Riuzzi, Guglielmo Sorci
026. **Role of adrenomedullin in leukemic endosteal/vascular niches (protocol GIMEMA AML2220)**
Rosa Di Liddo, Marco Basso, Ermira Nexha, Giulia Ciotti, Alessandra Sperotto, Nicole Frullini, Alfonso Picciocchi, Valeria Sargentini, Enrico Crea, Adriano Venditti, Michele Gottardi
027. **Potential contribution of TPC2 to the Aggressive Traits of Malignant Melanoma**
Martina Meucci, Simonetta Petrunaro, Fioretta Palombi, Anna Riccioli, Antonio Filippini
028. **Testing the efficacy of two different plasma indirect treatments on 2D and 3D cell cultures of glioblastoma**
Giulia Petrucci, Janith Wanigasekara, Daniela Boehm, Gemma K. Kinsella, Paula Bourke, Amelia Cataldi, Di Giacomo Viviana
029. **Recent innovations in endodontic irrigation and effects on smear layer removal: an ex-vivo study**
Orlando Donfrancesco, Michela Relucenti, Stefania Annarita Nottola, Qorri Erda, Ayfer Atav, Aysenaz Gunes6, Luca Testarelli, Gianluca Gambarini

030. NLRP3 inflammasome and EndoMT in the heart of HOCL murine model of systemic sclerosis
Davide Labellarte, Giuseppe Santoro, Emanuela Rizzuto, Natasha Irrera, Giovanna Vermiglio
031. Cell instructive liquid crystalline networks and red photobiomodulation for myotube formation: a morphological study
Martina Parigi, Alessia Tani, Neri Fuochi, Francesco Palmieri, Rachele Garella, Caterina Licini, Aurora Longhin, Mirella Falconi, Sandra Zecchi-Orlandini, Roberta Squecco, Daniele Martella, Flaminia Chellini, Chiara Sassoli
032. miR-29a-3p regulates mitochondrial metabolism and redox status in cellular models of Fanconi Anemia
Vanessa Cossu, Matilde Balbi, Nadia Bertola, Stefano Regis, Fabio Corsolini, Carlo Dufour, Enrico Cappelli, Silvia Ravera
033. Biological evaluation of dihydroartemisinin-hybrids as potential anticancer agents for colon carcinoma
Elena Pozza, Fabio Casciano, Elena Marchesi, Paola Secchiero, Daniela Perrone, Maria Luisa Navacchia, Elisabetta Melloni
034. Altered mitochondrial function and turnover: a mechanism for long-term aging effects in survivors of childhood cancer
Matilde Balbi, Nadia Bertola, Vanessa Cossu, Chiara Fresia, Federica Sabatini, Silvia Ravera
035. Neuroactive steroids allopregnanolone and pregnenolone efficiently counteract bortezomib-evoked painful/sensory symptoms in a rat model
Federico Iseppon, Elisa Tonelli, Valentina Fabbro, Alessia Chiorazzi, Annalisa Canta, Paola Alberti, Valentina Alda Carozzi, Eleonora Pozzi, Laura Cherchi, Silvia Fermi, Ibtihal Segmani, Lisa Fantoni, Virginia Rodriguez, Elisa Ballarini, Guido Cavaletti, Carla Distasi, Dmitry Lim, Silvia Giatti, Cristina Meregalli
036. Cardiomyocyte lateral disconnection and ephrin-B1 reduction characterize left ventricular non-compaction cardiomyopathy
Manuel Belli, Luigi Sansone, Mario Cristina, Emanuela Frustaci, Romina Verardo, Matteo Antonio Russo, Andrea Frustaci

14.30-16.00 SESSIONE 2

commissione poster: *Tullia Maraldi, Luca M. Neri, Rosa Alba Rana, Filippo Renò*

001. Restoring tendon cell function after corticosteroid exposure: a therapeutic role for vitamin D and photobiomodulation
Alessandra La Contana, Martina Parigi, Aurora Longhin, Giorgia Cerqueni, Augusto Taccaliti, Nada Dahouadi, Loredana Rao, Valerio Del Vescovo, Mariangela Di Vincenzo, Monica Mattioli- Belmonte
002. Activation of the NALP3-CASP1-IL-1 β inflammatory pathway by pesticide exposure in human umbilical vein endothelial Cells
Antonella Mazzone, Ylenia Della Rocca, Federica Flamminii, Dainelys Guadarrama Bello, Antonio Nanci, Oriana Trubiani, Francesca Diomedea, Jacopo Pizzicannella
003. Ultrastructural evaluation of mouse-derived airway organoids: preliminary insights from light and transmission electron microscopy
Michela Relucenti, Loredana Cristiano, Ubaldo Romeo Plastina, Giuseppe Familiari, Xiaobo Li
004. Therapeutic potential of a novel GPR120 agonist (GprA) in experimental bile duct ligation- associated hepatic fibrosis
Francesca Ronca, Antonella Vetuschi, Simona Pompili, Alfredo Cappariello, Roberta Sferra
005. p53 pathway activation in bioreactor-generated breast cancer 3D spheroids

006. The HER2 regulatory network: elucidating heterogeneity, key nodes and interactions
Simona De Summa, Margherita Sonnessa, Francesco Alfredo Zito, Laura Schirosi, Concetta Saponaro
007. Evaluating the efficacy of virtual dissection tables for teaching anatomy to junior urology residents: insights from a randomized trial
Flavio Lorenzo Ronzoni, Marco Paciotti, Edoardo Beatrice, Claudia Ebm, Vittorio Fasulo, Massimo Lazzeri, Marco Borghesi, Alberto Briganti, Francesco Cianflone, Fabrizio Dal Moro, Ottavio De Cobelli, Cristian Fiori, Giorgio Gandaglia, Francesco Alessandro Mistretta, Francesco Montorsi, Gennaro Musi, Francesco Porpiglia, Andrea Salonia, Gianluigi Taverna, Carlo Terrone, Paolo Casale, Giovanni Lughezzani, Maria Angela Cerruto, Nicolò Maria Buffi
008. Obesity induced renal inflammation in high-fat-diet obese rats: possible effects of anthocyanin rich fruits
Ilenia Martinelli, Vincenzo Bellitto, Proshanta Roy, Giulio Nittari, Maria Vittoria Micioni di Bonaventura, Carlo Cifani, Seyed Khosrow Tayebati, Daniele Tomassoni
009. Impact of uremic proteins on immune proteostasis: molecular mechanisms and apoptosis signaling in peripheral blood leukocytes
Ina Varfaj, Anna Maria Stabile, Anna Migni, Federica Ianni, Maria Antonietta Grignano, Alessandra Anna Altomare, Mario Rende, Carmelo Libetta, Francesco Galli, Desirée Bartolini
010. Blood-derived NK cells modulate the calcification process in primary cultured human fibroblasts
Antonella Bonetti, Simona Carlomagno, Simona Sivori, Fulvia Ortolani
011. Cortical dendritic alterations induced by repeated oxaliplatin administration
Guido Cavaletti, Paola Marmioli, Giulia Iezzi, Alessandro Vercelli
012. Alterations of cytoskeletal and sarcoglycan complex proteins in the cremaster muscle in patients with retractile testis and undescended testis
Angelo Favaloro, Ilenia Papaleo, Fabiola Cassaro, Pietro Impellizzeri, Carmelo Romeo, Salvatore Arena
013. Comparing differentiation protocols for pancreatic endocrine commitment of amniotic epithelial cells
Aretha Rambaldi, Francesca Paris, Pasquale Marrazzo, Roberta Costa, Astrid Sodomaco, Giuliana Simonazzi, Laura Bonsi, Stefano Ratti, Lucia Manzoli, Francesco Alviano
014. Sorcin regulates alveolarization and airway tissue remodeling during lung morphogenesis
Claudia Tito, Luciana De Angelis, Alessia Iaiza, Annalisa Abbinanteffina, Vincenzo Petrozza, Silvia Masciarelli, Gianni Colotti, Francesco Fazi
015. Mutual interaction between Schwann cells and hepatocellular carcinoma: a potential role in neoplastic progression
Elisa Pizzichini, Simonetta Petrunaro, Francesca Somma, Antonio Filippini, Eugenio Gaudio, Cinzia Fabrizi, Claudia Giampietri
016. Hypopressive abdominal gymnastics influences sleep quality: a pilot study
Letizia Galasso, Lucia Castelli, Grazia Pasta, Jessica Caspani, Eliana Roveda, Angela Montaruli
017. Controlled delivery of a membrane-targeted photoswitch for long-term neuronal reactivation in retinal degeneration
Gemma Palazzolo, Francesca Vacca, Mattia Di Francesco, Tomaso Gianiorio, Nikita Telitsyn, Federica De Cecco, Alessandro Masoero, Denise Murgia, Valentina Cauda, Paolo Decuzzi, Stefano Di Marco, Elisabetta Colombo, Fabio Benfenati
018. Potential anti-inflammatory effect on the intestinal barrier of carbonic anhydrase modulators targeting host-gut microbiota interactions

019. Preservation of intestinal permability by hazelnut film in cellular model of inflammatory and radiation-induced mucosal injury
Chiara Aiello, Lorenzo Nevi, Gabriele D'Ercole, Francesca Molinaro, Laura Dugo, Annamaria Altomare, Laura Restaneo, Michele Fiore, Sara Ramella, Michele Guarino, Alberto Caggiat, Simone Carotti
020. Expression of CD34 and α -SMA in obese mice
Anthea Miller, Magdalena Kotańska, Marek Bednarski, Laura Spiccia, Giorgia Pia Lombardo, Alexia Severino, Valentina Natale, Giuseppina Rizzo, Simona Pergolizzi
021. Dissecting isoform-specific functions of AKT in acute myeloid leukemia (AML)
Ludovica Antolini, Valentina Serafin, Giorgio Arrigoni, Christian Borgo, Manuela Zavatti, Sandra Marmioli
022. AI-powered morphological screening of the skin: a useful tool in aesthetic medicine
Gopi Battineni, Nalini Chintalapudi, Francesco Amenta
023. Curcuma caesia Roxb. A possible blue elixir of youth and wellness
Sabrina Burattini, Federico Gianfanti, Francesco Onesimo, Michele Mari, Michele Retini, Riham Osman, Matteo Micucci and Michela Battistelli
024. An antioxidant and neuroprotective effect of ubiquinol diacetate in in vitro models of Parkinson's disease
Sabrina Burattini, Matteo Micucci, Riham Osman, Francesco Onesimo, Michele Mari, Michele Retini, Andrea Tarozzi, Federico Gianfanti, Letizia Pruccoli, Michela Battistelli
025. Anatomical variability of dental structures in northwestern Italy: A CBCT-based preliminary study
Elena Canciani, Mahmoud Alafandi, Paolo Boffano, Matteo Brucoli, Manuela Rizzi, Simona Casarella, Francesca Boccafroschi
026. The role of mesenchymal stromal cells in regulating cellular senescence in alveolar lung cells: implications in the pathogenesis of idiopathic pulmonary fibrosis
Aurora Longhin, Valentina Gatta, Gabriella Teti, Venerino Poletti, Mirella Falconi
027. Inter-cellular communications between mesenchymal-stromal cells and MDS hematopoietic cells during luspatercept response
Ceneri Eleonora, Cappellini Alessandra, Barausse Carlo, Longhin Aurora, Casalin Irene, De Stefano Alessia, Rusciano Isabella, Falconi Mirella, Cocco Lucio Ildebrando, Ratti Stefano, Manzoli Lucia, Finelli Carlo, Follo Matilde Y., Teti Gabriella, Alviano Francesco
028. Study of the development of new bio-sustainable food packaging technologies to prevent chronic inflammatory conditions in disease
Francesca Martina Filannino, Maria Ida de Stefano, Federico Zoila, Antonella Compierchio, Antonia Cianciulli, Rosa Calvello, Dario Domenico Lofrumento, Melania Ruggiero, Maria Antonietta Panaro, Chiara Porro
029. Evaluating the expression and the subcellular localization of phosphoinositide-specific phospholipase C enzymes in different human osteosarcoma cell lines.
Matteo Corradini, Marta Checchi, Marta Benincasa, Marzia Ferretti, Francesco Cavani, Carla Palumbo, Vincenza Rita Lo Vasco
030. Glioblastoma-on-chip: an innovative microfluidic system to investigate the secretome and tumor microenvironment interplay
D'Amico Agata Grazia, Maugeri Grazia, Gulisano Massimo, Rasà Daniela Maria, D'Agata Velia
031. Histological evaluation of peri-implant dehiscence treated with Sub-Periosteal Peri-implant Augmented Layer (SPAL) technique combined with deproteinized bovine bone mineral: a retrospective proof of concept study

Claudia Dellavia, Leonardo Trombelli, Chiara Franzini, Mattia Severi, Daniela Carmagnola, Marilisa Toma, Vittoria Balza, Gaia Pellegrini

032. 3D facial morphometric analysis in two sets of mosaic twins with Cri-du-Chat syndrome
Claudia Dolci, Riccardo Solazzo, Cesare Danesino, Michela Malacarne, Andrea Guala, Roberto Valli, Giovanna Piovani, Annalisa Cappella, Chiarella Sforza
033. Exploring a multidimensional perspective on intestinal permeability in inflammatory bowel disease: the interplay of microbiota, nutrition, morphological and molecular biomarkers
Laura Restaneo, Lorenzo Nevi, Giovanni De Carlo, Simone Filardo, Chiara Ceriani, Martina Nespoli, Sofia Remedia, Alessia Lo Dico, Rosa Sessa, Michele Cicala, Michele Pier Luca Guarino, Gloria Bertoli, Annamaria Altomare and Simone Carotti
034. Erythrogram indicators as prognostic biomarkers in patients with coronavirus disease 2019
Gaia Favero, Maria Eduarda Andretta, Matias Nunes Frizzo, Pauline Brendler Goettems-Fiorin, Thiago Gomes Heck, Lucas Machado Sulzbacher, Maicon Machado Sulzbacher, Mirna Stela Ludwig, Lonati Claudio, Francesca Sulas, Rita Rezzani, Vitor Antunes de Oliveira
035. Soluble α -Klotho protects dermal microvascular endothelial cells against endothelial-to-myofibroblast transition
Eloisa Romano, Irene Rosa, Eleonora Sgambati, Bianca Saveria Fioretto, Mirko Manetti
036. A study on the co-detection of a neuromelanin pigment and neurotransmitters in the human dentate nucleus
Paolo Flace, Maria Elena Caringella, Diana Galletta, Gabriella Santangelo, Maria Stolfi, Massimo Gulisano, Gisella Agazzino, Angelo Quartarone, Paolo Livrea, Andrea Marzullo
037. Photobiomodulation wavelength-dependently regulates cellular activities in epidermal regenerative processes
Monica Stelluto, Angelica Perna, Armando Ricciardi, Andrea Cusano, Carmine Sellitto, Emiliano Del Genio, Aldo Mileo, Antonio De Luca, Sabato Fusco, Germano Guerra

Sabato 20 Settembre

Ospedale Santa Maria delle Croci, sede del Corso di Laurea in Medicina e Chirurgia

9.00-10.30 LETTURA MAGISTRALE

moderatori: *Guido Carpino, Monica Mattioli-Belmonte, Stefano Ratti, Virginia Tirino*

Minimally invasive strategies for modulating congenital malformations in utero

Bruna Corradetti, PhD MSc Baylor College of Medicine, Houston, TX, USA

10.30-12.00 SESSIONE GIOVANI

Aula Magna O. Triossi

Giovani 1

moderatori: *Valeria Bertagnolo, Francesca Boccafroschi, Guglielmo Sorci, Oriana Trubiani*

- 10:30 Endothelial-derived thymidine phosphorylase deficiency triggers enteric neurodegeneration: unraveling the neurovascular crosstalk in intestinal dysmotility
Irene Neri, Elisa Boschetti, Tultul Saha, Stephanie Rommel, Steven Schulte, Manuela Gries, Roberto De Giorgio, Lucia Manzoli, Karl-Herbert Schäfer, Stefano Ratti

- 10:40 A probiotic mixture standardized with maltodextrin prevents cognitive decline and AD-related pathology in a mouse model of accelerated senescence by maintaining the integrity of the gut mucosal-vascular barrier
Clarissa Pierucci, Giovanni Palermo, Marta Del Chicca, Cristina Segnani, Chiara Ippolito, Vanessa D'Antongiovanni, Angela Amoroso, Annalisa Visciglia, Giovanni Deusebio, Gloria Tognoni, Giulia Ricci, Roberto Ceravolo, Gabriele Siciliano, Carolina Pellegrini, Nunzia Bernardini
- 10:50 Mild chronic colitis worsens cognitive impairment in a spontaneous mouse model of Alzheimer's disease via gut-inflammasome-brain axis
V. D'Antongiovanni, C. Pierucci, G. Valdiserra, L. Antonioli, M. Fornai, C. Di Salvo, E. Marini, M. Bertinaria, N. Bernardini, C. Pellegrini
- 11:00 Lactiplantibacillus plantarum IMC 510 supplementation promotes colonic well-being in animal models of cafeteria-induced obesity
Vincenzo Bellitto, Ilenia Martinelli, Maria Magdalena Coman, Giulio Nittari, Maria Vittoria Micioni di Bonaventura, Carlo Cifani, Seyed Khosrow Tayebati, Stefania Silvi, Daniele Tomassoni
- 11:10 Morphometric evaluation of enteric ganglia as a diagnostic tool in severe gut dysmotility
Santino Blando, Elisa Boschetti, Irene Neri, Carolina Malagelada, Sara Mongiorgi, Roberto De Giorgio, Lucia Manzoli, Stefano Ratti
- 11:20 Stimulation of soluble guanylate cyclase: a novel approach to treat conjunctival fibrosis
Bianca Saveria Fioretto, Irene Rosa, Elena Andreucci, Rita Mencucci, Mirca Marini, Eloisa Romano, Mirko Manetti
- 11:30 Dopaminergic differentiation from the novel pluripotent cell line hGMSCs-derived iPS: a new tool for personalized regenerative medicine
Ylenia Della Rocca, Antonella Mazzone, Paolo Guglielmi, Simone Carradori, Maurizio Piattelli, Guya Diletta Marconi, Oriana Trubiani, Jacopo Pizzicannella, Francesca Diomede
- 11:40 Discussione

Aula P. Scorza

Giovani 2

moderatori: *Marco Artico, Angelo Favaloro, Barbara Ghinassi, Veronica Macchi*

- 10:30 Unravelling axonal damage mechanisms in peripheral nerves: the role of sodium-calcium (NCX) exchanger
Paola Alberti, Chiara Invernizzi, Margherita Kraus, Alessio Malacrida, Virginia Rodriguez-Menendez, Elisa Ballarini, Sara Di Girolamo
- 10:40 Epiretinal membranes: cell receptors involved in cell migration and their interaction with the extracellular matrix
Denise Bonente, Tiziana Tamborrino, Miriam Durante, Virginia Barone, Claudio Nicoletti, Eugenio Bertelli
- 10:50 SINEUP non-coding RNAs increase RAI1 protein level in a cellular model of Smith-Magenis syndrome
Jasmine Covarelli, Elisa Vinciarelli, Alessandra Mirarchi, Paolo Prontera, Cataldo Arcuri
- 11:00 Implementation of gamification, flipped-classroom approach and 3D virtual tools in neuroanatomy teachings: a pilot phase
Paola Alberti
- 11:10 Analisi ultrastrutturale 3D delle interazioni reticolo endoplasmatico assonale-mitocondri e scaling morfometrico negli assoni neuronali
Vitalijs Borisovs, Mario Bossi, Guido Cavaletti

- 11:20 Environmental pollutants impair human GnRh neuron migration: mechanistic insights from an in vitro model
Giulia Guarnieri, Jacopo JV Branca, Letizia Lazzerini, Flavia Mencarelli, Gianluca Mattei, Alberto Magi, Matteo Becatti, Massimo Gulisano, Alessandra Pacini, Annamaria Morelli
- 11:30 Autosomal dominant leukodystrophy: dissecting astrocyte dysfunction through in vitro 2D and 3D models and ex vivo cerebrospinal fluid metabolomics
Foteini Dionysia Koufi, Valeria Righi, Adele Mucci, Isabella Rusciano, Sara Mongiorgi, Minkyung Shin, Yoichi Kosodo, Ilaria Cani, Pietro Cortelli, Elisa Giorgio, Giulia Ramazzotti, Lucia Manzoli, Stefano Ratti
- 11:40 Discussione

Aula 1

Giovani 3

moderatori: *Cecilia Carubbi, Sandra Marmioli, Andrea Porzionato, Roberto Toni*

- 10:30 Targeting neuroinflammation and aging: milmed yeast as a novel probiotic activating autophagy and SKN- 1/Nrf2 signaling
Federica Armeli, Beatrice Mengoni, Emily Schifano, Thomas Lenz, Trevor Archer, Daniela Uccelletti, Rita Businaro
- 10:40 Pesticides exposure in HUVEC cells: telomerase dysfunction, morphological modification and mtDNA variation.
Antonella Mazzone, Fani Konstantinidou, Daniela Lamanna, Ylenia Della Rocca, Valentina Gatta, Guya Diletta Marconi, Dainelys Guadarrama Bello, Rossana Falcone, Monica Mattioli-Belmonte, Antonio Nanci, Oriana Trubiani, Francesca Diomedea, Jacopo Pizzicannella
- 10:50 Effect of type 5 phosphodiesterase (Pde5) deletion on neurogenesis
Eugenia Guida, Serena Fuda, Ambra Colopi, Federica Campolo, Emmanuele A. Jannini, Susanna Dolci
- 11:00 Rejuvenation of intestinal microbiota via microbiota transfer in aged mice: effects on local expression of proteins and function
Tiziana Tamborrino, Alfonsina d'Amato, Annalisa Altera, Angela L. Man, Ferdinando Paternostro, Massimo Gulisano, Denise Bonente, Virginia Barone, Eugenio Bertelli, David Vauzour, Claudio Nicoletti
- 11:10 Selenoprotein T mitigates cardiomyocyte senescence via CD36 receptor modulation
Anna De Bartolo, Vittoria Rago, Naomi Romeo, Marika De Cicco, Benjamin Lefranc, Jérôme Leprince, Giuseppe Passarino, Pasquale Pagliaro, Youssef Anouar, Carmine Rocca, Tommaso Angelone
- 11:20 Multi-modal imaging for comprehensive analysis of muscle-tendon unit injury
Caterina Licini, Nicole Riberti, Chiara Santoni, Rachele Garella, Guendalina Lucarini, Ilaria Nunzi, Saverio Marchi, Elisabetta Giorgini, Mirella Falconi, Alessandra Giuliani, Monica Mattioli- Belmonte
- 11:30 Preclinical evaluation of a small molecule inhibitor of WDR5 in facioscapulohumeral muscular dystrophy (FSHD)
Emanuele Mocciano, Frida Karakashi, Brian Wilson, Ahmed Aman, Jai Ramnauth, David Uehling, Rima Al-Awar, Claudia Moscheni, Davide Gabellini
- 11:40 Phenotyping knee osteoarthritis through gait and balance assessment using machine learning
Federico Roggio, Martina Sortino, Bruno Trovato, Gianluca Testa, Vito Pavone, Michele Vecchi, Rita Chiaramonte, Debora Di Mauro, Fabio Trimarchi, Alberto Canzone, Antonino Bianco, Giuseppe Musumeci
- 11:50 Extracorporeal shockwave therapy stimulates myogenic differentiation in C2C12 myoblasts: ultrastructural insights into muscle regeneration
Larisa Ryskalin, Federica Fulceri, Paola Soldani, Maria Cristina D'Agostino, Gabriele Morucci, Stefania Moscato, Marco Gesi
- 12:00 Discussione

Aula 2

Giovani 4

moderatori: *Amelia Cataldi, Valentina Di Felice, Antonio Franchitto, Carla Palumbo*

- 10:30 Regulation of apoptosis and phosphoinositide-related pathways in hematopoietic cells during azacitidine and venetoclax treatment
Irene Casalini, Eleonora Ceneri, Alessia De Stefano, Alessandra Cappellini, Carlo Finelli, Antonio Curti, Anna Ferrari, Giorgia Simonetti, Sara Mongiorgi, Isabella Rusciano, Tullia Maraldi, Lucio I.M. Cocco, Stefano Ratti, Lucia Manzoli, Matilde Y. Follo
- 10:40 Spatial molecular analysis for the study of epithelial-immune crosstalk in primary sclerosing cholangitis and cholangiocarcinoma
Diletta Overi, Guido Carpino, Stefano Leone, Ludovica Ceci, Vincenzo Cardinale, Domenico Alvaro, Paolo Onori, Selenia Miglietta, Rosanna Di Tinco, Alessandra Pisciotta, Gianluca Carnevale and Eugenio Gaudio
- 10:50 DYRK3 regola la motilità e l'invasione delle cellule tumorali tramite fosforilazione di Liprin- $\alpha 1$
Martina Ramella, Daniele Brambilla, Sara Surini, Diletta Tonoli, Lucrezia Maria Ribolla, Ivan de Curtis
- 11:00 Characterization of the glial dynamics within the organotypic brain to hijack glioblastoma.
Assunta Virtuoso, Luca Riccio, Ciro De Luca, Alberto Coccarelli, Salahudeen Mohamed, Flavio De Angelis, Giovanni Cirillo, Antonio De Luca, Michele Papa
- 11:10 Leukaemia-induced microglial activation and neuroinflammation in an acute myeloid leukemia mouse model
Alessandra Mirarchi, Marta Febo, Oxana Bereshchenko, Jasmine Covarelli, Stefano Bruscoli, Cataldo Arcuri
- 11:20 Optimized lentiviral gene delivery and functional targeting of PLC $\beta 1$ in acute promyelocytic leukemia models
Leto Stefano, Rusciano Isabella, Orsini Ester, Mongiorgi Sara, Cocco Lucio, Ratti Stefano, Manzoli Lucia, Fiume Roberta
- 11:30 From laminopathies to glioblastoma: exploiting nuclear dysfunction to target tumor resistance
Maria Vittoria Marvi, Camilla Evangelisti, Isabella Rusciano, Camilla Bruna Cerchier, Irene Neri, Lucio Ildebrando Cocco, Lucia Manzoli, Cristina Capanni, Stefano Ratti
- 12:00 Discussione

Aula 3

Giovani 5

moderatori: *Marco Marchisio, Maria Antonietta Panaro, Marina Quartu*

- 10:30 The digital transformation of anatomy: connecting body donation, imaging, and biomedical innovation
Elisa Lodolo, Laura Forni, Simone Lodi, Ester Orsini, Giulio Vara, Giulia Mariani, Marilisa Quaranta, Laura Ingrà, Desirée Martini, Alessandra Ruggeri, Lucia Manzoli, Stefano Ratti
- 10:40 Anatomical impact of neurocranial deformation on stomatognathic asymmetry
Gregorio Oxilia, Ferdinando Paternostro, Giuseppe Troiano, Fabrizio Michetti, Jacopo Moggi Cecchi
- 10:50 Postural adaptations in upright standing due to virtual reality in healthy subjects
De Girolamo Ciro Ivan, Fullin Allegra, Perna Angelica, Lucariello Angela, Guerra Germano, De Luca Antonio, De Blasiis Paolo.

- 11:00 Fratture di Le Fort I e II su donatore: la preparazione anatomica ad alta fedeltà clinica finalizzata al training avanzato per la gestione in emergenza delle vie aeree del paziente con trauma complesso del distretto testa-collo
Andrea Galvani, Carlo Barausse, Giulio Vara, Laura Forni, Simone Lodi, Lucio Cocco, Lucia Manzoli, Stefano Ratti
- 11:10 Face off: exploring how sex shapes facial variation in italian adults
Riccardo Solazzo, Annalisa Cappella, Alice Alderighi, Daniele Gibelli, Claudia Dolci, Chiarella Sforza
- 11:20 Modeling diabetic keratopathy using organotypic corneal epithelium
Nicoletta Palmeri, D'Amico Agata Grazia, Antonio Longo, Davide Scollo, D'agata Velia, Maugeri Grazia
- 11:30 Pde5a deficiency promotes white-to-beige adipocyte conversion via cAMP-PKA activation
Ottavia Giampaoli, Biagio Palmisano, Federica Barbagallo, Fabio Sciubba, Antonio Filippini, Susanna Dolci, Fabio Naro, Maurilio Sampaolesi, Mara Riminucci, Francesca Gioia Klinger, Mary Anna Venneri, Andrea M. Isidori, Federica Campolo
- 11:40 Anatomical and functional characterization of norbormide-induced rattus-selective cardiovascular toxicity: novel morphological insights into species-specific vascular injury
Miriam Durante, Alessia Bichicchi, Eugenio Bertelli, Sergio Bova, Simona Saponara
- 11:50 Circadian dependent motility: the role for the perinuclear actin cap
Montacci Elisa, Sgarzi Michela, Paola Cecchi, Romaniello Donatella, Lauriola Mattia
- 12:00 Discussione

CONCLUSIONI E PREMIAZIONI SIAI

12.15-13.00 AULA 3

LUNCH 13.00-14.00

SESSIONE POSTER *presso i laboratori didattici*

commissione poster: *Tullia Maraldi, Luca M. Neri, Rosa Alba Rana, Filippo Renò*

10.30-12.00 SESSIONE 3

001. Hemp extracts mitigate LPS-induced renal inflammation: evidence from a rat model
Giorgia Pia Lombardo, Anthea Miller, Magdalena Kotańska, Marek Bednarski, Laura Spiccia, Valentina Natale, Alba Migliorato, Eugenia Rita Lauriano, Giuseppina Rizzo, Simona Pergolizzi
002. Osteo-dental assessment of imperial roman skulls from an urban necropolis in Milan: a preliminary observational study
Dolaji Henin, Lucie Biehler-Gomez, Danilo De Angelis, Maria Claudia Manicone, Alessia Abate, Sila Meral, Giulia Minnella, Daniela Carmagnola
003. Immunohistochemical evaluation of immune cells in rat lung parenchyma after LPS-induced inflammation
Laura Spiccia, Magdalena Kotanska, Marek Bednarski, Anthea Miller, Giorgia Pia Lombardo, Valentina Natale, Aurora Restuccia, Alba Migliorato, Simona Pergolizzi
004. Low bifurcation of the superficial temporal artery: a rare variant anatomical and clinical insights from a cadaveric dissection introduction

005. Stem cell derived extracellular vesicles ameliorate the neuron mitochondrial damage induced by ROS-LPS-exposure: in vitro model of neuron, microglia, and astrocyte triple co-culture
Marta Malenchini, Francesca Beretti, Martina Gatti, Tullia Maraldi
006. Characterizing biliary compartment remodeling in MASLD: a molecular and histopathological analysis
Francesca Molinaro, Lorenzo Nevi, Chiara Aiello, Francesca Terracciani, Andrea Baiocchi, Francesca Zalfa, Umberto Vespasiani-Gentilucci, Alberto Caggiati, Simone Carotti
007. Wool waste-derived keratin patches infused with grape pomace extracts differently impact adhesion molecules and cell functions in human cancer and normal epithelial cell lines: finding biomaterial for possible medical applications
Barbara Canonico, Serena Benedetti, Mariela Montanari, Daniele Lopez, Giovanna Panza, Stefano Papa, Luca Casertari, Matteo Micucci, Annalisa Aluigi
008. Effects of a 5-day fasting-mimicking diet on body composition, performance, and hormonal responses in trained males
Gabriele Morucci, Matteo Levi Micheli, Larisa Ryskalin, Federica Fulceri, Paola Soldani, Niccolò Timperanza, Roberto Cannataro, Marco Gesi
009. Mapping macrophage diversity in murine adipose tissue: connecting immune phenotypes to lipid-induced metabolic dysfunction and type 2 diabetes
Lorenzo Nevi, Chiara Aiello, Francesca Molinaro, Francesca Sciarretta, Flavia Tortolici, Claudia Di Biagio, Daniele Lettieri-Barbato, Katia Aquilano, Alberto Caggiati, Simone Carotti
010. Antonio Pacchioni: an illustrious italian physician and anatomist
Marco Artico, Francesco M. Galassi, Samanta Taurone, Marco Vitale, Ivano Pindinello, Luigi Cofone
011. Bone regeneration triggered by new bioactive glass scaffolds in a rabbit model
Francesca Paganelli, Roberta Salvatori, Marianna Barbalinardo, Marta Checchi, Ilaria Zanoni, Francesca Chiarini, Matteo Corradini, Devis Bellucci, Alexandre Anesi, Valeria Cannillo, Carla Palumbo, Francesco Cavani, Marzia Ferretti
012. More CAMs - one goal: building a living platform for bone regeneration
Marta Checchi, Francesca Paganelli, Francesca Chiarini, Matteo Corradini, Marta Benincasa, Marzia Ferretti, Vincenza Rita Lo Vasco, Francesco Cavani, Carla Palumbo
013. Evaluation of a gel based on hyaluronic acid and spermidine for oral regenerative purposes: an in vitro and ex vivo study
Gaia Pellegrini, Nicoletta Gagliano, Elena Canciani, Dolaji Henin, Riccardo Sirello, Mariachiara Perrotta, Luca Denti, Claudia Dellavia
014. The role of GATA3 and TGF- β in trophoblast development: molecular interactions in normal pregnancy versus preeclampsia
Angelica Perna, Emiliano Del Genio, Aldo Mileo, Paolo De Blasiis, Beatrice Scala, Angela Lucariello, Germano Guerra, Alfonso Baldi, Antonio De Luca
015. Detection of neurodegenerative and neuroinflammatory biosignatures characterizing mild cognitive impairment condition
Alessandra Pistilli, Anna Maria Stabile, Gabriele Di Sante, Mariangela Ruggirello, Desirée Bartolini, Mario Rende
016. Exploring the regenerative effects of mesenchymal stromal cell-derived extracellular vesicles on myofibers.
Aurora Longhin, Valentina Gatta, Gabriella Teti, Chiara Sassoli, Flaminia Chellini, Alessia Tani, Martina Parigi, Rachele Garella, Francesco Palmieri, Roberta Squecco, Monica Mattioli Belmonte, Caterina Licini, Alessandra La Contana, Alessandra Ruggeri, Sandra Zecchi-Orlandini, Mirella Falconi

017. Human fibroblast migration across the wound bed is enhanced by the novel nucleopeptide NP3
Raffaele Pastore, Emiliano Del Genio, Aldo Mileo, Giovanna Cataldo, Stefania Boccia, Moayad Ismail, Giovanni N. Roviello, Maria De Falco, Antonio De Luca, Germano Guerra
018. Morphological characterization and origin of vernix caseosa
Rita Rezzani, Francesca Sulas, Corrado Federico Punzi, Daniela Pinto, Fabio Rinaldi, Claudio Lonati, Alessandra Stacchiotti, Francesca Arnaboldi, Gaia Favero
019. Modulation of S100B in experimental models of multiple sclerosis: effect on different glial cell types
Maria De Carluccio, Gabriele Di Sante, Maria Elisabetta Clementi, Mariangela Ruggirello, Anna Maria Stabile, Alessandra Pistilli, Stefano Marini, Vincenzo Romano Spica', Mario Rende, Francesco Ria, Fabrizio Michetti
020. Pathogenic effects of the AP1G1 c.196G>A variant in Usmani-Riazuddin syndrome: functional and neuroanatomical evidence from zebrafish
Cataldo Arcuri, Valentina Imperatore, Giuseppe Borsani, Daniela Zizioli, Sara Ferretti, Alessandra Mirarchi, Jasmine Covarelli, Andrea Astolfi, Letizia Barreca, Elisa Vinciarelli, Paolo Prontera
021. 3D spheroids for morphological analysis of prostate carcinoma cells with different EMT-related phenotype: tips and tricks
Ana Luiza Romano Gabriel, Stefano Vinci, Martina Anselmi, Francesca Bianchi, Michele Sommariva, Sergio Luis Felisbino, Nicoletta Gagliano
022. Molecular mechanisms underlying inflammatory and remodeling events differently regulated by cruelty-free method-extracted snail slime and glycolic acid
Muhammad Rashad, Alessia Ricci, Marwa Balaha, Amelia Cataldi, Susi Zara
023. Morphostructural and biomechanical characterization of the human large bowel: toward computational modeling for device design in colostomy
Elena Stocco, Silvia Barbon, Gloria Sarasin, Iliana Toniolo, Maria Vittoria Mascolini, Chiara Giulia Fontanella, Emanuele Luigi Carnie, Fabrizio Vittadello, Giacomo Sarzo, Andrea Porzionato, Raffaele De Caro, Veronica Macchi
024. TEM-based characterization of a hybrid lipid nanoparticle system for the intracellular gene delivery
S. Miglietta, E. Quagliarini, D. Pozzi, L. Cristiano, G. Familiari, F. Petronella, G. Caracciolo, L. De Sio
025. Adipose-derived mesenchymal stem cells extracellular vesicles mitigate neurotoxicity induced by antineoplastic drugs in sensory neurons.
Chiara D'Aprile, Adele Naghshbandieh, Valentina Fabbro, Ermanna Turano, Iliana Scambi, Federica Virla, Mauro Caprioli, Raffaella Mariotti, Cristina Meregalli, Arianna Scuteri
026. Assessing ancient disability: an integrated osteo-imaging analysis of congenital hip dysplasia
Flavio De Angelis, Giovanni Cirillo, Ciro De Luca, Assunta Virtuoso, Antonio De Luca, Michele Papa
027. From wax to science: the pioneering work of Paolo Mascagni in anatomical research
Ester Orsini, Elisa Lodolo, Anna Maria Billi, Giulia Mariani, Marilisa Quaranta, Laura Ingrà, Desirée Martini, Laura Forni, Simone Lodi, Lucia Manzoli, Stefano Ratti, Lucio I. M. Cocco
028. Somatostatin and analogs: biological and molecular insights from in vitro breast cancer
Sicurella M., Dipinto A, Franco F, De Vita M, Neri LM
029. BeING-FrESH: benefits induced by NGF against risks derived from environmental contaminants for sperm
Anna Maria Stabile, Mariangela Ruggirello, Alessandra Pistilli, Desirée Bartolini, Gabriele Di Sante, Alessandro Favilli, Sandro Gerli, Mario Rende
030. Nanostructured PCL surfaces modulate the biological activity of human ureteral epithelial and muscle cells: a preliminary study

031. **Patellofemoral pain syndrome: focused vibrations plus kinesiotaping with insights into radiological influences-an observational study**
Antonello Ciccarelli, Gabriele Santilli, Milvia Martino, Patrizia Pacini, Francesco Agostini, Andrea Bernetti, Luca Giuliani, Giovanni Del Gaudio, Massimiliano Mangone, Vincenzo Colonna, Mario Vetran, Maria Chiara Vulpiani, Giulia Stella, Samanta Taurone, Carlo Ottonello, Vito Cantisani, Marco Paoloni, Pietro Fiore, Francesca Gimigliano, Antonio Franchitto
032. **Macular alterations in a cohort of caucasian patients affected by retinitis pigmentosa**
Samanta Taurone, Marcella Nebbioso, Marco Artico, Elvia Mastrogiuseppe, Eleonora Gnolfo, Antonietta Moramarco, Fabiana Mallone, Annarita Vestri, Alessandro Lambiase, Gabriele Santilli, Antonello Ciccarelli
033. **Human lung d-ECM scaffolds as an in vitro model of the pre-metastatic niche in breast cancer**
Emiliano Del Genio, Raffaele Pastore, Aldo Mileo, Alfonso Fiorelli, Noemi Maria Giorgiano, Maria Letizia Motti, Immacolata Belviso
034. **Alteration of collagen deposition in cardiac muscle tissue of mice following antibiotic-induced gut dysbiosis**
S. Vinci, F. Arnaboldi, L. Forleo, L. Sfondrini, F. Bianchi, N. Gagliano
035. **Modulation of miR-145 targets in response to Akt inhibitor AZD5363 (capivasertib) in a mouse xenograft model of prostate cancer**
Manuela Zavatti, Ludovica Antolini, Valentina Serafin, Sandra Marmiroli
036. **Immunohistochemical evaluation of nerves and muscles in two tetraplegic patients undergoing upper limb nerve transfer surgery**
Matteo Bonetti, Luisa Monini, Lorena Giugno, Francesca Bonomini, Bruno Battiston, Rita Rezzani, Paolo Titolo, Andrea Lavorato, Elisa Borsani
037. **Long-term melatonin treatment in BTBR mice: a hippocampal perspective in autism spectrum disorder**
Elisa Borsani, Matteo Bonetti, Lorena Giugno, Francesca Bonomini
038. **Role of SOD-1/Nrf2 in the molecular events triggered by Complex Magnetic Fields application in an in vitro H₂O₂-stimulated endothelial cell model**
Alessia Ricci, Susi Zara, Viviana di Giacomo, Marialucia Gallorini, Monica Rapino, Natalia Di Pietro, Marco Mantarro, Adriano Piattelli, Amelia Cataldi

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