



Università degli Studi di
Messina



Società Italiana di
Anatomia e Istologia

71° CONGRESSO NAZIONALE



SOCIETÀ ITALIANA DI ANATOMIA E ISTOLOGIA



TAORMINA
2017

20 – 22 SETTEMBRE 2017

Sala della Chiesa

ore 09.00

Lettura Magistrale

Prof. Pura Muñoz-Cànoves (Universitat Pompeu Fabra, Barcelona, España)

“Understanding muscle stem cell regenerative decline with aging”

Moderatori: Roberto Di Primio, Eugenio Gaudio, Gigliola Sica

Sala della Chiesa

ore 10:30 – 13:30

Sessione 1: Anatomia Clinica I

Moderatori: Amelia Cataldi, Lucio Cocco, Lorenzo Fumagalli

Adaptive changes of telocytes in the urinary bladder of patients affected by neurogenic detrusor overactivity.

Chiara Traini, Maria-Simonetta Faussone-Pellegrini, Daniele Guasti, Giulio Del Popolo, Sergio Serni, Maria Giuliana Vannucchi (Firenze)

Insulin receptor-related receptor in the pancreas and in a β -cell line.

Igor E. Deyev, Oxana V. Serova, Andrey A. Mozhaev, Tatiana N. Erokhina, Mari Regoli, Alexander G. Petrenko, Eugenio Bertelli (Mosca, Siena)

The endocannabinoid anandamide inhibits colon cancer cell growth by modulating different survival and proliferating pathways.

Antonietta Santoro, Vanessa Nicolin, Maurizio Bifulco, Stefania L. Nori (Salerno, Trieste)

Role of CX₃CR1⁺ cell in the protection of the intestinal mucosa.

Angela L. Man, Mari Regoli, Gary Rowley, Nikolaus Wellner, Massimo Gulisano, Eugenio Bertelli, Claudio Nicoletti (Norwick, Siena, Firenze)

Nuclear DGK α regulates cell cycle progression in K562 cells.

Stefano Ratti, Alessandro Poli, Roberta Fiume, Lucia Manzoli, Sara Mongiorgi, Matilde Yung Follo
(Bologna, Milano)

Identification of an HSP90 modulated multi-step process for ERBB2 degradation in breast cancer cells.

Patrizia Castagnola, Grazia Bellese, Filippo Birocchi, Maria Cristina Gagliani, Carlo Tacchetti, Katia Cortese (Genova, Milano)

SH3BGRL3 binds myosin 1c and is involved in MDA-MB-231 cell migration.

Filippo Di Pisa, Elisa Pesenti, Maria Bono, Claudya Tenca, Andrea Scaloni, Silvia Bruno, Franco Fais, Paolo Scartezzini, Fabio Ghiotto (Genova, Napoli)

The innate immune cross talk between NK cells and eosinophils is regulated by the interaction of Natural Cytotoxicity Receptors with eosinophil surface ligands.

Silvia Pesce, Fredrik B. Thoren, Claudia Cantoni, Carola Prato, Lorenzo Moretta, Alessandro Moretta, Emanuela Marcenaro (Genova, Göteborg, Roma, Londra)

KIR3DS1-mediated recognition of HLA- \ast B51: modulation of KIR3DS1 responsiveness by self HLA-B allotypes and effect on NK cell licensing.

Simona Carlomagno, Michela Falco, Maria Bono, Lorenzo Moretta, Alessandro Moretta, Simona Sivori (Genova, Roma)

Sala Etna

ore 10:30 – 13:30

Sessione 2: Attività Motoria, Sport e Salute

Moderatori: Antonio Palma, Marco Vitale, Paolo Zeppilli

The Master athlete: an extraordinary physiological model of aging study, a delicate issue for cardiologists and sports physicians.

Paolo Zeppilli, Michela Cammarano, Sebastiano Orvieto, Vincenzo Palmieri (Roma)

Sarcopenia and muscle functions: the impact of aging and disuse.

Federico Schena, Fabio Naro, Carlo Reggiani, Massimo Venturelli (Verona, Roma, Padova)

A Multi-dimensional Research Approach to Support Youth Taekwondo Athletes.

Laura Capranca, Salvatore Chiodo, Francesco Tornello, Cristina Cortis, Giancarlo Condello, Corrado Lupo, Tessitore Antonio (Roma, Cassino, Torino)

Isolated quadriceps training restores whole body exercise capacity in CHF.

Fabio Esposito, Ralph Shabetai, Peter D. Wagner, Russell S. Richardson (Milano, San Diego, Salt Lake City)

Physical activity and sport performance: adiponectin in relation to different physio-pathological status.

Ersilia Nigro, Olga Scudiero, Ausilia Elce, Rita Polito, Maria Ludovica Monaco, Federica Zarrilli, Gaetano Corso, Giuseppe Castaldo, Aurora Daniele (Napoli, Caserta, Isernia, Foggia)

Stem cell differentiation for muscle regeneration.

Daniela Galli, Silvia Martini, Marco Vitale, Prisco Mirandola, Giuliana Gobbi (Parma)

Aerobic fitness protects from atherosclerotic cardiovascular risk paralympic athletes with a locomotor impairment.

Marco Bernardi, Fabiana Parisi, Loretta Corsi, Anna Sofia Delussu, Riccardo Lanzano, Federica Alviti, Maria Rosaria Squeo, Paolo Emilio Adami, Emanuele Guerra, Ludovico Magaudda, Antonio Spataro, Antonio Pelliccia (Roma, Modena, Messina)

Plasma redox response of Sicilian Opuntia Ficus Indica juice in young physically active women.

Marianna Bellafiore, Anna Maria Pintaudi, Angelo Cataldo, Dario Cerasola, Alessandro Attanzio, Giuseppe Battaglia, Antonino Bianco, Antonio Palma (Palermo)

Aerobic training improves angiogenic potential independently of VEGF modifications in postmenopausal woman.

Angela Di Baldassarre, Pascal Izzicupo, Barbara Ghinassi, Maria Angela D'Amico, Fabio Nakamura (Chieti-Pescara)

Sala della Sagrestia

ore 10:30 – 12:00

Simposio: Nuove Metodologie Didattiche nella Morfologia

*Moderatori: Raffaele De Caro, Giuseppe Familiari,
Sergio Morini, Sandra Zecchi Orlandini*

The open body: a “new” book.

Lucia Manzoli, Anna Maria Billi, Mirella Falconi, Lucio Cocco (Bologna)

The functional neuroanatomy resource (FNAR) at Weill Cornell Medicine.

Estomih P. Mtui, Santosh K. Sangari, Rosalinda G. Guce, Martin Hamburg, Michele Fuortes, Rachel Koshi (New York)

Morphology on the cloud - Virtual Campus, an integrated didactic platform for biomedical studies.

Giuseppe Anastasi, Demetrio Milardi, Angelo Favalaro, Giancarlo Ceresetti, Simona Corso, Antonio Esposito, Nicoletta Gagliano, Carla Martinelli, Maurizio Vertemati, Daniela Zarcone, Paolo Govoni, Antonio Zicca, Sergio Castorina, Raffaele de Caro, Massimo De Felici, Guido Macchiarelli, Domenico Ribatti, Chiarella Sforza, Nadir M. Maraldi, Carlo Tacchetti (Messina, Milano, Torino, Genova, Parma, Catania, Padova, Roma, L'Aquila, Bari, Bologna)

Student learning performance in human anatomy using a virtual dissection table.

Guido Macchiarelli, Sara Bernardi, Maria Adelaide Continenza, Jasmine Di Biasi, Maria Grazia Palmerini, Serena Bianchi (L'Aquila)

Interuniversity management support for learning verification based on multi-choice quiz-questions.

Virgilio Ferruccio Ferrario (Milano)

Does the experience of anatomical dissections change the mind of students? The opinion of Milanese undergraduate students towards the donation of bodies for didactic purposes.

Daniele Gibelli, Virgilio F. Ferrario, Claudia Dolci, Chiarella Sforza (Milano)

Sala della Sagrestia

ore 12:00 – 13:30

**Sessione 3: Apparato Stomatognatico - Storia e Didattica
dell'Anatomia e dell'Istologia**

Moderatori: Alessandro Riva, Paolo Romagnoli, Paola Sirigu

3D morphometric evaluation of the face in Marfan syndrome: a better definition of dysmorphic features.

Claudia Dolci, Valentina Pucciarelli, Virgilio F. Ferrario, Daniele Gibelli, Susan Marelli, Giuliana Trifirò, Alessandro Pini (Milano)

Stereophotogrammetric assessment of the smiling capability after facial reanimation surgery.

Valentina Pucciarelli, Emanuela Ulaj, Filippo Tarabbia, Daniele Gibelli, Federico Biglioli, Chiarella Sforza (Milano)

Diffusion Tensor Imaging (DTI) in Head and Neck Oncology; a new method of Virtual Biopsy.

Alessandro Calvo, Michele Runci Anastasi, Antonio Duca, Giuseppe Anastasi, Demetrio Milardi, Francesco Saverio De Ponte (Messina)

Training the "clinical eye". Rubens' Three Graces: how many pathologies?

Rosemarie Heyn, Patrizia Cosenza, Giuseppe Familiari, Vassilios Pappaspyropoulos (Roma)

The evolution of Clemente Susini's anatomical iconography from his beginnings at La Specola waxwork to his artistic maturity, as seen in the collection of Cagliari.

Alessandro Riva, Francesco Loy (Cagliari)

Anatomical theatre place of Knowledge – the pivotal role of anatomist in its realization.

Emanuele Armocida, Alessandro Ruggeri (Parma, Bologna)

Sala della Chiesa

ore 14:30 – 17:15

Sessione 4: Neurobiologia e Neuroanatomia*Moderatori: Francesco Amenta, Anna Rita Migliaccio, Fabrizio Michetti***A preliminary report on the characterization of epiretinal membranes excised from patients affected by macular pucker.***Marco Tosi, Mari Regoli, Eugenio Bertelli (Siena)***Effects of the endoplasmic reticulum signaling pathway on cadmium-induced impairment of the blood brain barrier.***Jacopo J. V. Branca, Mario Maresca, Gabriele Morucci, Ferdinando Paternostro, Lorenzo Di Cesare Mannelli, Massimo Gulisano, Alessandra Pacini (Firenze)***Effect of NAP in diabetic retinopathy.***Agata Grazia D'Amico, Grazia Maugeri, Daniela Rasà, Velia D'Agata (Roma, Catania)***Specific ablation of phospholipase C γ 1 in forebrain causes manic-like behavior.***Pann-Ghill Suh, Stefano Ratti, Sara Mongiorgi, Matilde Y. Follo, Lucio Cocco (Bologna, Ulsan)***Degeneration and regeneration of peripheral nerves: role of thrombin and its receptor PAR-1.***Cinzia Fabrizi, Elena Pompili, Viviana Ciraci, Stefano Leone, Marco Artico, Bruno Maras, Maria Eugenia Schininà, Lorenzo Fumagalli (Roma)***Nerve growth factor promotes primary cilium assembly in cholinergic neurons from the human basal forebrain.***Erica Sarchielli, Giulia Guarnieri, Paolo Comeglio, Pasquale Gallina, Gabriella B. Vannelli, Annamaria Morelli (Firenze)***The novel organelle autophagoproteasome is recruited to limit methamphetamine toxicity.***Gloria Lazzeri, Marco Gesi, Gianfranco Natale, Riccardo Ruffoli, Francesco Fornai (Pisa, Pozzilli)***The hidden geometry of the brain.***Alberto Cacciola, Carlo Vittorio Cannistraci, Alessandro Muscoloni, Vaibhav Narula, Salvatore Nigro, Aldo Quattrone, Emeran M. Mayer, Jennifer S. Labus, Silvia Marino, Michele Gaeta, Giuseppe Anastasi (Messina, Dresda, Catanzaro, Los Angeles)*

In-vivo anatomical reconstruction of the optic radiations in the human brain.

Demetrio Milardi, Fabio Trimarchi, Alessandro Arrigo, Alessandro Calamuneri, Angelo Quartarone, Giuseppe Santoro, Giuseppina Rizzo, Grazia Giulia Pantè, Alba Migliorato, Salvatore Bertino (Messina, Milano)

Spinal cord pathology during chronic exposure to MPTP in mice.

Giorgio Vivacqua, Simone Iannacone, Francesca Biagioni, Simone Carotti, Shun Yu, Sergio Morini, Francesco Fornai (Roma, Isernia, Beijing, Pisa)

Endothelial cells are key-players in pilocarpine-induced epileptogenesis.

Beatrice Mihaela Radu, Eda Suku, Grygoriy Tsenov, Flavia Merigo, Petr Kacer, Alejandro Giorgetti, Mihai Radu, Giuseppe Bertini, Paolo Francesco Fabene (Verona, Klecany, Bucharest, Magurele)

The cerebellum-periaqueductal gray connectivity: a constrained spherical deconvolution tractography study.

Salvatore Bertino, Alberto Cacciola, Gianpaolo Basile, Giuseppe Santoro, Maria Righi, Daniele Bruschetta, Giovanna Vermiglio, Giuseppina Cutroneo (Messina)

Synaptic stripping and MHC class I expression in the facial motor nucleus of ALS mice.

Raffaella Mariotti, Roman M. Kassa, Roberta Bonafede, Federico Boschi, Manuela Malatesta, Marina Bentivoglio (Verona, Lexington)

Converging orexinergic and reticular thalamic inputs on thalamic paraventricular neurons in normal conditions and experimental sleeping sickness.

Giuseppe Bertini, Erika Lorenzetto, Claudia Laperchia, Marina Bentivoglio (Verona, Lausanne)

The neglected non-traditional large neuron types in the granular layer of the cerebellar cortex: Morphofunctional and Neurochemical data

Paolo Flace (Bari)

Sala Etna

ore 14:30 – 17:15

**Sessione 5: Scienze del Movimento – Tessuto Muscolare e
Tessuto Connettivo**

*Moderatori: Sergio Adamo, Francesco Fornai, Paolo Onori***Exercise and nutrition effects on cartilage degenerative disorders.***Marta Anna Szychlinska, Francesca Maria Trovato, Paola Castrogiovanni, Rossella Imbesi, Michelino Di Rosa, Carla Loreto, Sergio Castorina, Giuseppe Musumeci (Catania)***Effects of physical exercise on Body Mass Index in Binge Eating Disorder.***Letizia Galasso, Cristiana Pesenti, Antonino Mulè, Eleonora Bruno, Andrea Caumo, Eliana Roveda, Angela Montaruli (Milano)***An 8-week rehabilitation training using the HBP exoskeleton improves cognitive brain functions in multiple sclerosis patients.***Maurizio Ripani, Antonello Ciccarelli, Giuliana Lucci, Marika Berchicci, Maria Grazia Grasso, Stefano Paolucci, Sabrina Pitzalis, Carlotta Oro Nobili, Francesco Di Russo (Roma)***Effects of a physical activity program on functional fitness, oxidative stress and salivary cortisol levels in older adults.***Gabriele Morucci, Jacopo J. V. Branca, Ferdinando Paternostro, Alessandra Modesti, Alessandra Pacini, Simone Pratesi, Massimo Gulisano (Firenze)***Effects of running technique training on game-related sprint tests in 10-year soccer players.***Corrado Lupo, Mattia Varalda, Antonio Tessitore (Torino, Roma)***Hippotherapy improves gait and balance in Down Syndrome.***Antonio Duca, Placido Bramanti, Alba Migliorato, Antonio Centofanti, Simona Portaro (Messina)***Does pelvic incidence influence the morphology of the sacroiliac joint?***Giorgio Cacciola, Federico De Meo, Angelo Favalaro, Alessandro Pisani, Piero Cavaliere, Andrea Barbanera, Elena Filippini, Carmelo Milazzo, Debora Di Mauro (Messina, Alessandria)*

Physical activity modifies skeletal muscle fiber types in an animal model of metabolic syndrome.

Erica Sarchielli, Giulia Guarnieri, Sandra Filippi, Paolo Comeglio, Gabriella B. Vannelli, Annamaria Morelli (Firenze)

Fasciocytes: specialized fibroblast-like cells that secrete the hyaluronan-rich matrix in fascial tissue.

Carla Stecco, Caterina Fede, Lucia Petrelli, Carolo Biz, Veronica Macchi, Robert Stern, Raffaele De Caro (Padova, New York)

IPMK and β -catenin take part in PLC- β 1-dependent signaling pathway during myogenic differentiation.

Giulia Ramazzotti, Irene Faenza, Anna Maria Billi, Stefano Ratti, Lucia Manzoli (Bologna)

Treatment with r-irisin prevents and recovers disuse-induced bone loss and muscle atrophy.

Graziana Colaianni, Luciana Lippo, Paolo Pignataro, Lorenzo Sanesi, Ilenia Severi, Giacomina Brunetti, Giorgio Mori, Silvia Colucci, Janne Reseland, Saverio Cinti, Maria Grano (Bari, Ancona, Foggia, Oslo)

Ultrastructural modifications of human meniscus under different conditions.

Michela Battistelli, Marta Favero, Giovanni Trisolino, Dante Dallari, Giuseppe Filardo, Brunella Grigolo, Elisabetta Falcieri, Eleonora Olivotto (Urbino, Padova, Bologna)

Morpho-functional approaches to highlight skeletal muscle response to cell death inducers.

Sara Salucci, Sabrina Burattini, Michela Battistelli, Davide Curzi, Elisabetta Falcieri (Urbino)

Transmural remodelling of colonic wall following dopaminergic nigrostriatal neurodegeneration.

Chiara Ippolito, Cristina Segnani, Sauro Dini, Carolina Pellegrini, Matteo Fornai, Giovanna Levandis, Fabio Blandini, Mariella Errede, Daniela Virgintino, Corrado Blandizzi, Amelio Dolfi, Nunzia Bernardini (Pisa, Pavia, Bari)

Sala della Sagrestia

ore 14:30 – 17:15

Simposio: Anatomia Clinica Forense*Moderatori: Raffaele De Caro, Mirella Falconi, Andrea Montella***Scanning Electron Microscopy in forensic investigations: more views from more applications.***Petra Basso, Marcella Reguzzoni, Marina Protasoni, Terenzio Congiu, Daniela Quacci (Varese, Cagliari)***Morphological and immunoistochemical evaluation of cadaveric gingival specimens to estimate the post-mortem interval.***Mirella Falconi, Paolo Fais, Lucia Manzoli, Gabriella Teti, Maria Carla Mazzotti, Susi Pelotti (Bologna)***The Mediterranean shipwreck of April 18 2015: challenges in the postmortem examination of the victims.***Alessio Asmundo, Cristina Cattaneo, Nunziata Barbera, Antonella Argo, Vittorio Piscitelli (Messina, Milano, Catania, Palermo)***Forensic clinical anatomy of spine in child abuse.***Andrea Porzionato, Veronica Macchi, Aldo Morra, Anna Rambaldo, Maria M. Sfriso, Martina Contran, Raffaele De Caro (Padova, Albignasego)***Post mortem computed tomography of heart.***Veronica Macchi, Andrea Porzionato, Aldo Morra, Cinzia Tortorella, Raffaele De Caro (Padova)***Morphological study of a mummified heart dated back to 1829: preliminary results.***Alessio Pirino, Pasquale Bandiera, Gino Fornaciari, Giancarlo Zichi, Eugenia Tognotti, Andrea Montella (Sassari, Pisa)***Osteological markers of malaria.***Rita Maria Serra, Valeria Pomponi, Giuseppe Manzoni, Eugenia Tognotti, Maria Alessandra Sotgiu, Andrea Montella, Pasquale Bandiera (Sassari)*

A contribution to the gross anatomy of human extra-hepatic bile ducts with multi slice computed tomography.

Sergio Castorina, Tonia Luca, Giovanna Privitera, Vincenzo Riccioli, Giuseppe Musumeci, Carla Loreto (Catania)

Cutaneous changes in varicose legs with normal skin appearance.

Alberto Caggiati (Roma)

Was it a fatal whiplash injury or not? Clinical forensic anatomy: a key to shed light on a case.

Monica Salerno, Cristoforo Pomara (Msida, Foggia)

Sala della Chiesa

ore 17:30 – 19:00

Sessione 6: Anatomia Clinica II

*Moderatori: Lucia Manzoli, Beatrice Nico, Carlo Tacchetti,***Assessing the precision of posttraumatic orbital reconstruction through 3D-3D “mirror” orbital superimposition: 3D surface point-to-point distance versus volume.***Daniele Gibelli, Alberto Tagliaferri, Giulia Andrea Guidugli, Alberto Bozzetti, Davide Sozzi, Chiarella Sforza (Milano)***An anatomico-radiological study of the infrapatellar fat pad.***Veronica Macchi, Andrea Porzionato, Carla Stecco, Cinzia Tortorella, Gloria Sarasin, Chiara Giulia Fontanella, Arturo Natali, Raffaele De Caro (Padova)***An anatomico-radiological study of the renal segments.***Edgardo Enrico Edoardo Picardi, Veronica Macchi, Andrea Porzionato, Vincenzo Ficarra, Raffaele De Caro (Padova, Udine)***Unexpected effects of biphosphonates in *in vitro* models of activated CLL cells.***Elena Gugliatti, Claudya Tenca, Fabio Ghiotto, Serena Matis, Daniele Reverberi, Giovanna Cutrona, Davide Bagnara, Andrea Nicola Mazzarello, Silvia Ravera, Adalberto Ibatici, Ermanno Ciccone, Franco Fais, Silvia Bruno (Genova, Manhasset)***Knockdown of hepatic GnRH reduces liver fibrosis in a mouse model of PSC.***Romina Mancinelli, Paolo Onori, Antonio Franchitto, Heather Francis, Julie Venter, Gianfranco Alpini, Eugenio Gaudio (Roma, Temple)*

Sala Etna

ore 17:30 – 19:00

Sessione 7: Tecnologie Innovative e Modelli Sperimentali

*Moderatori: Elisabetta Falcieri, Antonio Filippini, Stefania Montagnani***Effects of acetylsalicylic acid on adiposity in a mouse model of diet-induced obesity.***Michele Sommariva, Claudia Sardi, Daniele Gibelli, Marinos Kallikourdis, Cristiano Rumio (Milano)***Synchrotron-based technique: a new high resolution imaging of nervous system.***Giacomo Barbone, Cecilia Ceresa, Marianna Monfrini, Marina Eckermann, Alessia Chiorazzi, Annalisa Canta, Mario Bossi, Alberto Mittonne, Alberto Bravin, Paola Coan, Paola Parlanti, Roberta Rigolio, Valentina Cappello, Mauro Gemmi, Paola Marmiroli, Guido Cavaletti (Monaco, Milano-Bicocca, Milano, Grenoble, Pisa)***A novel approach to the assessment of anatomical uniqueness of ears: application of 3D-3D surface registration.***Daniele Gibelli, Valentina Pucciarelli, Giulia Fornarelli, Alice Loviglio, Claudia Dolci, Chiarella Sforza (Milano)***FE-SEM and VP-SEM imaging of human calcified aortic valves: conventional vs Ionic Liquid innovative techniques.***Michela Relucenti, Selenia Miglietta, Ezio Battaglione, Roberto Matassa, Elena Cavarretta, Adriana Maras, Loris Salvador, Giuseppe Familiari (Roma, Vicenza)***Morphological characterization of a dietary challenged Sirtuin 1 heterozygous mice.***Alessandra Stacchiotti, Raquel Garcia-Gomez, Antonio Lavazza, Maria Monsalve, Francesca Bonomini (Brescia, Madrid)***Effects of melatonin oral treatment in pristane-induced lupus nephritis mice.***Gaia Favero, Mariane dos Santos, Claudio Lonati, Alessandra Stacchiotti, Rita Rezzani (Brescia)***Histomorphological analysis of the colonic barrier in a mouse model of obesity.***Chiara Ippolito, Cristina Segnani, Sauro Dini, Daniela Gentile, Luca Antonioli, Corrado Blandizzi, Amelio Dolfi, Nunzia Bernardini (Pisa)*

Sala della Sagrestia

ore 17:30 – 19:00

Sessione 8: Istogenesi, Differenziamento e Biologia Molecolare

Moderatori: Saverio Cinti, Carla Palumbo, Rosa Alba Rana

Chitotriosidase expression in monocyte-derived dendritic cells.

Michelino Di Rosa, Paola Castrogiovanni, Giuseppe Musumeci, Daniele Tibullo, Salvatore Saccone, Anna Maria Longo, Daniela Cambria, Marta Anna Szychlinska, Lucia Malaguarnera, Rosa Imbesi (Catania)

The thrombopoietin/MPL axis is activated in the *Gata1*low mouse model of myelofibrosis and is associated with a defective RPS14 signature.

Maria Zingariello, Laura Sancillo, Fabrizio Martelli, Rosa Alba Rana, Anna Rita Migliaccio (Roma, Chieti-Pescara, New York, Bologna)

The pink adipocytes.

Saverio Cinti (Ancona)

Role of Stearoyl-CoA Desaturase 1 and 5 in breast cancer cell migration and survival.

Cristiana Angelucci, Alessio D'Alessio, Gabriella Proietti, Riccardo Masetti, Gigliola Sica (Roma)

Hepatic Lysosomal Acid Lipase and lipophagy in the progression of NAFLD.

Simone Carotti, Francesco Valentini, Umberto Vespasiani-Gentilucci, Maria Zingariello, Francesca Zalfa, Maria Francesconi, Antonio Picardi, Sergio Morini (Roma)

Sarcoglycan sub-complex in the adipose organ: a molecular and immunofluorescence study.

Saverio Cinti, Giuseppina Rizzo, Giovanna Vermiglio, Cecilia Spoto, Antonio Centofanti, Giuseppina Cutroneo (Ancona, Messina)

Primary vaginal leiomyosarcoma, a rare tumour: case report and review.

Rosemarie Heyn, Giacomo Corrado, Ezio Battaglione, Enrico Vizza (Roma)

Pentose phosphate pathway inhibition induce Endoplasmic Reticulum stress and autophagy.

Luigi Mele, Francesca Paino, Tarik Regad, Paola Stiuso, Angela Lombardi, Davide Liccardo, Marcella La Noce, Gianpaolo Papaccio, Michele Caraglia, Virginia Tirino, Vincenzo Desiderio (Napoli, Nottingham)

Sala della Chiesa

ore 09.00

Lettura Magistrale**“The good and bad of ERBB receptors in breast – quando viniti mi s’allarga lu cori, ma quando vinni iti puru”.**

Prof. Carlo Tacchetti (Università San Raffaele Vita e Salute, Milano)

Moderatori: Saverio Cinti, Lucia Manzoli, Gianpaolo Papaccio

Sala della Chiesa

ore 10:30 – 13:30

**Sessione 9: Cellule Staminali e Ingegneria Tissutale -
Riproduzione e Sviluppo***Moderatori: Silvano Capitani, Amelio Dolfi, Gigliola Sica***Hepatic stem/progenitor cell activation differs between primary sclerosing and primary biliary cholangitis.***Guido Carpino, Antonio Franchitto, Vincenzo Cardinale, Trine Folseraas, Diletta Overi, Tom Karlsen, Domenico Alvaro, Eugenio Gaudio (Roma, Oslo)***Stem Cells as a source to produce Red Blood Cells in vitro for Transfusion.***Anna Rita Migliaccio (New York, Bologna)***Generation of induced pluripotent stem cells from patients with Duchenne Muscular Dystrophy and their induction to neurons.***Tiziana Annese, Simona Ruggieri, Luigi Viggiano, Carmela Rubolino, Andrea Gerbino, Patrizia Corsi, Roberto Tamma, Domenico Ribatti, Francesca Operto, Lucia Margari, Beatrice Nico (Bari)***Three dimensional sphere culture system enhances neural crest-related properties of a sub-population of human dental pulp stem cells expressing STRO-1, c-Kit and CD34 markers.***Alessandra Pisciotta, Laura Bertoni, Jonathan Mapelli, Albertino Bigiani, Monia Orciani, Marcella La Noce, Anto de Pol, Gianluca Carnevale (Modena e Reggio Emilia, Ancona, Napoli)***Engineered vesicles from gingival stem cells: a new approach in 3D printed bone tissue regeneration.***Francesca Diomede, Sabrina Giacoppo, Iaria Merciaro, Paolo Cardelli, Placido Bramanti, Antonella Fontana, Emanuela Mazzon, Oriana Trubiani (Chieti-Pescara, Messina)*

Mesenchymal stem cell-based tissue engineering strategy for cartilage regeneration: A morphomolecular study.

Marta Anna Szychlinska, Paola Castrogiovanni, Rossella Imbesi, Michelino Di Rosa, Salvatore Giunta, Carla Loreto, Sergio Castorina, Giuseppe Musumeci (Catania)

Cancer stem cells from peritumoral tissue of glioblastoma multiforme: the possible link between tumor development and progression.

Alessio D'Alessio, Cristiana Angelucci, Elena Binda, Annunziato Mangiola, Gabriella Proietti, Laura Masuelli, Barbara Fazi, Silvia Anna Ciafrè, Gina Lama (Roma, Foggia)

Levetiracetam enhances the Temozolomide effect on glioblastoma stem cell proliferation.

Bianca Maria Scicchitano, Silvia Sorrentino, Gina Lama, Gigliola Sica (Roma)

In vitro and in vivo study of a novel biodegradable synthetic conduit for injured peripheral nerves.

Andrea Porzionato, Elena Stocco, Lucia Petrelli, Cesare Tiengo, Silvia Barbon, Martina Contran, Veronica Macchi, Pier Paolo Parnigotto, Raffaele De Caro, Claudio Grandi (Padova)

VEGF-induced intracellular Ca²⁺ oscillations are weaker and do not stimulate proliferation in tumor-derived endothelial colony forming cells.

Germano Guerra, Francesco Lodola, Umberto Laforenza, Fabio Cattaneo, Valentina Poletto, Estella Zuccolo, Marco Biggiogera, Vittorio Rosti, Domenico Tafuri, Francesco Moccia (Campobasso, Pavia, Napoli)

Human adipose stem cell differentiation is highly affected by cancer cells both in vitro and in vivo: implication for autologous fat grafting.

Francesca Paino, Marcella La Noce, Diego Di Nucci, Gianfranco Nicoletti, Rosa Salzillo, Alfredo De Rosa, Giuseppe Andrea Ferraro, Gianpaolo Papaccio, Vincenzo Desiderio, Virginia Tirino (Napoli)

Effects of in-vitro application of pentoxifylline on the morphology of human spermatozoa after vitrification in asthenozoospermic patients.

Selenia Miglietta, Mohammad A. Khalili, Ali Nabi, Ali Reza Talebi, Esmat Mangoli, Nahid Yari, Guido Macchiarelli, Giuseppe Familiari, Stefania A. Nottola (Roma, Yazd, L'Aquila)

Human trophoblast differentiation: possible role for trophoblast cell surface antigen 2.

Caterina Licini, Chiara Avellini, Giovanni Tossetta, Nicoletta Di Simone, Mario Castellucci, Daniela Marzioni (Ancona, Roma)

Sala Etna

ore 10:30 – 13:30

Sessione 10: Anatomia Clinica III*Moderatori: Guido Macchiarelli, Sebastiano Miscia, Domenico Ribatti***A reversible carnitine palmitoyltransferase I (CPT1) inhibitor offsets chronic lymphocytic leukemia cell proliferation.***Elena Gugiatti, Claudya Tenca, Silvia Ravera, Fabio Ghiotto, Giovanna Cutrona, Adalberto Ibatici, Ermanno Ciccone, Franco Fais, Silvia Bruno (Genova)***Clusterin enhances migration and invasion of prostate cancer cells through an isoform-specific Akt2/miR-190/PHLPP1 circuit.***Jessika Bertacchini, Marianna Guida, Laura Mediani, Aram Ghalali, Francesco Poti', Jessica Arioli, Federica Brugnoli, Valeria Bertagnolo, Francesca Beretti, Lucio Cocco, Silvano Capitani, Carla Palumbo, Sandra Marmiroli (Modena e Reggio Emilia, Stoccolma, Parma, Ferrara, Bologna)***Modulation of MMP-2 function in bone marrow mesenchymal stromal cells requires sphingosine 1-phosphate receptor 1 mediated signaling: implications for cytoskeletal assembly and proliferation.***Sandra Zecchi-Orlandini, Elisabetta Meacci, Alessia Tani, Flaminia Chellini, Daniele Nosi, Federica Pierucci, Alessia Frati, Francesca Matteini, Ambra Vestri, Chiara Sassoli (Firenze)***PI3K α -selective inhibitor alpelisib (BYL719) may be effective as anticancer agents in Rhabdomyosarcoma.***Alberto Bavelloni, Manuela Piazzì, Giulia Ramazzotti, Roberta Fiume, William Blalock, Irene Faenza (Bologna)***A proinflammatory microenvironment induces NF κ B activation and beta-defensin expression through specific Toll Like Receptors in a 3D human skin model.***Elena Donetti, Laura Cornaghi, Francesco Carriero, Francesca Arnaboldi, Franz Baruffaldi Preis, Francesca Prignano (Milano, Firenze)*

E-cigarettes fluids trigger molecular and morphological response in oral fibroblasts.

Laura Sancillo, Maria Zingariello, Valentina Di Valerio, Amelia Cataldi, Rosa Alba Rana, Silvia Sancilio (Chieti- Pescara, Roma)

Morphological analysis of JAK1 intracellular pathway activation after pro-inflammatory psoriatic cytokines exposure: inside-out and outside-in the epidermis.

Laura Cornaghi, Franz William Baruffaldi Preis, Elena Donetti, Francesca Prignano (Milano, Firenze)

Microenvironment regulation of the IL-23R/IL-23 axis overrides chronic lymphocytic leukemia indolence.

Giovanna Cutrona, Claudio Tripodo, Serena Matis, Monica Colombo, Marina Fabbi, Adalberto Ibatici, Daniela de Toterò, Fortunato Morabito, Manlio Ferrarini, Franco Fais (Genova, Palermo)

Sala della Sagrestia

ore 10:30 – 13:30

**Simposio: Nuovi Approcci alle Scienze del Movimento: dalla
Postura alla Robotica attraverso la Realtà Virtuale**

*Moderatori: Placido Bramanti, Angela Di Baldassarre,
Massimo Gulisano, Chiarella Sforza*

Posture as a model of mechanosensitivity: the “Biotensegrity”.

Raoul Saggini (Chieti-Pescara)

Clinical applications of genome anthropology.

Felice Festa, Monica Macrì (Chieti)

The role of virtual reality in improving gait abnormalities.

Rocco Salvatore Calabrò, Alessia Bramanti, Ludovico Magaudda (Messina)

**Motor recovery after stroke: the role of overground exoskeletons in shaping
brain plasticity.**

Antonino Naro, Alessia Bramanti, Placido Bramanti, Rocco Salvatore Calabrò (Messina)

Evidence for muscle synergies from virtual surgeries.

Andrea d'Avella (Messina)

Abside della Chiesa

ore 14:30 – 16:00

Sessione Poster

*Moderatori: Vincenzo Cimini, Amelio Dolfi, Maria Grano, Luigi Rodella***ANATOMIA CLINICA**

- 1. Symmetry of zygomatic bone through 3D segmentation on CT-scan and “mirroring” procedure: a novel approach for reconstructive maxillofacial surgery.**

Michele Sommariva, Daniele Gibelli, Michaela Cellina, Stefano Gibelli, Nicoletta Gagliano, Antonio Giancarlo Oliva, Giovanni Termine, Virgilio F Ferrario, Chiarella Sforza (Milano)

- 2. Investigation of human cadavers: one year of anatomic variants and their clinical correlation.**

Francesca A. Pedrini, Lucia Manzoli, Giulia A. Mariani, Ester Orsini, Marilisa Quaranta, Stefano Ratti, Anna Maria Billi (Bologna)

- 3. Popliteal Artery Entrapment Syndrome (PAES) and Ankle-Brachial Index (ABI), any association?**

Felice Sirico, Veronica Baiocco, Eduardo Capuano, Umberto C. Ferrari, Francesco Gambardella, Stefania Montagnani (Napoli)

- 4. Musculocutaneous nerve variations. Meta-analysis of proportions and proposal for categorization.**

Felice Sirico, Veronica Baiocco, Nastasia Marino, Marcello Zappia, Stefania Montagnani (Napoli, Campobasso)

- 5. Rectus femoris proximal insertion anatomy - analysis of the clinically relevant anatomy and variations.**

Annunziata Cerrone, Manuel Tuzi, Aldo Postiglione, Felice Sirico, Franca Di Meglio, Clotilde Castaldo, Stefania Montagnani (Napoli)

6. **The internal thoracic vein for the breast and thoracic surgical reconstruction: anatomy of the valves.**
Barbara Buffoli, Vittoria Gabusi, Gianpaolo Faini, Elisa Borsani, Lena Hirtler, Manfred Tschabitscher, Mauro Labanca, Arianna Coniglio, Luigi Fabrizio Rodella (Brescia, Vienna)
7. **Sternal foramina: anatomy and clinical significance.**
Massimo Guarna, Margherita Aglianò, Nila Volpi, Paola Lorenzoni, Daniel Franci, Francesca Vannozzi (Siena)
8. **Post-traumatic taste disorders: presentation of three meaningful cases.**
Maria Paola Cecchini, Nicolò Cardobi, Andrea Sbarbati, Salvatore Monaco, Michele Tinazzi, Stefano Tamburin (Verona, Peschiera del Garda)
9. **Extracellular matrix components affect cell migration and invasive potential of cultured human pancreatic ductal adenocarcinoma cells.**
Nicoletta Gagliano, Michele Sommariva, Claudia Moscheni, Eleonora Liguori, Federica Cazzaniga, Patrizia Sartori, Patrizia Procacci (Milano)
10. **Characterization of an *in vitro* model to study the role of human Polyomavirus BK in prostate cancer.**
Nicoletta Gagliano, Sonia Villani, Patrizia Sartori, Michele Sommariva, Claudia Moscheni, Pasquale Ferrante, Patrizia Procacci, Serena Delbue (Milano)
11. **Expression and localization of CHI3L1 in monocyte derived dendritic cells.**
Michelino Di Rosa, Paola Castrogiovanni, Giuseppe Musumeci, Daniele Tibullo, Salvatore Saccone, Anna Maria Longo, Daniela Cambria, Marta Anna Szychlinska, Lucia Malaguarnera, Rosa Imbesi (Catania)
12. **Role of associated adherent-invasive Escherichia Coli in Crohn's disease.**
Angelica Perna, Angela Lucariello, Vera Rotondi Aufiero, Iolanda Agliata, Gaetano Iaquinto, Giuseppe Mazzarella, Germano Guerra, Antonio De Luca (Napoli, Avellino, Campobasso)
13. **Effects of treatment with anti-HIV drugs on ovarian cell line.**
Angela Lucariello, Angelica Perna, Carmine Sellitto, Iolanda Agliata, Luigi Cobellis, Germano Guerra, Maria De Falco, Antonio De Luca (Napoli, Campobasso)

14. LPS-stimulated human macrophages displayed sex differences in estrogen receptors α and β .

Ilaria Campesi, Maria Marino, Flavia Franconi, Andrea Montella (Sassari, Roma, Potenza)

15. Osteocytes signaling events induced by intermittent vs continuous Teriparatide treatment affect *in vitro* osteoblast differentiation and mineralization.

Jessika Bertacchini, Alberto Smargiassi, Marta Checchi, Elena Tenedini, Giuliana Montosi, Jonathan Vinet, Marzia Ferretti, Carla Palumbo (Modena e Reggio Emilia)

16. Pb effects on an experimental model of porcine prepubertal Sertoli cells.

Francesca Mancuso, Cinzia Lilli, Catia Bellucci, Maria Bodo, Maria Chiara Aglietti, Mario Calvitti, Iva Arato, Marco Dell'Omo, Claudio Nastruzzi, Riccardo Calafiore, Giovanni Luca, Lorella Marinucci (Perugia, Ferrara, Terni)

17. Platelet gene expression profile in acute myocardial infarction.

Cecilia Carubbi, Elena Masselli, Guidantonio Malagoli Tagliazucchi, Prisco Mirandola, Giulia Pozzi, Diego Ardissino, Giuliana Gobbi, Marco Vitale (Parma)

18. Cancer stem cells and miRNA in the early diagnosis of colorectal carcinoma.

Cristiano Farace, Marina Serra, Andrea Pisano, Riccardo Oggiano, Carmen Griñan, Gema Jiménez González, Juan Antonio Marchal, Andrea Montella, Roberto Madeddu (Sassari, Granada)

19. Low oxygen availability and malignant evolution of non-invasive breast tumors: potential protective role of all-trans retinoic acid (ATRA).

Yasamin Al-Kassab, Silvia Grassilli, Federica Bruognoli, Federica Vezzali, Silvano Capitani, Valeria Bertagnolo (Ferrara)

20. Possible autophagy induction in Vernal Keratoconjunctivitis via Tumor Necrosis Factor Alpha stimulation.

Elena Tarricone, Andrea Leonardi, Antonino Di Stefano, Saeid Ghavami, Paola Brun (Padova, Veruno, Winnipeg, Shiraz)

21. Ultrastructural analysis reveals differences in the secretory activity among four regions of amniotic membrane.

Francesca Passaretta, Lucia Centurione, Maria Antonietta Centurione, Mariangela Basile, Nicoletta Zini, Roberta Di Pietro (Chieti-Pescara, Bologna)

APPARATO STOMATOGNATICO

22. Histomorphometrical evaluation of cells and tissues in contact with a new anti-wear dental implant surface: Bioloy® coating.

Elena Canciani, Emanuela Galliera, Monica Marazzi, Gianluca Mondella, Daniel Karang, Daniele Graziano, Andrea Oliveira, Claudia Dellavia (Milano)

23. Histomorphometrical evaluation of the effects of Aminogam® gel in oral healing process of post-surgical soft tissue.

Nataliya Khomchyna, Riccardo Sirello, Elena Canciani, Marilisa Toma, Gaia Pellegrini, Daniela Carmagnola, Dolaji Henin, Claudia Dellavia (Milano)

24. 3D stereophotogrammetric facial analysis of SMAII patients.

Valentina Pucciarelli, Chiara Mastella, Simona Bertoli, Katia Alberti, Ramona De Amicis, Alberto Battezzati, Giovanni Baranello, Chiarella Sforza (Milano)

25. P53 and VEGF expression in human temporomandibular joint discs with internal derangement correlate with degeneration.

Claudia Lombardo, Rosalia Leonardi, Paola Castrogiovanni, Giuseppe Musumeci, Luis Eduardo Almeida, Sergio Castorina (Catania, Milwaukee)

26. Pattern and distribution of extracellular matrix proteins in human reparative dentin by an immunohistochemical approach.

Desirèe Martini, Maria Menetti, Mirella Falconi, Annalisa Mazzoni, Lorenzo Breschi, Alessandra Ruggeri (Bologna)

27. How to pinpoint the greater palatine foramen: a metrical analysis applied to a contemporary skeletal collection.

Claudia Dolci, Daniele Gibelli, Alessia Borlando, Valentina Pucciarelli, Gianluca Martino Tartaglia, Cristina Cattaneo, Chiarella Sforza (Milano)

BIOLOGIA CELLULARE E MOLECOLARE

28. **Neuronal antibodies and brain alterations in APECED patients.**
Giulia Corda, Antonella Meloni, Luca Saba, Stefano Mariotti, Gian-Luca Ferri, Cristina Cocco (Cagliari)
29. **Vascularized head and neck tumors and growth factors: immunohistochemical and rt-pcr profile in pediatric age.**
Samanta Taurone, Marialuisa Spoletini, Caterina Chiappetta, Cira Di Gioia, Raffaella Carletti, Antonio Minni, Francesco S. Pastore, Rosaria Turchetta, Marco Artico (Roma)
30. **Follicle-stimulating hormone receptor (FSHR) a promising novel target for cancer diagnosis in seminoma and embryonal carcinoma.**
Rocco Malivindi, Daniela De Rose, Marta Santoro, Serena Gervasi, Vittoria Rago, Saveria Aquila (Cosenza, Catanzaro)
31. **The follicle-stimulating hormone receptor (FSHR) is expressed in human sperm and it may be considered as molecular marker of the detrimental effects related to the physiopathology of testicular varicocele**
Daniela De Rose, Vittoria Rago, Rocco Malivindi, Maria Clelia Gervasi, Marta Santoro, Saveria Aquila (Cosenza, Catanzaro)
32. **TLQP peptides in Amyotrophic Lateral Sclerosis.**
Carla Brancia, Barbara Noli, Marina Boido, Alessandro Vercelli, Paolo Bongioanni, Gian-Luca Ferri, Cristina Cocco (Cagliari, Torino, Pisa)
33. **Rigosertib as a radio-sensitizer for concurrent chemo-radiation treatment of cholangiocarcinoma (CCA): a comparative study in vitro.**
Alessio Malacrida, Silvia Damian, Luigi Celio, Vincenzo Mazzaferro, Mariarosaria Miloso (Milano)

CELLULE STAMINALI E INGEGNERIA TISSUTALE

- 34. Transcriptome analyses unveil the unique requirement for human lipoproteins for optimal ex-vivo expansion of cultured red blood cells for transfusion.**
Alessandra Ruggeri, Caterina De Benedittis, Massimiliano Dall’Ora, Fiorella Ciaffoni, Gabriella Girelli, Anna Rita Franco Migliaccio (Bologna, Roma, New York)
- 35. Breast Implant Associated-ALCL: a possible role for inflammation and Mesenchymal Stem Cells.**
Monia Orciani, Miriam Caffarini, Raffaella Lazzarini, Giulia Sorgentoni, Roberto Di Primio (Ancona)
- 36. Aging of periosteal-derived stem cells during expansion: an alternative tool for a customized bone regenerative strategy.**
Manuela Dicarlo, Monia Orciani, Guendalina Lucarini, Iolanda Iezzi, Giovanni Vozzi, Giorgia Cerqueni, Sonia Fantone, Monica Mattioli Belmonte (Ancona, Bologna, Pisa)
- 37. Colonization properties of different collagen sponges in skin repair.**
Gabriele Ceccarelli, Laura Benedetti, Martina Balli, Flavio Lorenzo Ronzoni, Carlo Iorio, Maria Gabriella Cusella De Angelis (Pavia, Bruxelles)
- 38. Effects of culture system and hypoxia on long-term expansion and differentiation of mesenchymal stem cells derived from periodontal ligament.**
Anna Di Vito, Manuela Chiarella, Francesco Bennardo, Ivan Presta, Amerigo Giudice, Leonzio Fortunato, Giuseppe Donato, Tullio Barni (Catanzaro)
- 39. Morphologic, immunophenotypic, and ultrastructural characterization of telocytes in pterygium.**
Cristina Maxia, Michela Isola, Daniela Murtas, Ignazio Zucca, Franca Piras, Luigi Minerba, Maria Teresa Perra (Cagliari)
- 40. Mesenchymal stem cells protect sensory neurons, but not cortical neurons, from the chemotherapeutics-induced neurotoxicity.**
Marianna Monfrini, Elisabetta Donzelli, Virginia Rodriguez-Menendez, Arianna Scuteri (Milano)

- 41. Cobalt chloride supplementation differently affects human mesenchymal stem cells isolated from dental pulp, umbilical cord and adipose tissues in their chondrogenic potential.**
Gabriella Teti, Eleonora Mazzotti, Laura Ingrà, Manuela Dicarlo, Giorgia Cerqueni, Alessandra Ruggeri (Bologna, Ancona)
- 42. “In vitro” osteogenic and angiogenic potential evaluation of a coculture of dental pulp stem and endothelial cells grown on the BisGMA/TEGDMA Chitlac coated thermosets.**
Amelia Cataldi, Monica Rapino, Valentina Di Valerio, Susi Zara (Chieti)
- 43. An ultrastructural study of Sertoli cells inside alginate microcapsules.**
Sabrina Burattini, Debora Burini, Mario Calvitti, Giovanni Luca, Iva Arato, Francesca Mancuso, Guglielmo Sorci, Elisabetta Falcieri (Urbino, Perugia)
- 44. Muscle hypertrophy and vascularization induction using human recombinant proteins.**
Flavio Lorenzo Ronzoni, Gabriele Ceccarelli, Laura Benedetti, Riccardo Bellazzi, Maria Gabriella Cusella De Angelis, Maurizio Sampaolesi (Pavia, Leuven)
- 45. Platelet preparations in neuronal cell differentiation.**
Veronica Bonazza, Giorgio Brunelli, Luisa Monini, Stefania Castrezzati, Claudio Lonati, Barbara Buffoli, Elisa Borsani, Luigi F. Rodella (Brescia)
- 46. Short Bowel Syndrome and Tissue Engineering: a preliminary study towards the development of a new regenerative approach in paediatric patients.**
Elena Stocco, Andrea Porzionato, Francesca Grandi, Silvia Barbon, Veronica Macchi, Anna Rambaldo, Martina Contran, Piergiorgio Gamba, Pier Paolo Parnigotto, Raffaele De Caro, Claudio Grandi (Padova)
- 47. Optimization of human heart decellularization method for cardiac regenerative medicine.**
Veronica Romano, Franca Di Meglio, Daria Nurzynska, Immacolata Belviso, Anna Maria Sacco, Mariagrazia Di Gennaro, Antonia Carfora, Angelica Avagliano, Lorenza Greco, Stefania Montagnani, Clotilde Castaldo (Napoli)

48. Human Cardiopoietic Amniotic Fluid cell population: characterization and terminal differentiation.

Barbara Ghinassi, Maria Angela D'Amico, Pascal Izzicupo, Simone Guarnieri, Maria Addolorata Mariggiò, Ivana Antonucci, Liborio Suppia, Angela Di Baldassarre (Chieti-Pescara)

ISTOGENESI E DIFFERENZIAMENTO

49. Retinoic Acid-induced differentiation sensitizes myeloid progenitors cells to ER stress.

Silvia Masciarelli, Ernestina Capuano, Tiziana Ottone, Mariadomenica Divona, Simone De Panfilis, Nélida I. Noguera, Francesco Lo-Coco, Francesco Fazi (Roma)

50. Contribution of miR-145-5p/Ago2 complex to the regulation of epithelial-mesenchymal transition.

Claudia Tito, Teresa Bellissimo, Silvia Masciarelli, Federica Ganci, Veronica Sorrentino, Natale Porta, Mirko Cirenza, Giuseppe Cavallaro, Antonella Calogero, Giulia Fontemaggi, Vincenzo Petrozza, Giovanni Blandino, Francesco Fazi (Roma, Latina)

51. β -caryophyllene and low-doses of doxorubicin against liver cancer cells: a "metronomic chemotherapy".

Romina Mancinelli, Antonella Di Sotto, Lorena Abete, Martina Vecchiato, Silvia Di Giacomo, Annabella Vitalone, Gabriela Mazzanti, Caterina Loredana Mammola (Roma)

52. Comparative transcriptome and gene regulation in human iPSC-derived organoids and donor-identical brain tissue.

Soraya Scuderi, Anahita Amiri, Gianfilippo Coppola, Feinan Wu, Daniel Franjic, Nenad Sestan, Mark Gerstein, Sherman Weissman, Alexej Abyzov, Flora Maria Vaccarino (New Haven, Rochester)

53. Scleral ossicles as natural biomaterials on which vascular-like network is promoted from Mouse Aortic Endothelial cells (MAECs): preliminary results.

Marta Checchi, Giulia Grisendi, Jessika Bertacchini, Maria Sara Magarò, Marzia Ferretti, Marta Benincasa, Paola Sena, Francesco Cavani, Carla Palumbo (Modena e Reggio Emilia)

54. Differentiation of human iPSCs into telencephalic neurons using 3D organoids and monolayer culture.

Giovanna Giuseppina Altobelli, Soraya Scuderi, Gianfilippo Coppola, Jun Hyan Park, Vincenzo Cimini, Flora Maria Vaccarino (Napoli, New Haven)

55. Naringenin as a novel inhibitor of Two-Pore Channel 2 controlling the angiogenic process *in vitro* and *in vivo*.

Francesca Papacci, Irene Pafumi, Annarita Favia, Fioretta Palombi, Margherita Festa, Armando Carpaneto, Antonio Filippini (Roma)

NEUROBIOLOGIA E NEUROANATOMIA

56. BAG3 localizes in axonal structures during neuronal differentiation and is expressed in cellular processes of migrating cells in mouse cerebral cortex.

Vanessa Nicolin, Antonietta Santoro, Stefania L. Nori (Trieste, Salerno)

57. Immunoreactivity and expression of synucleins in the South African clawed frog *Xenopus laevis* peripheral nervous system.

Arianna Casini, Mattia Toni, Elisa Angiulli, Carla Cioni, Rosa Vaccaro (Roma)

58. Distribution of synuclein immunoreactivity in the central nervous system of the South African clawed frog *Xenopus laevis*.

Rosa Vaccaro, Arianna Casini, Mattia Toni, Carla Cioni (Roma)

59. Immunohistochemical characterization of axon terminals of the adult rat cerebellar cortex.

Anna Rizzi, Loredana Lorusso, Giovanni Ciccimarra, Vincenzo Benagiano (Bari)

60. Role of nicotine during diabetic macular edema development.

Grazia Maugeri, Agata Grazia D'Amico, Daniela Maria Rasà, Yelia D'Agata (Catania, Roma)

61. Effects of acetylcholine precursors on inflammation markers in rat brain.

Seyed Khosrow Tayebati, Daniele Tomassoni, Ilenia Martinelli, Michele Moruzzi, Francesco Amenta (Camerino)

- 62. From nucleus pulposus mesenchymal stem cells towards neural differentiation: an interesting prospect .**
Raffaella Lazzarini, Giulia Sorgentoni, Miriam Caffarini, Monica Mattioli Belmonte Cima, Roberto Di Primio (Ancona)
- 63. Zinc protection in cadmium-induced Blood Brain Barrier permeability: a metabolic and morphological in vitro study.**
Jacopo J.V. Branca, Lorenzo Di Cesare Mannelli, Mario Maresca, Ferdinando Paternostro, Sofia Bonechi, Gabriele Morucci, Massimo Gulisano, Alessandra Pacini (Firenze)
- 64. Astrocyte clasmotodendrosis in a transgenic mouse model of Alzheimer's Disease.**
Daniele Nosi, Daniele Lana, Maria Grazia Giovannini, Fiorella Casamenti, Sandra Zecchi Orlandini (Firenze)
- 65. A multidisciplinary approach to study the brain injury in Diet-Induced Obesity (DIO) rats.**
Ilenia Martinelli, Seyed Khosrow Tayebati, Michele Moruzzi, Maria Vittoria Micioni Di Bonaventura, Consuelo Amantini, Maria Elena Giusepponi, Carlo Polidori, Carlo Cifani, Francesco Amenta, Daniele Tomassoni (Camerino)
- 66. The neuroprotective effect of estrogen pre-treatment in a model of neonatal hippocampal injury induced by trimethyltin.**
Valentina Corvino, Elisa Marchese, Alfredo Furno, Valentina Di Maria, Stefano Giannetti, Fabrizio Michetti, Maria Concetta Geloso (Roma, Lund)
- 67. Acetylcholine induces intracellular Ca²⁺ oscillations and nitric oxide release in mouse brain endothelial cells.**
Germano Guerra, Estella Zuccolo, Dmitry Lim, Vittorio Rosti, Egidio D'Angelo, Angela Lucariello, Angelica Perna, Domenico Tafuri, Francesco Moccia (Campobasso, Pavia, Novara, Napoli)
- 68. An in vitro study of the mTORC1/2 inhibitor PP242 in glioblastoma multiforme.**
Carmen Mecca, Ileana Giambanco, Rosario F. Donato, Cataldo Arcuri (Perugia)

69. Constrained Spherical Deconvolution Tractography reveals a direct cerebello-ventro tegmental pathway in humans.

Paolo Flace, Daniele Bruschetta, Silvia Marino, Ludovico Magaùda, Carmelo Milazzo, Debora Di Mauro, Giovanni Colangelo, Gianpaolo Basile, Fabio Trimarchi (Bari, Messina, Londra)

70. BDNF, trkB and PSA-NCAM in the hippocampus of Roman rats after forced swimming.

Maria Pina Serra, Laura Poddighe, Marianna Boi, Maria A. Piludu, Maria G. Corda, Osvaldo Giorgi, Marina Quartu (Cagliari)

SCIENZE DEL MOVIMENTO

71. Rowing technique determinants: a comparison between international and national level rowers.

Ilaria Pacifici, Nicola Lovecchio, Matteo Zago, Paolo Michelotti, Daniela Ciprandi, Chiarella Sforza (Milano)

72. Relationship between wingate cycle test and 2000m rowing ergometer performance in youth athletes.

Dario Cerasola, Angelo Cataldo, Daniele Zangla, Antonio Palma, Marcello Traina, Antonino Bianco, Laura Capranica (Roma, Palermo)

73. Judo training for older individuals with control group: An anthropometric evaluation.

Simone Ciaccioni, Giancarlo Condello, Laura Capranica (Roma)

74. The relation between moderate hearing loss with balance and postural control.

Ewan Thomas, Antonino Bianco, Marianna Bellafiore, Giuseppe Battaglia, Giuseppe Messina, Francesco Martines, Angelo Iovane, Antonio Palma (Palermo)

75. Rest-Activity circadian Rhythms and Body Mass Index in women with metabolic syndrome.

Antonino Mulè, Letizia Galasso, Cristiana Pesenti, Eleonora Bruno, Patrizia Pisanisi, Andrea Caumo, Eliana Roveda, Angela Montaruli (Milano)

- 76. The student academic performance in Anatomy is related to Circadian Typology?**
Cristiana Pesenti, Letizia Galasso, Antonino Mulè, Eleonora Bruno, Andrea Caumo, Eliana Roveda, Angela Montaruli (Milano)
- 77. The myotendinous junction plasticity following aerobic exercise.**
Davide Curzi, Sara Salucci, Pietro Gobbi (Urbino)
- 78. Assessment of the aesthetic component of female classical ballet dancers performance.**
Elena Mannacio, Maurizio Ripani, Antonello Ciccarelli, Giancarlo Condello, Filippo Tajani, Antonio Tessitore (Roma)
- 79. Effects of physical activity on postural balance in children with juvenile idiopathic arthritis: results from a pilot study.**
Antonino Patti, Antonino Bianco, Jessica Brusa, Giuseppe Battaglia, Marianna Bellafiore, Maria Cristina Maggio, Giovanni Corsello, Giuseppe Messina, Angelo Iovane, Antonio Palma (Palermo)
- 80. Finite element analysis in different subtype of sagittal alignment.**
Giorgio Cacciola, Vincenzo Filardi, Pietro Cavaliere, Alessandro Pisani, Andrea Barbanera, Maria Righi, Claudia Previti, Angelo Favaloro (Messina, Alessandria)
- 81. Forces distribution during plantar stand among the myo-osteo-joint components of the foot. Simulations and analysis on a human anatomical network model.**
Daniele Della Posta, Cristiana Veltro, Ugo Santosuosso, Sandra Zecchi, Ferdinando Paternostro (Firenze)
- 82. "Muoversi in equilibrio" project: effects on balance capacity in Binge Eating Disorder.**
Letizia Galasso, Cristiana Pesenti, Antonino Mulè, Eleonora Bruno, Andrea Caumo, Eliana Roveda, Angela Montaruli (Milano)
- 83. Morningness-Eveningness preferences and academic results: correlation between practical and theoretic discipline.**
Cristiana Pesenti, Letizia Galasso, Antonino Mulè, Eleonora Bruno, Andrea Caumo, Eliana Roveda, Angela Montaruli (Milano)

STORIA E DIDATTICA DELL'ANATOMIA E DELL'ISTOLOGIA

84. **Gross anatomy study on isolated formalin-fixed anatomical preparations.**
Rosa Vaccaro, Nicola Roberto Pepe, Fabiano Svolacchia, Lorenzo Fumagalli (Roma)
85. **Multi-layer spiral CT with 2D, 3D and 4D volume rendered electronic reconstructions of wax models and natural bone made by Giuseppe Astorri kept at "Luigi Cattaneo" Museum in Bologna.**
Luisa Leonardi, Cristian Mancini, Ester Orsini, Marilisa Quaranta, Elios Sequi, Francesco Colaci (Bologna)

TECNOLOGIE INNOVATIVE E MODELLI SPERIMENTALI

86. **Inorganic nanoparticles interactions with dendritic cells.**
Angela Silvano, Silvia Fogli, Costanza Montis, Sara Paccosi, Elena Michelucci, Debora Berti, Alberto Bosi, Astrid Parenti, Paolo Romagnoli (Firenze)
87. **The quest for the third dimension: from the Electron Microscope to the 3D printer.**
Mario Raspanti, Marcella Reguzzoni, Marina Protasoni (Varese)
88. **Proteomic insights in extracellular microvesicles from multiple sclerosis patients.**
Marco Marchisio, Paola Lanuti, Laura Pierdomenico, Giuseppina Bologna, Pasquale Simeone, Eva Ercolino, Damiana Pieragostino, Ilaria Cicalini, Piero Del Boccio, Giovanna Grifone, Sebastiano Miscia (Chieti)
89. **Nutrient excess in a stabilized co-culture system of Caco2/HT-29 cells: an ultrastructural and functional time-course study.**
Anita Ferraretto, Michela Bottani, Laura Cornaghi, Elena Donetti (Milano)
90. **Metabolic effects of Tart Cherries supplementation in an animal model of obesity.**
Michele Moruzzi, Ilenia Martinelli, Maria Vittoria Micioni Di Bonaventura, Maria Elena Giusepponi, Gabriella Gabrielli, Alessandro Fruganti, Andrea Marchegiani, Fabrizio Dini, Carlotta Marini, Massimiliano Cuccioloni, Matteo Mozzicafreddo, Carlo Polidori, Carlo Cifani, Giulio Lupidi, Francesco Amenta, Seyed Khosrow Tayebati, Daniele Tomassoni (Camerino)

91. Effects induced by particles derived from two anthropogenic sources on respiratory, cardiovascular and central nervous systems.

Paola Marmiroli, Chiara Milani, Elisa Ballarini, Elisabetta Donzelli, Luca Crippa, Guido Cavaletti, Paola Palestini, Francesca Farina (Monza, Milano)

92. Melatonin atheroprotective effects *in vivo*.

Francesca Bonomini, Gaia Favero, Lorenzo Nardo, Luca Facchetti, Youngho Seo, Miguel Hernandez Pampaloni, Lorena Giugno, Roberto Maroldi, Rita Rezzani (Brescia, Sacramento, San Francisco)

93. Flavocoxid mitigates cadmium-induced toxicity: structural, immunohistochemical and molecular analysis in mice kidney.

Antonio Micali, Mariagrazia Rinaldi, Giovanni Pallio, Herbert Marini, Natasha Irrera, Domenico Puzzolo, Antonina Pisani, Alba M. Arco, Consuelo Malta, Francesco Squadrito, Domenica Altavilla, Letteria Minutoli (Messina)

TESSUTO MUSCOLARE E TESSUTO CONNETTIVO

94. New pathogenetic perspectives in Pelvic Organ Prolapse (POP): the possible role of the cross-talk between AGEs, MAPK and Smads.

Roberta Sferra, Anna Gallone, Simona Pompili, Amarildo Smakaj, Saverio La Bella, Angela D'Alfonso, Gaspare Carta, Antonella Vetuschi (L'Aquila)

95. Understanding the endocrine crosstalk between bone and muscle: molecular investigation of the impact of myokines on osteogenesis using C2C12 myoblast and 2T3 osteoblast cell lines.

Maria Sara Magarò, Jessika Bertacchini, Marta Checchi, Carla Palumbo (Modena e Reggio Emilia)

96. *In vivo* Micro-computed tomography imaging of adipose tissue of mice fed Sicilian pistachio.

Gaetano Felice Caldara, Vincenzo Ferrantelli, Simona Terzo, Maria Grazia Zizzo, Sara Baldassano, Antonella Amato (Palermo)

97. Spheroids from human primary skin myofibroblasts as experimental system for myofibroblast deactivation studies.

Angelica Avagliano, Giuseppina Granato, Maria R. Ruocco, Stefania Masone, Valeria Imparato, Stefania Montagnani, Alessandro Arcucci (Napoli)

98. **An animal and cellular study on α B-crystallin activation in cardiac muscle by acute exercise.**

Ambra Antonioni, Ivan Dimauro, Neri Mercatelli, Rosario Barone, Filippo Macaluso, Valentina Di Felice, Daniela Caporossi (Roma, Palermo)

99. **The Organ Care System as a new promising tool for donor heart *ex vivo* preservation.**

Antonella Bonetti, Giovanni Benedetti, Cristina Cantarutti, Veronica Ferrara, Magali Contin, Nicoletta Finato, Sandro Sponga, Gennaro Esposito, Ugolino Livi, Fulvia Ortolani (Udine)

ANATOMIA CLINICA FORENSE

100. **Ischemic colitis following left antegrade sclerotherapy for idiopathic varicocele: the role of forensic clinical anatomy.**

Rafael Boscolo-Berto, Veronica Macchi, Andrea Porzionato, Aldo Morra, Raffaele De Caro (Padova)

NUOVE METODOLOGIE DIDATTICHE NELLA MORFOLOGIA

101. **Safe use of human anatomical preparations in frontal and interactive teaching.**

Gabriele Ceccarelli, Laura Benedetti, Piero Micheletti, Maria Gabriella Cusella De Angelis (Pavia)

NUOVI APPROCCI ALLE SCIENZE DEL MOVIMENTO: DALLA POSTURA ALLA ROBOTICA ATTRAVERSO LA REALTÀ VIRTUALE

102. **Analysis of isometric strength and force-velocity relationship after 7 weeks of stable and unstable training on partial push up**

Bruno Magnani, Gabriella Cusella De Angelis, Edoardo Gatti, Luca Baigueri, Flavio Ronzoni, Tiziano Gemelli, Matteo Fortunati (Pavia)