GEI - SOCIETÀ ITALIANA DI BIOLOGIA DELLO SVILUPPO E DELLA CELLULA

UNIVERSITÀ DEGLI STUDI DI BARI ALDO MORO

71° CONVEGNO GEI-SIBSC

BARI 09 - 12 GIUGNO 2026

PROGRAMMA

PROGRAMMA COMUNICAZIONI

Bari, 09–12 giugno 2026

Info & Contatti:

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EdiSES EDIZIONI · Nikon · Sintak · Di Giacomo Centro Analisi Cliniche · eppendorf · mariolippolis · Levanchimica

Scientific Committee

Uniba: Giovanni Scillitani, Maria Mastrodonato, Donatella Mentino, Roberta Rossi, Daniela Semeraro, Marco Vito Guglielmi,
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Giovanni Scillitani, Maria Mastrodonato, Donatella Mentino, Roberta Rossi, Michele Civiello, Francesco Curci, Daniela Semeraro, Marco Vito Guglielmi

Programma Comunucazioni

Palazzo Ateneo
Aula magna Aldo Cossu
9 giugno 2026

14:00 Apertura segreteria e registrazione partecipanti

15:30 Saluti di Benvenuto

16:00 Keynote lecture

Chairs: ***Giovanni Scillitani & Elisabetta Carata***
Gabriele D'Uva - OVERCOMING HORMONAL BARRIERS TO CARDIAC REGENERATION

SESSION
Stem cells and regenerative medicine
Chairs: *Rosalba Gornati & Fabiana Geraci*

16:30 - 17:45

16:30-16:45 *ROMANO N.* EVOLUTIONARY STRATEGIES OF CARDIAC GROWTH: THE ICEFISH HEART AS A MODEL TO CONTRAST PATHOLOGICAL CELLULAR MALADAPTATION

16:45-17:00 *BONISOLO D.* SINGLE-NUCLEI MULTI-OMICS DISSECTION OF TRANSCRIPTIONAL AND EPIGENETIC REMODELING DURING CARDIAC AGING

17:00-17:15 *PAGIATAKIS C.* THE CARDIAC ENHANCER RNA *CHHEAF* PRESERVES HEART FUNCTION DURING STRESS ADAPTATION VIA RTN4-DEPENDENT AUTOPHAGY

17:15-17:30 ***BARONE L.*** HUMAN ADIPOSE STEM CELLS: IMPACT OF DONORS' AGE ON CELL PROPERTIES AND BEHAVIOUR

17:30-17:45 ***COCCIA E.*** BIOFUNCTIONALIZED ELECTROSPUN FIBERS FOR SKIN REGENERATION

18:00-19:00 COCKTAIL DI BENVENUTO

Programma Comunucazioni

Palazzo Ateneo
Aula magna Aldo Cossu
10 giugno 2026

8:30 Apertura segreteria e registrazione partecipanti

9:00 Keynote lecture

Chairs: ***Massimo Pasqualetti & Elisa Panzarini***

Alessandro Romano
MODELING NON-CELL AUTONOMOUS MECHANISMS IN THE ALSPERIPHERAL NERVOUS SYSTEM

SESSION
Neurobiology and Neurodegeneration
Chairs: *Massimo Pasqualetti & Paolo Marcello Peretto*

09:30 - 11:00

9:30-9:45 ***CARATA E.*** EARLY-DIFFERENTIATED C2C12 MYOTUBES RELEASE A PRO-TROPHIC SECRETOME THAT MODULATES NSC34 MATURATION: IMPLICATIONS FOR NEUROMUSCULAR CROSSTALK IN AMYOTROPHIC LATERAL SCLEROSIS

9:45-10:00 ***TATA A.M.*** PROTECTIVE ROLE FOR OLEOYLETHANOLAMIDE (OEA) IN THE HUMAN BRAIN: EFFECTS ON THE MODULATION OF NEUROINFLAMMATION AND INSULIN RESISTANCE IN HUMAN ASTROCYTES

10:00-10:15 ***BONZANO S.*** NR2F1 MODULATES ACTIVATION DYNAMICS AND MAINTENANCE OF THE ADULT MURINE HIPPOCAMPAL NEURAL STEM CELL POOL

10:15-10:30 ***PROIETTI R.*** CELLULAR DYSHOMEOSTASIS AND REDOX IMBALANCE INDUCED BY CANTHARIDIN IN GLIOBLASTOMA MODELS

10:30-10:45 ***RENDINA F.*** ROTENONE-INDUCED OXIDATIVE STRESS TRIGGERS PEROXISOMAL ALTERATIONS IN BV-2 MICROGLIAL CELLS

10:45-11:00 ***GIANNI G.*** DISSECTING THE REGIONAL ORGANIZATION OF WIRING AND VOLUME TRANSMISSION IN THE SEROTONERGIC SYSTEM

11:00-11:30 Coffee break

SESSION

Neurodevelopment

CHAIRS: Mario Pestarino& Ada Maria Tata

11:30 - 13:00

11:30-11:45 ***FOGLIANO F.*** LOSS OF IMPG2 PARALOGS LEADS TO RETINAL DEGENERATION IN ZEBRAFISH DOUBLE KNOCK-OUT MODEL

11:45-12:00 ***VARONE M.*** TARGETING P75NTR CORRECTS OXIDATIVE AND INFLAMMATORY IMBALANCES IN A CELLULAR MODEL OF RETT SYNDROME

12:00-12:15 ***IACONO F.*** INVESTIGATING THE ROLE OF NR2F1 IN NEURAL STEM CELL QUIESCENCE AND ACTIVATION IN THE ADULT SUBVENTRICULAR ZONE

12:15-12:30 ***PICCHI M.*** AN *EX VIVO* GRAFTING PLATFORM TO DISSECT TISSUE-DEPENDENT GUIDANCE OF SEROTONERGIC AXONS

12:30-12:45 ***SALVADORI F.*** UNDERSTANDING PROPERTIES OF NEURAL STEM CELLS ISOLATED FROM A MONOGENIC MOUSE MODEL OF AUTISM EXPRESSING THE R451C NLGN3 MUTATION

12:45-13:00 ***SANSALONE G.*** THE EVOLUTION OF NEURONAL SCALING IN AMNIOTES

13:00-14:30 Lunch

SESSION

Emerging Technologies and models

Chairs: Marco Colasanti & Giorgia Gioacchini

14:30 - 16:30

14:30-14:45 ***SPANI F.*** BACULUM ONTOGENY IN WILD VIETNAMESE PRIMATES REVEALED BY MICRO-CT, 3D MORPHOMETRICS, AND INTERNAL MICROARCHITECTURE

14:45-15:00 ***DE GREGORIO V.*** ENHANCING IN VITRO FOLLICULOGENESIS THROUGH OVARIAN TISSUE-ENDOTHELIAL CELL CO-CULTURE: 3D MAPPING OF NEO-CAPILLARY GROWTH AND MATURATION

15:30-15:15 ***MARCOLLI G.*** ENHANCING ANGIOGENESIS IN *Hirudo verbana* USING NANOSTRUCTUREDSCAFFOLDS PRIMED WITH HUMAN DENTAL PULP STEM CELL SECRETOME

15:15-15:30 ***ONORATI M.*** A SELF-FOLDING HUMAN NEURAL TUBE MODEL USING 4D SMART SCAFFOLDS

15:30-15:45 ***GIOMMI C.*** A 3D HUMAN OSTEOBLAST SPHEROID MODEL REVEALS ENDOCRINE DISRUPTOR OSTEOTOXICITY AND THE EFFECTS OF POSTBIOTICS

15:45-16:00 ***FANTINATO A.*** 3D MORPHO-FUNCTIONAL RECONSTRUCTION OF THE PREPUBERTAL MOUSE OVARY COMBINING NANO-COMPUTED TOMOGRAPHY AND CONFOCAL IMAGING

16:00-16:15 ***FIORENTINO G.*** NANO-COMPUTED TOMOGRAPHY 3D MAPPING OF PRIMARY-TO-PREOVULATORY FOLLICLES IN THE MOUSE OVARY ACROSS LIFESPAN

16:15-16:30 ***RICCIO L.*** APPLICATION OF AN AI-BASED WORKFLOW FOR THE ASSESSMENT OF TESTICULAR DAMAGE IN DOGS

16:30-17:00 Coffee Breack

17:00-18:00 Riunione PO

18:00-19:00 Assemblea dei soci

Centro Polifunzionale
Aula Leogrande
10 giugno 2026

SESSION
Gametogenesis and reproductive biology
Chairs: Maurizio Zuccotti & Maria Maisano

9:30 - 11:00

9:30-9:45 *BRAZZALE G.* EXTRACELLULAR VESICLES RELEASED BY CUMULUS CELLS CONTRIBUTE TO THE ACQUISITION OF MOUSE OOCYTE'S DEVELOPMENTAL COMPETENCE

9:45-10:00 *ISERNIA M.* PREIMPLANTATION EMBRYO MORPHOLOGICAL FEATURES AS NON-INVASIVE MARKERS OF DEVELOPMENT TO BLASTOCYST

10:00-10:15 *BIASI A.* FROM SIGNALING TO STRUCTURE: TYPE 1 DIABETES DISRUPTS ACTIN NETWORKS IN TESTIS AND SPERMATOZOA

10:15-10:30 CHEMELLO G. REPRODUCTIVE DYNAMICS AND PHYSIOLOGICAL CONDITION IN DIFFERENT SIZE CLASSES OF COMMON SOLE (*Solea solea*) FROM THE NORTH-CENTRAL ADRIATIC SEA

10:30-10:45 *SANCHEZ GARCIA A.S.* EFFECTS OF ENVIRONMENTAL TEMPERATURE VARIATION AND BDNF MODULATION ON THE SPATIO-TEMPORAL SHOALING BEHAVIOUR OF ADULT ZEBRAFISH (*DANIO RERIO*) REVEALED BY TWO- AND THREE-DIMENSIONAL ANALYSIS

10:45-11:00 *TERRANOVA M.* IMPACT OF IVERMECTIN ON THE GONADS OF THE MARINE MUSSEL *MYTILUS GALLOPROVINCIALIS* AND REPERCUSSION ON THE EMBRYO DEVELOPMENT

11:00-11:30 Coffee break

SESSION

Ecotoxicological effects of xenobiotics

Chairs: Elena Menegola & Ida Ferrandino

11:30 - 13:00

11:30-11:45 *CHIANESE T.* ARSENIC-INDUCED OXIDATIVE AND CELLULAR STRESS IN THE FRESHWATER SNAIL *LYMNAEA STAGNALIS*

11:45-12:00 *SEMERARO D.* AlCl3 TREATMENTS INDUCED MORPHOLOGICAL AND MICROSCOPICAL ALTERATIONS IN *PELOPHYLAX LESSONAE* EMBRYOS

12:00-12:15 *FALVO S.* CELLULAR AND MOLECULAR MECHANISMS OF GADOLINIUM TOXICITY IN SERTOLI CELLS

12:15-12:30 *GALATI M.* GADOLINIUM AND REPRODUCTIVE HEALTH IN NON-TARGET ORGANISMS: EVIDENCE FROM *MYTILUS GALLOPROVINCIALIS* SPECIES

12:30-12:45 *SERAFINI E.* IMPACTS OF ANTHROPOGENIC NOISE ON CEPHALOCHORDATES

12:45-13:00 *MARCHETTI S.* SYNERGISTIC LUNG TOXICITY OF PM2.5 AND ENNIATIN B1 IN A CO-CULTURE MODEL

13:00-14:30 Lunch

SESSION

Ecotoxicological effect of xenobiotics 2

Chairs: Ike Olivotto & Rosa Carotenuto

14:30 - 16:30

14:30-14:45 *DI MARINO S.* ASSESSING DEVELOPMENTAL TOXICITY OF PSYCHOACTIVE POLLUTANTS USING *XENOPUS LAEVIS* AS A MODEL

14:45-15:00 *SGANGARELLA VALVANO B.* EFFECT OF DI-N-BUTYL PHTHALATE (DBP) ON ADIPOGENESIS

15:00-15:15 *MENEGOLA E.* DEVELOPMENTAL TOXICITY OF DIBUTYLPFTALATE (DBP) ALONE AND IN MIXTURE WITH SUB-TERATOGENIC CONCENTRATIONS OF ETHANOL: PRELIMINARY RESULTS ON XENOPUS *LAEVIS EMBRYOS* (R-FETAX).

15:15-15:30 *LA PUSATA G.* IMPACT OF MICROPLASTICS (MPs) AND BISPHENOL A (BPA), ALONE AND ABSORBED ON MPs, ON *MYTILUS EDULIS* EMBRYOS

15:30-15:45 *LA PIETRA A.* IMPACT OF POLYETHYLENE MICROPLASTICS ON INTESTINE, OVARY AND BRAIN OF ZEBRAFISH

15:45-16:00 *MIGLIACCIO V.* CYTOTOXIC EFFECTS OF NANOPLASTICS ON THE MALE GONADS OF MYTILUS GALLOPROVINCIALIS

16:00-16:15 *BERTINI F.* ASSESSING RECOVERY FROM HYDROCARBON SPILL EXPOSURE IN MEDITERRANEAN MUSSEL MYTILUS GALLOPROVINCIALIS: A MULTI-BIOMARKER APPROACH

16:15-16:30 *IMPERATORE R.* ENVIRONMENTAL FACTORS INFLUENCE THE PROTECTIVE EFFICACY OF *BRASSICA OLERACEA* EXTRACTS ON INTESTINAL AND HEPATIC HOMEOSTASIS IN ZEBRAFISH

16:30-17:00 Coffee Breack

17:00-18:00 Riunione PO **(Aula Magna)**

18:00- 19:00 Assemblea dei soci **(Aula Magna)**

Programma Comunucazioni

Palazzo Ateneo

Aula magna Aldo Cossu

11 giugno 2026

8:30 Apertura segreteria e registrazione partecipanti

9:00 Keynote lecture

Chairs: **Maria Mastrodonato & Donatella Mentino**

Maria Felicia Faienza DISTINCTIVE HOMEOSTATIC BALANCE IN CHILDHOOD OBESITY AND ITS RELATIONSHIP WITH BONE HEALTH

SESSION

Diet effects and metabolic regulation

Chairs: Maria De Falco & Tiziana Persichini

09:30 - 11:00

9:30-9:45 *COLARDO M.* ADMINISTRATION OF BRANCHED-CHAIN AMINO ACIDS AND DI-ALANINE MITIGATES MUSCLE ATROPHY IN A MOUSE MODEL OF CANCER CACHEXIA

9:45-10:00 *PANZARINI E.* *PUNICA GRANATUM*-DERIVED EXTRACELLULAR VESICLES EFFECTS ON AN IN VITRO GASTROINTESTINAL BARRIER MODEL OF INTESTINAL INFLAMMATION

10:00-10:15 *MENTINO D.* EFFECTS OF DIETARY FRUCTOSE ON DUODENAL MUCIN GLYCOSYLATION AND MUCUS PRODUCTION IN MICE FED A HIGH-FAT DIET

10:15-10:30 ***SELITA E.*** RESILIENCE ASSOCIATED WITH DEFECTS IN VITAMIN B12 METABOLISM: BALANCING BETWEEN HOMEOSTASIS AND DISEASE

10:30-10:45 ***AMBRUOSI M. R.*** OBESITY-INDUCED TESTICULAR DYSFUNCTION: PROTECTIVE ROLES OF THYROID HORMONES IN HIGH-FAT DIET-FED RATS

10:45-11:00 ***ABRUSCATO G.*** MODULATION OF NEUROINFLAMMATION IN IL-1β-INDUCED HUMAN ASTROCYTES: EFFECTS OF GREEN LEAVES AND RHIZOMES EXTRACT FROM *POSIDONIA OCEANICA* (L.) DELILE

11:00-11:30 Coffee break

SESSION

Diet effects and metabolic regulation 2

Chairs: Bice Avallone & Tiziana Cappello

11:30 - 12:30

11:30-11:45 ***IBELLO L.*** NATURAL ANTIOXIDANTS IN THE FIGHT AGAINST OVARIAN CANCER: *IN VITRO* EFFECTS OF POLYPHENOLS

11:45-12:00 ***GANCI D.*** CYTOTOXIC EFFECTS OF SICILIAN GRAPE SEED OILS ON CANCER CELLS

12:00-12:15 ***BELLISTRÌ F.*** MODULATION OF ETOSIS BY BIOACTIVE EXTRACTS DERIVED FROM MARINE RESOURCES AND AGRI-FOOD BY-PRODUCTS

12:15-12:30 ***BOCCIA S.*** IMPACT OF COCAINE ON GASTROINTESTINAL BARRIER INTEGRITY

13:00-14:30 Lunch

14:30-15:30 Poster session

SESSION

Inter-organ crosstalk

Chairs: Simona Candiani & Lucia Rocco

15:30 - 16:30

15:30-15:45 *CARRELLA F.* ADRENERGIC MODULATION OF THE HYPOTALAMIC PITUITARY THYROID AXIS LIZARD *PODARCIS SICULUS*

15:45-16:00 *LALLO A.* OVERVIEW OF EFFECTS OF ENDOCRINE-DISRUPTING CHEMICALS (EDCs) ON THE MORPHOPHYSIOLOGY OF THE THYROID GLAND IN REPTILES: EVIDENCE FROM LACERTIDE *PODARCIS SICULUS*

16:00-16:15 *TERRIN F.* *b*-SITOSTEROL b-D-GLUCOSIDE (BSSG) TRIGGERS INTESTINAL INFLAMMATION IN ZEBRAFISH LARVAE POSSIBLY LEADING TO NEURODEGENERATION THROUGH THE GUT-BRAIN AXIS

16:15-16:30 *BALDONI N.* FROM GUT MICROBIOTA TO GONADS: BUTYRATE MITIGATES PFAS–PESTICIDE MIXTURE TOXICITY IN ZEBRAFISH SPERMATOGENESIS

16:30 Coffee Break

19:30 Appuntamento Navetta

20:30 Cena sociale presso Lido Salsello, Bisceglie

Centro Polifunzionale
Aula Leogrande
11 giugno 2026

SESSION
Cell signalling
Chairs: Sandra Moreno & Michele D'Angelo

09:30 - 11:00

9:30-9:45 *CANCEMI P.* EXPLORING THE FUNCTIONAL ROLE OF THE PROTEOGLYCAN ESM1 IN THE BREAST CANCER TUMOR MICROENVIRONMENT

9:45-10:00 *SCANAVINO G.* DYNAMICS AND INTRACELLULAR TRAFFICKING OF M2R-DUALSTER AGONIST COMPLEX INTO GLIOBLASTOMA CELLS

10:00-10:15 *AMAROLI A.* MITOCHONDRIA DANCE WITH LIGHT: HOW WAVELENGTH CHOREOGRAPHS RESPIRASOMA, NITRIC OXIDE AND OXIDATIVE PHOSPHORYLATION

10:15-10:30 *MARTELLA N.* DECIPHERING THE ROLE OF ULK1 IN THE BIOLOGY OF GLIOBLASTOMA MULTIFORME

10:30-10:45 *CIANFANELLI V.* TRANSCRIPTIONAL AND POST-TRANSLATIONAL NETWORKS COORDINATE SELECTIVE AUTOPHAGY TO MAINTAIN ORGANELLE HOMEOSTASIS

10:45-11:00 *MANFRINI N.* DEFINING FAM46C-DEPENDENT LIPID REMODELLING IN CELLULAR HOMEOSTASIS

11:00-11:30 Coffee break

SESSION

Immune responses

Chairs: Davide Malagoli & Palma Simoniello

11:30 - 12:45

11:30-11:45 *NUNNARI A.* RODLET-LIKE CELLS IN THE YELLOW-LEGGED GULL (*LARUS MICHAHELLIS*): FIRST EXPLORATORY STUDY OF THE INTESTINAL IMMUNE SYSTEM

11:45-12:00 *FRANCHI N.* CONTROLLING COMPLEMENT FROM IMMUNITY TO DEVELOPMENT

12:00-12:15 *FERRI A.* IL-17 FAMILY IN *Pomacea canaliculata*: FIRST EVIDENCE OF A EXCLUSIVE NEURAL-SPECIFIC MEMBER

12:15-12:30 *LOSI C.* HEMOLYMPH REPOPULATION AFTER WITHDRAWAL INVOLVES CIRCULATING AND KIDNEY-RESIDENT HEMOCYTE POPULATIONS IN THE SNAIL *POMACEA CANALICULATA*

12:30-12:45 *LOMBARDO G.P.* CHARACTERIZATION OF IMMUNE CELLS IN THE ADIPOSE TISSUE OF OBESE MICE TREATED WITH ANTI-OBESITY THERAPIES

13:00-14:30 Lunch

14:30-15:30 Poster session

SESSION

From research to application

Chairs: Patrizia Cancemi & Rosaria Scudiero

15:30 - 16:30

15:30-15:45 *MARIANO S.* TWEEN 60-COATED COPPER NANOPARTICLES FOR BIOMEDICAL APPLICATION: CHARACTERIZATION AND *IN VITRO* EVALUATION

15:45-16:00 ***TESORIERE A.*** DECODING THES PATHOGENESIS: HOW TTC37 SHAPES GUT HOMEOSTASIS AND PERISTALSIS

16:00-16:15 ***PIERSANTI A.*** ZEBRAFISH EMBRYOS AS A MODEL FOR IN VIVO EVALUATION OF NANOPARTICLE AND VESICLE BASED DELIVERY SYSTEMS

16:15-16:30 ***BRAGATO C.*** BEYOND SURVIVAL: INNATE IMMUNE READOUTS IN ZEBRAFISH FOR ADVANCED BIOMATERIALS ASSESSMENT

PROGRAMMA

12 giugno 2026

9:30-14:30 Gita Bari vecchia seguita da light lunch

Sessione Poster

Palazzo Ateneo

Aula magna Aldo Cossu

11 giugno 2026

1. BET PROTEIN INHIBITION ATTENUATES MICROGLIAL ACTIVATION AND OXIDATIVE STRESS IN A CELLULAR MODEL OF PARKINSON'S DISEASE

E. Bisesto[1], D. Pensabene[1], M. Colardo[1], M. Varone[1], M. Segatto[1]
[1]*Dept. of Biosciences and territory, University of Molise, Pesche (IS), Italy*

2. MITOCHONDRIAL DNA COPY NUMBER VARIATION AND ROS PRODUCTION IN ZEBRAFISH AND HUMAN CELL LINES EXPOSED TO HEAVY METALS

G.S. Calogero, M. Giuga, A. Mazzurco, G. Manganaro, V. Ferrito, A.M. Pappalardo.
[1]*Dept. of Biological, Geological and Environmental Sciences, University of Catania, Italy.*

3. ALTERED NEUROTRANSMISSION AND METABOLISM IN A GFAP R239C ZEBRAFISH MODEL OF ALEXANDER DISEASE

S. Candiani[1,2], M. Bozzo[1], V. Bazzurro[1], D. Bellitto[3], A. Tripi[1], S. Ferrando[1], G. Rosa[1], T. Bacchetti[3]
[1]*Dept. of Biology, University of Genova, Italy;* [2]*RCCS Azienda Ospedaliera Metropolitana, Genova, Italy;* [3]*UO Proteomica e Spettrometria di Massa, IRCCS Ospedale Policlinico San Martino, Genova, Italy.*

4. COSTA - COOPERATING FOR A COMMON GOAL: THE HEALTH OF THE *MEDITERRANEAN SEA*

M. Galati[1], D. Torre[1], S. Savoca[1], G. Capillo[1], C. Espro[2], G. Di Bella[2], D. Iannazzo[2], A. Germanà[3], G. Montalbano[3], G. Genovese[1], M. Maisano[1], T. Cappello[1]
[1]*Dept. of Chemical, Biological, Pharmaceutical and Environmental Sciences, University of Messina, Italy;* [2]*Dept. of Engineering;* [3]*Dept. of Veterinary Sciences*

5. COMBINED EMBRYOTOXIC EFFECTS OF MICROPLASTICS AND HEAVY METALS IN *XENOPUS LAEVIS*

S. Di Marino[1], C. Fogliano[1], C.M. Motta[1], B. Avallone[1], R. Carotenuto[1]
[1]Dept. of Biology, University of Naples Federico II, Italy.

6. MODELING THE COMPLEXITY OF THE CENTRAL NERVOUS SYSTEM WITH PATIENT IPSC-DERIVED CEREBRAL ORGANOIDS

L. Carpinelli [1,#], D. Sibilia[1,#], P.N. Doronzio[2,#], F. Giacalone[1], C. Lisciandrello[2], E. Guadagni[2], A. Conte[3], S. Lattante[4], M. Magatti[5], A. Silini[5], Facility Biobanca[6], Facility Citometria a Flusso[6], L. Di Pietro[1,2], M. Sabatelli[3] and O. Parolini[1,2].
[1]*Fondazione Policlinico Universitario A. Gemelli IRCSS, Rome, Italy* [2]*Dipartimento di Scienze della Vita e Sanità Pubblica, Università Cattolica del Sacro Cuore, Rome, Italy* [3]*Centro Clinico NEMO, Fondazione Policlinico Gemelli IRCCS, Rome, Italy* [4]*Department of Experimental Medicine, University of Salento, Lecce, Italy* [5]*Centro di Ricerca E. Menni, Fondazione Poliambulanza Istituto Ospedaliero, Brescia, Italy* [6]*Gemelli Science and Technology Park (GSTeP), Fondazione Policlinico Universitario A. Gemelli IRCSS, Rome, Italy.* [#]*contributed equally*

7. ULVANS AS AN ECO-FRIENDLY TOOL TO MITIGATE CELLULAR IMPAIRMENT INDUCED BY DEXAMETHASONE IN *MYTILUS GALLOPROVINCIALIS*

N. Caruso[1,2], G. De Marco[2], M. Galati[2], La Pusata[2], M. Terranova[1,2], V. Parrino[2], G. Genovese[2], T. Cappello[2], M. Maisano[2]

[1]*Dept. of Earth and Marine Sciences, University of Palermo, Palermo, Italy,* [2]*Dept. of Chemical, Biological, Pharmaceutical and Environmental Sciences, University of Messina, Messina, Italy*

8. ANALYSIS OF THE EFFECTS INDUCED BY VANADIUM-BASED METALLODRUGS IN SEA URCHIN EMBRYOS

I. Termine[1], G. Sangiorgi[1], A. Terenzi[1], G. Barone[1], R. Bonsignore[1], F. Geraci[1], R. Chiarelli[1]

[1]*Department of Biological, Chemical and Pharmaceutical Sciences and Technologies (STEBICEF), University of Palermo, Viale delle Scienze, 90128 Palermo, Italy.*

9. THERAPEUTIC POTENTIAL OF NEUROTROPHINS IN AUTISM SPECTRUM DISORDER

F. D'Egidio[1], M. S. Scenna[1], M. d'Angelo[1,2], V. Castelli[1], A. Cimini[1,2]

[1]*University of L'Aquila, Dpt. of Life, Health and Environmental Sciences, L'Aquila, Italy.* [2]*Sbarro Institute for Cancer Research and Molecular Medicine and Center for Biotechnology, Temple University, Philadelphia, PA, 19122, USA.*

10. BIOLOGICAL ACTIVITIES OF CITRUS LIMON-, VITIS VINIFERA- AND ACTINIDIA DELICIOSA-DERIVED EXTRACELLULAR VESICLES ON HUMAN CACO-2 CELLS

M. Destino[1], E. Carata[1], B. A. Tenuzzo[1], E. Panzarini[1]

Department of Biological and Environmental Sciences and Technologies (Di.S.Te.B.A.), University of Salento, 73100 Lecce, Italy.

11. BINARY MIXTURE OF BISPHENOL A (BPA) AND ETHANOL: EFFECTS ON *XENOPUS LAEVIS* DEVELOPMENT (R-FETAX)

F. Di Renzo[1], F. Metruccio[2], R. Bacchetta[1], M. Battistoni[1], E. Menegola[1]

[1]*Dept of Environmental Science and Policy Università degli Studi di Milano, Italy.*[2]*ICPS, ASST Fatebenefratelli Sacco, Milan, Italy.*

12. NEUROBIOLOGICAL IMPACT OF CITRUS BERGAMIA IN THE IDIOPHATIC AUTISM MODEL BTBR

D. Minervini[1], I. Olivito[1], A. Vivacqua[2,3], L. Bartella[4,5], L. Di Donna[4,5], R. Alò[1], R.M. Facciolo[1]

[1]*Comparative Neuroanatomy Lab.; Biology, Ecology and Earth Sciences Dept., University of Calabria, Rende (CS), Italy.* [2] *Dept. of Pharmacy, Health and Nutritional Sciences, University of Calabria, Rende (CS), Italy.* [3]*Centro Sanitario, University of Calabria, Rende (CS), Italy.* [4] *QUASIORA Lab., AGRINFRA Research Net, University of Calabria, Rende (CS), Italy.* [5] *Chimica and Tecnologie Chimiche Dept., University of Calabria, Rende (CS), Italy.*

13. NEURODEGENERATION AND DNA DAMAGE FOLLOWING CO-EXPOSURE TO POLYSTYRENE MICROPLASTICS AND BISPHENOL A IN ZEBRAFISH EMBRYOS

A. La Pietra, A. R. Bianchi, B. Berman, A. Petito, A. Chirico, A. Cacace, B. Cozzolino, Paola Venditti, A. De Maio, I. Ferrandino

Dept. of Biology, University of Naples Federico II, Italy.

14. IMMUNE HANDLING OF PET NANOPLASTICS IN Pomacea canaliculata: ACCUMULATION BY CIRCULATING AND TISSUE-RESIDENT HEMOCYTES FOLLOWING ACUTE EXPOSURE

A. Ferri[1], S. Sacchi[1], C. Losi[2], M. Amico[1], D. Malagoli[1;4]

[1] Dept. of Life Science, University of Modena and Reggio Emilia, Italy; [2] Dept. of Chemical and Geological Sciences, University of Modena and Reggio Emilia, Italy; [3 4] NBFC, National Biodiversity Future Center, Italy.

15. EXPLORING NEUROTROPHIN-MEDIATED MECHANISMS IN ISCHEMIC CEREBRAL ORGANOIDS THROUGH INTEGRATED MULTI-OMICS ANALYSIS

Chiara Giorgi[1], Fabrizio Ammannito[1], Vanessa Castelli[1], , Annamaria Cimini[1,2] Michele d'Angelo[1,2].

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16. DEVELOPMENTAL TOXICITY OF LIGNIN AND NATURAL EXTRACTS-BASED NANO(BIO)PESTICIDES IN ZEBRAFISH EMBRYOS

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17. FROM HATCHLINGS TO JUVENILES: HISTOLOGICAL ANALYSIS OF HEMOCYTE TISSUE COLONIZATION DURING GROWTH IN THE SNAIL *POMACEA CANALICULATA*

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18. PRELIMINARY OXPHOS GENES ANALYSIS IN THE STRIPED RED MULLET (*Mullus surmuletus Linnaeus*, 1758)

G. Manganaro[1], G.S. Calogero[1], M. Mancuso[1], A. Mazzurco[1], T. Segvic-Bubic[2], V. Ferrito[1], A.M. Pappalardo[1]
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19. IDENTIFICATION OF miR-129-5p AS A COMMON REGULATOR OF E3 UBIQUITIN LIGASES WITH A POTENTIAL ROLE IN GLIOBLASTOMA PROGRESSION

N. Martella[1], A.B. Díaz Méndez[2], G. Regazzo[2], G. F. Bufalieri[3], A. Frati[4], A. Arcella[4], L. Di Marcotullio[3], M.G. Rizzo[2], S. Di Bartolomeo[1]
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20. Se4SAFE: A ONE HEALTH APPROACH TO ASSESS THE SAFETY OF BIOGENIC SELENIUM NANOPARTICLES

A. Mileo[1], S. Boccia[2], B Sgangarella Valvano[3], T. Pannulo[4], F. Esposito[4], L. Saviano[4], G. Libralato[4], M. De Falco[41]Dept. of Life Sciences, Health and Health Professions, Link Campus University, Rome, Italy [2]Dept. of Mental and Physical Health and Preventive Medicine, University of Campania "Luigi Vanvitelli", Naples, Italy [3]*Dept. of Medicine and Health Sciences "Vincenzo Tiberio", University of Molise, Campobasso, Italy* [4]*Dept. of Biology, University of Naples Federico II, Naples, Italy.*

21. INVOLVEMENT OF TELOCYTES IN CARDIAC INFLAMMATION CAUSED BY LPS AND THE POTENTIAL ANTI-INFLAMMATORY ROLE OF *CANNABIS SATIVA* L.

A. Miller[1], G. P. Lombardo[2], A. Nunnari[2], G. Pirracchio[2], M. Kotańska[3], C. Condurso[4], E. R. Lauriano[2], S. Pergolizzi[2]

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22. COORDINATION OF MITOPHAGY AND EMT PROGRAMS IN BRAIN TUMOR CELL PLASTICITY

Ilaria Montano[1] Valeria Nanni1 Manuela Giansanti[2] Veronica Marabitti[1,3] Francesca Nazio[1]

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23. AN AUTOMATED VERTICAL INCUBATOR FOR RAINBOW TROUT (*ONCORHYNCHUS MYKISS*) EMBRYOS TO REDUCE FOOD LOSS DURING EARLY DEVELOPMENT

M. Zarantoniello[1], F. Conti[2], A. Mancini[3],F. Maradonna[1] , Anna Laura Eusebi[4], F. Fatone[4], Ike Olivotto[2]

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24. NUTRACEUTICAL-MEDIATED EFFECTS IN THE MODULATION OF INFLAMMATORY PROCESSES IN AN *IN VITRO* MODEL OF HUMAN ENDOMETRIAL STROMAL CELLS

L. Pietrobelli[1], V.C. Divincenzo[1], L. Sileo[1], G. Scanavino[1], E. Vicini[2], L. Campagnolo[3], V. Corsetti4, A.M. Tata[1]

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25. THE INVASIVE ALGAE CAULERPA RACEMOSA POSES A THREAT TO MUSSEL VIABILITY AND REPRODUCTION

S. Balsamo, T. Chianese, A. Allocca, M. Prisco, R. Scudiero, M. De Falco, L. Rosati

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26. USING HISTOLOGY TO DETECT AND QUANTIFY MICROPLASTICS IN THE COANOCYTES OF THE SPONGE *Paraleucilla magna Kalutau* et al., 2004 (PORIFERA, CALCAREA)

D. Semeraro[1], A. Schiavo[1], M. Fucci[1], M. Mastrodonato[1], G. Scillitani[1], R. Trani[1], J. Aguilo-Arce[2], C. Longo[1]

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27. THE ECHINOCHROME FROM Arbacia *lixula*: CHARACTERIZATION AND BIOACTIVE EFFECTS ON ZEBRAFISH EMBRYOS

Andrea Claudio Stetco[1], Patrizia Pagliara[1], Laura Pecoraro[1], Aurora Mazzei[1], Roberta Schiavone[1], Amilcare Barca[2], Tiziano Verri[1]

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28. EFFECTS OF CHRONIC LOW-TEMPERATURE EXPOSURE ON THE BEHAVIOUR OF ADULT ZEBRAFISH (*DANIO RERIO*)

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29. AUTOPHAGY IS IMPAIRED IN GSCs-ENRICHED GLIOBLASTOMA MODELS

G. Trotto[1], M. Calvitto[1], N. Martella[1], D.Gargano[1],M. Cillo[2], E. Sgambati[1], F. Nazio[3], P. Grumati[2,4], S. Di Bartolomeo[1].
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30. P75NTR MODULATION IMPROVES RESILIENCE TO OXIDATIVE DAMAGE IN A MICROGLIAL CELL MODEL OF PARKINSON'S DISEASE

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Aula Leogrande – Centro Polifunzionale
dell'Università Degli Studi di Bari Aldo Moro
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