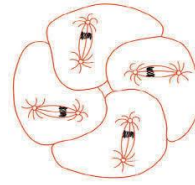




**69° Convegno
GEI - SIBSC**
Napoli 2024
11-14 giugno



GEI-SIBSC
Gruppo Embriologico
Italiano- Società Italiana
di Biologia dello
sviluppo e della cellula -

PROGRAMMA

11 Giugno – Villa Doria D’Angri

14:00 Apertura segreteria

15:30 Saluti di benvenuto

16:00-16:30 Keynote lecture

CHAIRS: *Luciana Dini & Bice Avallone*

Luigia Santella, *Department of Research Infrastructures for Marine Biological Resources, Stazione Zoologica Anton Dohrn*. **WHAT HAPPENS WHEN SPERM MEETS THE EGG: NEW INSIGHTS INTO THE FERTILIZATION PROCESS**

16:30-18:00 SESSION I: GAMETOGENESIS AND FERTILIZATION

CHAIRS: *Maurizio Zuccotti & Gabriella Chieffi*

16:30-16:45 Giulia Fiorentino <i>Università di Pavia</i>	MIRNAs SECRETED BY CUMULUS CELLS AND THEIR ROLE IN THE ACQUISITION OF THE MOUSE OOCYTE DEVELOPMENTAL COMPETENCE
16:45-17:00 Sara Falvo <i>Università della Campania “L. Vanvitelli”</i>	RECENT ADVANCES IN D-ASPARTATE SIGNALING IN TESTICULAR ACTIVITY
17:00-17:15 Mariachiara Galati <i>Università di Messina</i>	BIOLOGICAL EFFECTS OF ENVIRONMENTAL DOSES OF DEXAMETHASONE ON THE REPRODUCTIVE SYSTEM OF MUSSEL <i>Mytilus galloprovincialis</i>
17:15-17:30 Giorgia Gioacchini <i>Università Politecnica delle Marche</i>	NEW INSIGHT INTO MORPHOLOGICAL AND MACROMOLECULAR COMPOSITION OF <i>Mustelus mustelus</i> SPERMATOCYST
17:30-17:45 Marina Piscopo <i>Università di Napoli Federico II</i>	MOLECULAR ANALYSES TO ASSESS POLLUTION-DRIVEN EPIGENETIC ALTERATIONS IN SPERM UNDETECTABLE BY SPERMIOGRAM AND TRANSGENERATIONAL EFFECTS IN YOUNG MEN LIVING IN THE LAND OF FIRES

17:45-18:00 Massimo Venditti <i>Università della Campania “L. Vanvitelli”</i>	A SHORT-TERM HIGH-FAT DIET ALTERS RAT TESTICULAR ACTIVITY AND BLOOD-TESTIS BARRIER INTEGRITY THROUGH THE SIRT1/NRF2/MAPKs SIGNALING PATHWAYS
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18:30 Cocktail di benvenuto

12 Giugno – Complesso SS. Marcellino e Festo

8:30 Apertura segreteria

9:00-9:30 Keynote lecture

CHAIRS: *Rosaria Scudiero & Massimo Pasqualetti*

Gabriella Minchiotti, *Institute of Genetics and Biophysics “Adriano Buzzati-Traverso”, CNR, Naples.* **STEM CELL-BASED EMBRYO MODELS: CHALLENGES AND OPPORTUNITIES FOR BASIC AND TRANSLATIONAL RESEARCH**

9:30-11:00 SESSION II: DEVELOPMENTAL TOXICITY

CHAIRS: *Mario Pestarino & Rosa Carotenuto*

9:30-9:45 Chiara Fogliano <i>Università di Napoli Federico II</i>	DELORAZEPAM TREATMENT EFFECTS ON EARLY EMBRYONIC DEVELOPMENT: A COMPARATIVE STUDY OF TWO MODEL ORGANISMS
9:45-10:00 Francesca Maradonna <i>Università Politecnica delle Marche</i>	ADDRESSING THE TOXICITY OF PFOA ON ZEBRAFISH LARVAL DEVELOPMENT: EXPLORING <i>BACILLUS SUBTILIS</i> NATTO AS A MITIGATING AGENT
10:00-10:15 Elena Menegola <i>Università di Milano</i>	R-FETAX: TERATOGENIC AND NEUROBEHAVIORAL EFFECTS OF ETHANOL
10:15-10:30 Sabrina di Bartolomeo <i>Università del Molise</i>	AMBRA1 PHOSPHORYLATION BY CDK1 AND PLK1 REGULATES MITOTIC SPINDLE ORIENTATION
10:30-10:45 Serena Nazzi <i>Università di Pisa</i>	EARLY-LIFE FLUOXETINE-EXPOSURE INDUCES SEROTONERGIC CIRCUITRY DEVELOPMENTAL ABNORMALITIES AND ANXIETY-LIKE BEHAVIOR IN MICE
10:45-11:00 Chiara Tesoriero <i>Università di Verona</i>	INVESTIGATING THE PATHOGENETIC MECHANISMS OF THE SLC6A1-ASSOCIATED DISORDERS BY ZEBRAFISH KNOCKOUT MODELS

11:00-11:30 Coffee break

11:30-13:30 SESSION III: CYTOTOXICITY AND CELLULAR PROTECTION

CHAIRS: *Giovanni Bernardini & Maria De Falco*

11:30-11:45 Aldo Mileo <i>Università di Napoli Federico II</i>	IMPACT OF BISPHENOL A ON PROSTATE CELL PHYSIOLOGY
11:45-12:00 Eleonora Maceroni <i>Università dell'Aquila</i>	HUMAN AMNIOTIC FLUID STEM CELLS-DERIVED SECRETOME EXERTS NEUROPROTECTIVE EFFECTS IN AN ISCHEMIA/REPERFUSION MODEL
12:00-12:15 Nicla Romano <i>Università della Tuscia</i>	MOLECULAR PROCESSES UNDERLYING HYPERTROPHY IN ICEFISH AS PROMISING TOOLS TO TRANSLATE IN HUMANS MODELS
12:15-12:30 Anna Capaldo <i>Università di Napoli Federico II</i>	COCAINE EFFECTS ON FISH REPRODUCTION: A HISTOLOGICAL, BIOCHEMICAL AND IMMUNOHISTOCHEMICAL STUDY
12:30-12:45 Marco Vito Guglielmi <i>IRSA-CNR</i>	GLYCOHISTOCHEMICAL RESPONSE IN MOLLUSCS FOLLOWING METAL TREATMENTS
12:45-13:00 Marta Giuga <i>Università di Catania</i>	MITOCHONDRIAL DNA COPY NUMBER VARIATION IN RESPONSE TO CHEMICAL POLLUTANTS IN WILDLIFE FISH SPECIES
13:00-13:15 Giuseppe De Marco <i>Università di Messina</i>	CELLULAR ALTERATIONS INDUCED IN GILLS OF MARINE MUSSELS DUE TO DEXAMETHASONE EXPOSURE, AND MITIGATION POTENTIAL OF ULVANS
13:15-13:30 Teresa Chianese <i>Università di Napoli Federico II</i>	EFFECTS OF GLYPHOSATE EXPOSURE ON NON-TUMOR HUMAN PROSTATIC CELLS

13:30-14:30 Lunch

14:30-15:00 Keynote lecture

CHAIRS: *Silvia Garagna & Lucia Rocco*

Romualdo Sciorio, *Lab Director of Fertility Medicine and Gynaecological Endocrinology Unit, Lausanne, Switzerland.* **NOVEL ADVANCEMENTS IN HUMAN EMBRYO CULTURE TO OPTIMIZE SINGLE BLASTOCYST TRANSFER IN ASSISTED REPRODUCTIVE TREATMENTS**

15:00-16:30 SESSION IV: FERTILITY PRESERVATION

CHAIRS: *Vincenza De Gregorio & Lucia Rocco*

15:00-15:15 Andrea Candela <i>Università di Napoli Federico II</i>	EVALUATION OF MATERIAL BIOCOMPATIBILITY FOR MANUFACTURING OVARIAN TISSUE DYNAMIC CULTURE DEVICES
15:15-15:30 Elena Coccia <i>Università del Sannio</i>	POLYPHENOLS TO IMPROVE DIET-INDUCED OVARY INFLAMMATION: A STUDY ON ZEBRAFISH (<i>Danio rerio</i>)
15:30-15:45 Andrea Amaroli <i>Università di Genova</i>	A LIGHT ON ASTHENOZOOSPERMIA: DOES THE NEAR-INFRARED PHOTOBIO-MODULATION THERAPY (PBM-t) OFFER A SUPPORTIVE APPROACH?
15:45-16:00 Andrea Fantinato <i>Università di Pavia</i>	CONFOCAL HISTOLOGY OF THE MOUSE OVARY: A TOOL FOR 3D DIGITAL RECONSTRUCTION
16:00-16:15 Alessandra Gallo <i>Stazione Zoologica "Anton Dohrn"</i>	REPRODUCTIVE TOXICITY RISK ASSESSMENT: NEW STRATEGIES IN INVESTIGATING GAMETE QUALITY
16:15-16:30 Filomena Mottola <i>Università della Campania "L. Vanvitelli"</i>	CYTOTOXIC AND GENOTOXIC EFFECTS OF POLYSTYRENE MICROPLASTICS ON SEA URCHIN SPERMATOZOA

16:30-17:00 Coffee Break

17:00-18:15 SESSION V: STEM CELLS

CHAIRS: *Annamaria Cimini & Rosalba Gornati*

17:00-17:15 Ludovica Barone <i>Università dell'Insubria</i>	HUMAN ADIPOSE STEM CELLS: EVALUATION OF THE IMPACT OF DONORS' AGING ON CELL PROPERTIES AND IMPAIRMENTS
17:15-17:30 Federico La Torre <i>Università di Padova</i>	THE CELL ISLAND NICHE OF THE COLONIAL ASCIDIAN <i>Botryllus schlosseri</i> IS TEMPORARY AND DYNAMIC THROUGH THE ASEXUAL CYCLE
17:30-17:45 Gaia Marcolli <i>Università dell'Insubria</i>	THE MEDICINAL LEECH <i>Hirudo verbana</i> AS INNOVATIVE INVERTEBRATE MODEL TO INVESTIGATE THE REGENERATIVE POTENTIAL OF HUMAN MESENCHYMAL STEM CELLS SOLUBLE FACTORS
17:45-18:00 Stefania Oliveto <i>INGM</i>	THREE-DIMENSIONAL MICRO-SCAFFOLD EFFECTS, DEVELOPMENTAL AND MATRIX STIFFNESS IMPACT ON MESENCHYMAL STEM CELLS AND MESOTHELIOMA CELLS

18:00-18:15 Emanuele Serafini <i>Università di Genova</i>	AXIAL EXTENSION AND CELL DIFFERENTIATION IN DEVELOPING CEPHALOCHORDATES
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18:15 Assemblea soci

19:00 Gita

13 Giugno Complesso SS. Marcellino e Festo

9:00-9:30 Keynote lecture

CHAIRS: *Paolo Marcello Peretto & Massimo Pasqualetti*

Elia Di Schiavi, *Institute of Biosciences and BioResources, CNR, Naples*. **EXPLOITATION OF SMN ROLE IN NEURON DEVELOPMENT USING A *C. elegans* MODEL**

9:30-11:00 SESSION VI: NEURODEVELOPMENT

CHAIRS: *Enrico Tongiorgi & Ida Ferrandino*

9:30-9:45 Silvia De Marchis <i>Università di Torino</i>	EXPLORING PATHOGENIC MECHANISMS OF BBSOAS NEURODEVELOPMENTAL DISORDER: INSIGHTS FROM THE ADULT MOUSE DENTATE GYRUS NEUROGENIC NICHE
9:45-10:00 Luca Del Giacco <i>Università di Milano</i>	DIFFERENTIATION AND FUNCTIONING OF THE LATERAL LINE ORGAN IN ZEBRAFISH REQUIRE SMPX ACTIVITY
10:00-10:15 Ilaria Olivito <i>Università della Calabria</i>	KETOSIS MODULATES NEURAL NETWORK AND BDNF EXPRESSION IN PRIMARY PFC AND HIP NEURONAL CULTURES OF BTBR MICE
10:15-10:30 Viviana Ciraci <i>Università di Trieste</i>	THE 7 STAGES OF NEURONAL DEVELOPMENT IN VITRO: MORPHOLOGICAL AND MOLECULAR SIGNATURES FROM BIRTH TO SENESCENCE
10:30-10:45 Michela Ori <i>Università di Pisa</i>	MODELING RARE NEURODEVELOPMENTAL DISORDERS: PITT HOPKINS SYNDROME AND DE NOVO PATHOGENETIC VARIANTS OF THE TCF4 GENE
10:45-11:00 Pietro Cacialli <i>Università di Bologna</i>	DISSECTING THE EMBRYONIC ZEBRAFISH BRAIN AT A SINGLE CELL LEVEL TO UNVEIL THE HIDDEN SECRETS OF MICROGLIA-NEURON INTERACTIONS

11:00-11:30 Coffee break

11:30-13:30 SESSION VII: NEUROBIOLOGY

CHAIRS: *Simona Candiani & Bice Avallone*

11:30-11:45 Elisabetta Carata <i>Università del Salento</i>	mSOD1NSC-34 MOTONEURON-LIKE CELLS DERIVED EXTRACELLULAR VESICLES MODULATE THE NEUROINFLAMMATION IN MICROGLIAL CELLS VIA CX3CR1/TGF β RII AXIS
11:45-12:00 Giulia Abruscato <i>Università di Palermo</i>	IMMUNOMODULATORY AND PROTECTIVE EFFECTS OF EXTRACTS FROM GREEN LEAVES AND RHIZOMES OF <i>P. oceanica</i> (L.) DELILE ON RAW 264.7 MACROPHAGES AND A HUMAN BLOOD-BRAIN BARRIER MODEL
12:00-12:15 Stefania Farina <i>Università dell'Aquila</i>	LRRK2, A KINASE IMPLICATED IN CANCER AND NEURODEGENERATION, PARTICIPATES IN DNA REPAIR
12:15-12:30 Mariana Karimova <i>Sapienza-Università di Roma</i>	GLIOBLASTOMA MULTIFORME CELL COMMUNICATION IS MEDIATED BY EXTRACELLULAR VESICLES DURING TEMOZOLOMIDE TREATMENT
12:30-12:45 Mariano Catanesi <i>Università dell'Aquila</i>	GENOTOXIC STRESS INDUCED BY MECHANICAL FORCE IN CELLULAR MODELS OF PARKINSON'S DISEASE
12:45-13:00 Claudia Guerriero <i>Sapienza-Università di Roma</i>	CORRELATION BETWEEN AUTOPHAGY AND APOPTOSIS IN HUMAN GLIOBLASTOMA CANCER STEM CELLS: ROLE OF M2 RECEPTOR AND mTOR COMPLEX-1
13:00-13:15 Raffaella Alò <i>Università della Calabria</i>	VASOSTATIN 1 MODULATES AUTISM-LIKE BEHAVIORS AND HIPPOCAMPAL NEUROINFLAMMATION IN BTBR MICE
13:15-13:30 Deianira Bellitto <i>Università di Genova</i>	SYNAPTO-GLIOSOMAL CHARACTERIZATION IN A ZEBRAFISH MODEL OF ALEXANDER DISEASE

13:30-14:30 Lunch

14:30-16:00 SESSION VIII: CELLULAR RESPONSES

CHAIRS: *Marco Colasanti & Maria Maddalena Di Fiore*

14:30-14:45 Roberta Imperatore <i>Università del Sannio</i>	PROTECTIVE EFFECTS OF POLYPHENOLS ON DIET-INDUCED MUSCLE DEGENERATION IN ZEBRAFISH (<i>Danio rerio</i>)
14:45-15:00 Martina Sette <i>Università dell'Aquila</i>	UNRAVELING THE MECHANISMS OF SYSTEMIC IRON REGULATION AND THEIR EFFECTS ON THE CENTRAL NERVOUS SYSTEM
15:00-15:15 Donatella Mentino <i>Università di Bari</i>	AQUAPORIN-9 (AQP9) PLAYS A ROLE IN THE SYSTEMIC DISORDERS UNDERLYING THE WOLMAN DISEASE
15:15-15:30 Christina Pagiatakis <i>Università dell'Insubria</i>	EPIGENETIC REGULATION OF ENHANCERS REGULATING AGING
15:30-15:45	REGENERATION OF ZEBRAFISH RETINA FOLLOWING TOXIC INJURY

Alessandra La Pietra <i>Università di Napoli Federico II</i>	
15:45-16:00 Silvana Zungaro <i>Università dell'Aquila</i>	TOMATO AND OLIVE BIOACTIVE COMPOUNDS MODULATE ZEBRAFISH TAIL REGENERATION PROCESS

16:00-16:30 Coffee break

16:30-18:15 SESSION IX: EVOLUTION AND CELLULAR MECHANISMS

CHAIRS: *Claudio Luparello & Davide Malagoli*

16:30-16:45 Nicola Franchi <i>Università di Modena e Reggio Emilia</i>	FROM IMMUNE DEFENCE TO DEVELOPMENT: UNVEILING THE ROLES OF THE COMPLEMENT SYSTEM IN GASTROPODS
16:45-17:00 Valentina Cianfanelli <i>Università Roma Tre</i>	PROTEIN PHOSPHORYLATION ORCHESTRATES SELECTIVE AUTOPHAGY TO SECURE ORGANELLE HOMEOSTASIS
17:00-17:15 Maria Assunta Biscotti <i>Università Politecnica delle Marche</i>	HOW DOES ZEBRAFISH KEEP TRANSPOSABLE ELEMENTS UNDER CONTROL?
17:15-17:30 Liliana Milani <i>Università di Bologna</i>	NEW ANIMAL MODEL SYSTEMS IN THE STUDY OF AGEING AND LONGEVITY
17:30-17:45 Gabriele Sansalone <i>Università di Modena e Reggio Emilia</i>	THE EFFECT OF VARIATION IN FUNCTIONAL TRADE-OFFS ON CARNIVORES' CRANIAL MORPHOLOGICAL DIVERSITY
17:45-18:00 Federica Spani <i>Università Campus Bio-Medico di Roma</i>	UNVEILING PRIMATE BACULUM MORPHOLOGY: INSIGHTS FROM ADVANCED COMPARATIVE TECHNIQUES
18:00-18:15 Federica Carducci <i>Università Politecnica delle Marche</i>	UNRAVELLING POTENTIAL VITELLOGENIN RECEPTORS FROM AN EXTENSIVE CHARACTERIZATION OF LOW DENSITY LIPOPROTEIN RECEPTOR SUPERFAMILY IN THE AMPHIBIAN <i>Cynops orientalis</i>

20:30 Cena sociale (Villa Doria D'Angri)

14 Giugno Complesso SS. Marcellino e Festo

9:00-9:30 Keynote lecture

CHAIRS: *Maria Maisano & Fiorenza De Bernardi*

Claudia Tortiglione, *Istituto di Scienze Applicate e Sistemi Intelligenti "E. Caianiello", CNR, Pozzuoli. **ADVANCED NANOTOOLS TO ENHANCE REGENERATION IN CNIDARIAN MODEL ORGANISMS***

9:30-11:00 SESSION X: NANOPARTICLES - BIOLOGICAL EFFECTS

CHAIRS: *Maria Maisano & Palma Simoniello*

9:30-9:45 <u>Valentina Marchesano</u> <i>CNR - ISASI</i>	PLASMONIC NANOPARTICLES AND OPTICAL HYPERTERMIA TO STIMULATE TISSUE REGENERATION
9:45-10:00 <u>Rossella Bengalli</u> <i>Università di Milano-Bicocca</i>	A NEW APPROACH METHODOLOGY TO EVALUATE THE BIOLOGICAL IMPACT OF SILVER NANOMATERIALS IN HUMAN LUNG
10:00-10:15 <u>Camilla Bon</u> <i>Università dell'Insubria</i>	EXPLORING THE IMPACT OF PET NANOPLASTIC DISPERSION IN WATER ON THE ACTIVATION OF THE INNATE IMMUNE RESPONSE IN <i>Hirudo verbena</i>
10:15-10:30 <u>Patrizia Cancemi</u> <i>Università di Palermo</i>	DECIPHERING THE IN VITRO TOXICITY OF BIOGENERATED SILVER NANOPARTICLE IN BREAST CANCER: A MULTIOMICS ANALYSIS
10:30-10:45 <u>Roberta Pecoraro</u> <i>Università di Catania</i>	COMPARATIVE TOXICITY OF COPPER-BASED NANOPARTICLES ON ZEBRAFISH EMBRYOS
10:45-11:00 <u>Marina Prisco</u> <i>Università di Napoli Federico II</i>	A NEW NANODELIVERY TOOL FOR TARGETED TEMOZOLOMIDE DELIVERY TO GLIOBLASTOMA CELLS

11:00-11:30 Coffee break

11:30-13:00 SESSION XI: MICROPARTICLES - BIOLOGICAL EFFECTS

CHAIRS: *Tiziana Cappello & Luigi Rosati*

11:30-11:45 <u>Cinzia Bragato</u> <i>Università di Milano-Bicocca</i>	THE USE OF ZEBRAFISH EMBRYOS TO EXPLORE DIFFERENT NATURAL POLYPHENOL APPLICATIONS
11:45-12:00 <u>Chiara Maria Motta</u> <i>Università di Napoli Federico II</i>	POLYSTYRENE MICROBEADS RELEASE VOLATILE COMPOUNDS: EFFECT ON <i>Artemia salina</i> EARLY DEVELOPMENT
12:00-12:15 <u>Elena Maria Scalisi</u> <i>Università di Catania</i>	THE INFLUENCE OF TiO ₂ ON CHORIONALLANTOIC MEMBRANE AND EMBRYO DEVELOPMENT OF <i>Gallus gallus domesticus</i>
12:15-12:30 <u>Daniela Semeraro</u> <i>Università di Bari</i>	METALLIC ENGINEERED ZERO VALENT NANOPARTICLES ALTER MUCOUS SECRETIONS OF EMBRYONIC EPIDERMIS IN THE POOL FROG <i>Pelophylax lessonae</i>

12:30-12:45 Rossana Romano <i>Università di Napoli "Parthenope"</i>	POLYSTYRENE TRIGGERS CELL STRESS IN MUSSELS: ANALYSIS OF MORPHOFUNCTIONAL AND PHYSIOLOGICAL EFFECTS
12:45-13:00 Rosaria Sciarrillo <i>Università del Sannio</i>	A COMPARATIVE ANALYSIS OF THE MICROBIOME OF GUT, LIVER, AND TESTIS IN AN OVIPAROUS LIZARD <i>Podarcis siculus</i>

13:00-14:00 Comunicazione vincitori premi miglior poster e miglior presentazione

14:00-15:00 Lunch