

SOCIETÀ ITALIANA DI
SIBS
1923
BIOLOGIA SPERIMENTALE



uniss
UNIVERSITÀ DEGLI STUDI DI SASSARI

DIPARTIMENTO
DI SCIENZE BIOMEDICHE

92° CONGRESSO DELLA SOCIETÀ ITALIANA DI BIOLOGIA SPERIMENTALE

Sassari 2-3-4 Dicembre 2019
Aula Magna dell' Università degli Studi di Sassari
Piazza Università 22, 07100

LA BIOLOGIA SPERIMENTALE NELLO SPAZIO E NEL TEMPO

RICERCA E VERITA' SCIENTIFICA

PROGRAMMA

2 DICEMBRE 2019



14.00 Registrazione partecipanti

15.00 SALUTO DELLE AUTORITÀ E APERTURA LAVORI

15.30 RICORDANDO IL PROF. PIPPIA - LAURA MANCA

15.40 LETTURA QUAGLIARIELLO - FRANCESCO CAPPELLO

THE ROLE OF HUMAN ANATOMY IN THE BATTLE AGAINST PSEUDOSCIENCE

Sessione 1

BIOLOGIA IN AMBIENTI ESTREMI: DALLO SPAZIO ALLA PROFONDITA' DEL MARE

MODERATORI: Antonella Pantaleo, Giacomo Cao

16.10 LETTURA - Giacomo Cao EXTREMOPHILE MICROALGAE FOR BIOTECHNOLOGICAL APPLICATIONS

Veronica Malvasi, Santina Soru, Alessandro Concas, Massimo Pisu, Giacomo Fais, Pierluigi Caboni, Giacomo Cao

16.40 OSTEOGENIC POTENTIAL OF ENGINEERED NANOMATERIALS UNDER MICROGRAVITY SIMULATION

Elisabetta Avitabile, Silvia Minardi, Salvatore Marceddu, Antonella Pantaleo

16.55 BIOLOGY IN ESA CAVES: AN UNDERGROUND MONITORING PROGRAM DEVELOPED FOR ASTRONAUT TRAINING

Paolo Marcia

17.10 SPACE MEDICINE: USE OF EX VIVO HUMAN RESPIRATORY MUCOSA IN THE SURVEY OF THE EFFECTS OF MICROGRAVITY ON THE RESPIRATORY SYSTEM

Alberto Fucarino, Alessandro Pitruzzella, Francesco Cappello, Fabio Bucchieri

17.25 - 17.40 Discussione

17.40 - 18.00 Coffee break



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2 DICEMBRE 2019



MODERATORI: Giulia Ceccherelli, Marco Casu

18.00 LETTURA - Giulia Ceccherelli CLIMATE CHANGE AND EXPERIMENTAL MARINE ECOLOGY

18.30 INTEGRATIVE MARINE ZOOLOGY AS A TOOL TO FACE THE RUN TO EXTINCTION OF A MEDITERRANEAN FLAG SPECIES, THE FAN MUSSEL SHELL

Fabio Scarpa, Daria Sanna, Ilenia Azzena, Giuseppe Esposito, Piero Cossu, Aldo Zanello, Vittorio Gazale, Elisabetta Antuonfermo, Marino Prearo, Marco Casu

18.45 DEEPEN THE KNOWLEDGE ABOUT SPIRAL VALVE AND ASSOCIATED LYMPHOID TISSUE (GALT) OF THE SMALL-SPOTTED CATSHARK *SCYLORHINUS CANICULA* (LINNAEUS, 1758)

Gioele Capillo, Marialuisa Aragona, Marco Albano, Simona Pergolizzi, Maria Cristina Guerrero, Eugenia Rita Lauriano

19.00 TAXONOMIC DIVERSITY AND FUNCTIONAL TRAITS OF NEMATODE ASSEMBLAGES IN INTERTIDAL HABITATS ALONG ADRIATIC SEA COAST, ALBANIA

Fundime Miri

19.15 - 19.30 Discussione

19.30 POSTER 1 *MERLUCCIIUS MERLUCCIIUS* AND *CHLOROPHTALMUS AGASSIZI*: SIMILARITY AND DIFFERENCES OF MICROPLASTICS INGESTED

Giuseppe Panarello, Serena Savoca, Gioele Capillo, Teresa Bottari, Monique Mancuso, Marco Albano, Nunziacarla Spanò

19.33 POSTER 2 PLASTIC OCCURENCE IN *PELAGIA NOCTILUCA* FROM THE STRAIT OF MESSINA
Serena Savoca, **Marco Albano**, Giuseppe Panarello, Gioele Capillo, Antonella Granata, Letterio Guglielmo, Giovanna D'Angelo, Caterina Branca, Teresa Bottari, Monique Mancuso, Nunziacarla Spanò

19.36 POSTER 3 CHRONICLES OF THE PARTHENOGENETIC MARBLED CRAYFISH INVASION IN THE SARDINIAN FRESH WATERS

Ilenia Azzena, Fabio Scarpa, Piero Cossu, Angela Pira, Flavio Gagliardi, Marco Casu, Daria Sanna

19.40 CHIUSURA LAVORI



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3 DICEMBRE 2019



Sessione 2

NUTRIZIONE E SALUTE UMANA

MODERATORI: Massimo Cocchi, Margherita Maioli

09.30 **LETTURA** - Massimo Cocchi

LINOLEIC ACID, CHOLESTEROL AND CELL MEMBRANE
CHARACTERISTICS OF THE CELL MEMBRANE AND ION CHANNELS
Gustav Bernroeder, Massimo Cocchi

10.00 INFLUENCE OF MATERNAL FACTORS ON PRENATAL AND NEONATAL GROWTH **Françoise Demoulin**

10.15 - 10.30 **DISCUSSIONE**

10.30 **POSTER 4** GAMMA-AMINOBUTYRIC ACID CONTENT IN FIORE SARDO CHEESE RELATED TO FREE AMINO ACIDS AND COMPOSITION

Gavina Manca, Antonio Ru, Giuliana Siddi, Gavino Murittu, Enrico Pietro Luigi De Santis

10.33 **POSTER 5** DETECTION OF THE DIFFUSION AND KNOWLEDGE OF ENERGY DRINKS, CONDUCTED THROUGH A STATISTICAL SURVEY ON PALERMO AREA

Fabio Venturella, Chiara Schimmenti, **Giulia Cancellieri**, Marina Teresi

10.36 **POSTER 6** STEM CELLS AND NUTRICEUTICALS: EXTRACTS FROM MYRTLE MODULATE OXIDATIVE STRESS AND SENESCENCE

Sara Cruciani, Sara Santaniello, **Giuseppe Garroni**, Angela Fadda, Giorgia Sarais, Maurizio
Mulas, Carlo Ventura, Margherita Maioli



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Sessione 3

BIOLOGIA, FARMACOLOGIA E GENETICA

MODERATORI: Francesco Cucca, Carlo Ventura

10.40 LETTURA - Francesco Cucca

FROM GENES TO MECHANISMS TO THERAPEUTIC OPPORTUNITIES: THE SPECIAL CASE OF SARDINIA

11.10 - 11.40 COFFEE BREAK

11.40 OVEREXPRESSION OF THE CYTOKINE BAFF AND AUTOIMMUNITY RISK

Maria Laura Idda, Maristella Steri, Valeria Orrù, Maristella Pitzalis, Mauro Pala, Carlo Sidore, Matteo Floris, John Novembre, Gonçalo Rocha Abecasis, Michael Bernard Whalen, Serena Sanna, Myriam Gorospe, David Schlessinger, Edoardo Fiorillo, Magdalena Zoledziewska, Francesco Cucca

11.55 THE IMPACT OF HUMAN GENETICS IN DRUG DISCOVERY

Matteo Floris, Maria Laura Idda, Maristella Steri, Valeria Orrù, Valeria Lodde, Francesco Cucca

12.10 SKIN STEM CELLS: ISOLATION, CHARACTERISATION AND CULTURING CONDITIONS

Emanuela Bellu, Giuseppe Garroni, Franca Balzano, Rossana Satta, Maria Antonietta Montesu, Sara Cruciani, Margherita Maioli

12.25 CELLULAR MECHANISMS AND PHYTOCHEMICALS: DEFINING NOVEL STRATEGIES FOR TISSUE REGENERATION

Sara Cruciani, Roberta Addis, Sara Santaniello, Emanuela Bellu, Giorgio Pintore, Margherita Maioli

12.40 LETTURA DECIPHERING MECHANICAL AND ELECTROMAGNETIC PATTERNS FROM STEM CELL DYNAMICS: A NOVEL APPROACH TO REGENERATIVE MEDICINE

Carlo Ventura

13.10 - 13.25 DISCUSSIONE

13.25 - 14.30 LIGHT LUNCH

MODERATORI: Antonella Pantaleo, Margherita Maioli

14.30 ARTEMISININ INDUCED O₂- AND H₂O₂ SPECIES DETERMINATION IN OXIDIZED ERYTHROCYTES

Ioannis Tsamesidis, Chinedu Egwu, Cristina D'Avino, Pierre Péro, Antonella Pantaleo, Karine Reybier

14.45 SYK INHIBITORS AS NEW ANTIMALARIAL DRUGS

Giuseppe Marchetti, Alessandro Dessì, Roberto Dalocchio, Ioannis Tsamesidis, Alessia Manca, Cristina D'Avino, Antonella Pantaleo

15.00 IN-VIVO NEUROCHEMISTRY IN REAL TIME: THE USE OF ELECTROCHEMICAL MICRO- AND BIO-SENSORS

Gaia Rocchitta, Pier Andrea Serra

15.15 META-ANALYSIS OF RNA-SEQ DATA TO GAIN INSIGHT INTO CROP RESPONSES TO HARSH ENVIRONMENTS

Federico Martinelli, Jubina Benny, Anna Perrone, Tiziano Caruso

15.30 CHARACTERIZATION OF VAPB AGGREGATES IN PBMC OF ALS PATIENTS

Maria Piera L. Cadoni, Giannina Arru, Anand Goswami, Gian Pietro Sechi, Roberto Manetti, Grazia Galleri

15.45-16.00 DISCUSSIONE

16.00 POSTER 7 OBLIGATORY ROLE OF ENDOPLASMIC RETICULUM IN BRAIN FDG UPTAKE

Vanessa Cossu, Cecilia Marini, Patrizia Piccioli, Anna Rocchi, Silvia Bruno, Anna Maria Orengo, Laura Emionite, Matteo Bauknecht, Federica Grillo, Selene Capitanio, Enrica Balza, Patrizia Castellani, Giacomo Caviglia, Isabella Panfoli, Silvia Morbelli, Silvia Ravera, Fabio Benfenati, Gianmario Sambucetti

16.03 POSTER 8 A NEW METHOD TO MEASURE REACTIVE OXYGEN SPECIES IN ERYTHROCYTE SYSTEM

Ioannis Tsamesidis, Chinedu Egwu, Pierre Péro, Françoise Benoit-Vical, Jean-Michel Augereau, Karine Reybier

16.06 POSTER 9 STATISTICS OF DATA RELATED TO AMAZING SUBSTANCES ANALYZED AT THE

"LABORATORY OF CHEMICAL INVESTIGATIONS" OF THE PALERMO SCIENTIFIC POLICE

Fabio Venturella, **Anastasia Valentina Liga**, Giulia Napoli, Domenica Scalavino

16.09 POSTER 10 SMOKING INFLUENCE ON MALE AND FEMALE PHENOTYPES

Iliara Campesi, Andrea Montella, Mario Palermo, Giovanni Sotgiu, Flavia Franconi



Sessione 4

MEDICINA E SCIENZA TRASLAZIONALE

16.12 POSTER 11 CROSS TALK BETWEEN FATTY ACID AND CYTOKINES IN ALS PATIENTS

Maria Piera L. Cadoni, Laura Mameli, Giada Lostia, Gavino Pisanu, Alessandra Errigo, Gianni Mario Pes, Roberto Manetti, Grazia Galleri

16.15 POSTER 13 URINARY TRYPSIN INHIBITOR (UTI) QUANTITATION AND STRUCTURAL CHARACTERIZATION IN TYPE 1 AND TYPE 2 DIABETES

Antonio Junior Lepedda, Gabriele Nieddu, Silvia Rocchiccioli, Pierina De Muro, **Marilena Formato**

16.18 POSTER 14 TESTING THE EFFECTIVENESS OF A NEW PROMISING ACETYLCHOLINESTERASE INHIBITOR FOR ALZHEIMER'S DISEASE USING *DROSOPHILA MELANOGASTER* TRANSGENIC MODEL

Alessia Manca, Giuseppe Uras, Marios Georgiou, Antonella Pantaleo, Zheyang Zhu

16.21 POSTER 15 LEVETIRACETAM TREATMENT AMELIORATES LRRK2 PATHOLOGICAL MUTANT PHENOTYPE

Mauro Rassu, Alice Biosa, Manuela Galio, **Milena Fais**, Paola Sini, Elisa Greggio, Giovanni Piccoli, Chiara Camoglio, Fabrizio Fae, Mai Uyên Thi Trần, Claudia Crosio, Ciro Iaccarino

16.24 POSTER 16 TDP-43 PHYSIOPATHOLOGY AND CYANOTOXINS EXPOSURE

Paola Sini, Milena Fais, Manuela Galio, Hanane Bouhssira, Laura Tuffu, Ciro Iaccarino, Claudia Crosio

16.27 POSTER 17 ANALYSIS OF THE METABOLIC PATHWAY OF POLYAMINES IN HUMAN PLASMA WITH LIQUID CHROMATOGRAPHY - TANDEM MASS SPECTROMETRY

Donatella Coradduzza, Emanuela Azara, Nicola Culeddu, Serenella Medici, Criaco Carru

16.30 Poster 18 Metabolic rates during daily living activities in people with multiple sclerosis.

Gianluca Martinez, Lucia Ventura, Antonella Cano, Elena Aiello, Andrea Manca, Franca Deriu

Sessione 5

LA BIOLOGIA NEL TEMPO

16.33 POSTER 19 ANALYSIS OF THE RECIPE OF A REPUBLIC AGE ROMAN FUNERARY BREAD FROM THE ANCIENT FORUM LIVII (PIAZZALE DELLA VITTORIA), FORLÍ, ITALY BY MEANS OF FTIR AND SEM TECHNIQUES

Annamaria Alabiso, Maria Grazia Bridelli, Davide Orsi, Romina Pirraglia, Mirko Traversari

16.36 - 17.50 COMUNICAZIONI SPONSOR

17.50 CHIUSURA LAVORI

18.00 COFFEE BREAK

18.30 RIUNIONE SOCI SIBS

20.00 CENA SOCIALE

Sessione 4 **MEDICINA E SCIENZA TRASLAZIONALE**

MODERATORI: Marilena Formato, Pier Andrea Serra

09.15 LETTURA - Claudio Foza

THE IMMUNE LANDSCAPE OF MYELODYSPLASTIC SYNDROMES
Claudio Foza, Valeria Crobù, Maria Antonia Isoni, Fausto Dore

09.45 EPIGENETIC PROFILING AND THERAPEUTICS IN LIVER DISEASE

Rosaria Maria Pipitone, Rossella Zito, Marco Giammanco, **Stefania Grimaudo**

10.00 LOCALIZATION AND LEVELS OF HSP60 IN TISSUE SAMPLES OF NORMAL AND PATHOLOGICAL HUMAN STOMACH

Alessandro Pitruzzella, Francesca Rappa, Alberto Fucarino, Fabio Bucchieri, Pietro Lo Presti, Francesco Cappello

10.15 ALTERATION IN VESICLE TRAFFICKING IN PARKINSON'S DISEASE: FROM PATHOLOGICAL MOLECULAR MECHANISMS TO THERAPEUTIC OPTION

Mauro Rassu, Milena Fais, Manuela Galioto, Paola Sini, Chiara Camoglio, Fabrizio Fae, Mai Uyên Thi Trần, Claudia Crosio, **Ciro Iaccarino**

10.30

CANCER EPIDEMIOLOGY IN ITALIAN MILITARY PERSONNEL DEPLOYED ABROAD (AGE LESS THAN 60 YEARS, 1996-2012). FROM THE DATA OF THE INQUIRY PARLIAMENTARY COMMISSION ON DEPLETED URANIUM AND VACCINES.

Valerio Gennaro, Stefano Parodi, Sabrina Zanardi, Omero Negrisola, Loretta Bolgan, Ivan Catalano

10.45

THE INFLUENCE OF DISEASE COURSE AND GENDER ON METABOLIC RATES AND OXYGEN COST OF WALKING: A COMPARATIVE STUDY OF PEOPLE WITH MULTIPLE SCLEROSIS AND HEALTHY SUBJECTS.

Antonella Cano, Lucia Ventura, Gianluca Martinez, Alon Kalron, Andrea Manca, Franca Deriu

11.00 - 11.15 DISCUSSIONE

11.15 - 11.40 COFFEE BREAK

4 DICEMBRE 2019



Sessione 5 **LA BIOLOGIA NEL TEMPO**

MODERATORI: Emma Rabino, Marco Milanese

11.45 LETTURA - Marco Milanese

BIOARCHAEOLOGY OF THE URBAN AND RURAL SOCIETIES OF NORTH-WESTERN SARDINIA BETWEEN XIV AND XVII CENTURY

Marco Milanese, A.Bini

12.15 THE GREEN MUMMY OF BOLOGNA: A MULTIDISCIPLINARY APPROACH TO THE STUDY OF MUMMIFICATION PROCESS

Annamaria Alabiso, Maria Grazia Bridelli, Maria Carla Mazzotti, Federica Fersini, Raffaele Gaeta, Luca Saragoni, Susi Pelotti, Donata Luiselli, Mirko Traversari

12.30 FROM NATURE TO MAN: ENVIRONMENTAL ANTHROPOLOGY IN THE ANTHROPOCENE **Ani Bajrami**

12.45 INFRARED SPECTROSCOPY FOR THE STUDY OF THE BIOMOLECULES OF THE PAST **Maria Grazia Bridelli**

13.00 - 13.15 DISCUSSIONE

13.15 CONSEGNA PREMI

13.30 CHIUSURA LAVORI LIGHT LUNCH



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