Società Italiana di Biochimica

**e Biologia Molecolare**

# Università degli Studi di Pavia

**32a Riunione Nazionale**

***“A. Castellani”***

#### dei Dottorandi

**di Ricerca**

**in Discipline Biochimiche**

**(32nd *“A. Castellani”* Meeting of PhD students in biochemical sciences)**

**BRALLO DI PREGOLA (Pavia)**

**13 - 16 settembre 2021**

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PROGRAMMA

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# COMITATO SCIENTIFICO-ORGANIZZATIVO

 Cesare Balduini Giampaolo Minetti

 Vittorio Bellotti Giampiero Pietrocola

 Roberta Besio Marina Porcelli

 Ilaria Canobbio Sara Raimondi

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 Antonella Forlino Annalisa Santucci

 Gianfranco Gilardi Maria Enrica Tira

 Sofia Giorgetti Mauro Torti

 Gianni Guidetti Simona Viglio

 Palma Mangione

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 **MONDAY, SEPTEMBER 13th, 2021**

**17.00-20.00** Registration & check-in

**20:00 DINNER**

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 **TUESDAY, SEPTEMBER 14th, 2021**

**8.50-9.00** Opening remarks

Chair: Vittorio Bellotti

**9.00-9:50** Prof. ILDIKO SZABO (Padova)
Mitochondrial ion channels: linking biophysics to bioergenetics and pathologies

**09.50-10.10** Chiara D'Aprile (Milano)
Effect of a remyelination promoting antibody on the sphingolipid pattern of a microglial cell line

**10.10-10.30** Lorenzo Germelli (Pisa)
The 18-kDa translocator protein (TSPO) promotes microglia neurosteroidogenesis to restore CNS homeostasis

 **COFFEE BREAK**

Chair:

**11.20-11.40** Ignazio Restivo (Palermo)
Cigarette smoke extract induces eryptosis by death-inducing-signaling-complex (DISC) assembly leading to ceramide formation and p38 MAPK activation

**11.40-12.00** Dorina Dobi (Milano)
CFTR modulators and sphingolipids: new insight in the treatment of cystic fibrosis

**12.00-12.20** Emma Veronica Carsana (Milano)
GCase-related pathologies and neurodegeneration: plasma membrane and metabolic implications

 **LUNCH**

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Chair:

**14.30-15.20** Prof. GENNARO CILIBERTO (Roma/Catanzaro)
Birth, development and glory of genetic vaccines and the seminal contribution of an Italian group

**15.20-15.40** Camilla Isgrò (Bari)
Searching for effective inhibitors of the main protease (Mpro) of SARS-CoV-2: an in silico and in vitro study

**15.40-16.00** Tania Vanzolini (Urbino)
In vitro activity of Dia-T51, the new humanized monoclonal antibody against β-1,3-glucans of pathogenic fungi

 **COFFEE BREAK**

Chair:

**16.00-16.20** Emanuele Criscuolo (Roma)
In silico and in vitro analysis of major cannabis-derived compounds as tools to modulate fatty acid amide hydrolase

**16.20-16.40** Marina Fava (Teramo)
Endocannabinoid and pro-resolving lipid mediators act sinergically in primary human macrophages

**19:30 DINNER**

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**21.00-23.00** Serata caminetto:
**Ruolo della comunicazione scientifica in una virtuosa relazione
scienza-società**

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 **WEDNESDAY, SEPTEMBER 15th, 2021**

Chair:

**9.00-10:00** Prof. GIUSEPPE DE NICOLAO (Pavia)
Artificial intelligence for biomedicine: boundaries, horizons, limits

**10:00-10.25** Claudia Grillo (Torino)
Directed evolution on cytochrome P450 BM3 A2 mutant

**10.25-10.50** Marco Minacori (Roma)
β-hexachlorocyclohexane induces STAT3-mediated chemoresistance in HER2-positive cancer cells

 **COFFEE BREAK**

Chair:

**11.20-11.45** Vitale Del Vecchio (Napoli)
β2-AR blockade potentiates ERK/MEK inhibitors effect on HNSCC by regulating Nrf2-mediated defense mechanism

**11.45-12.10** Glenda Oliveira (Milano)
Defining the molecular landscape of reparative cardiac cells by MS-imaging and advanced MS-proteomics approaches

**12.10-12.35** Eleonora Quartieri (Parma)
NMR metabolic profiling of whole, parotid and submandibular/sublingual saliva for diagnostics purpose

 **LUNCH**

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Chair:

**14.30-15.20** Prof. PAOLA CHIARUGI (Firenze)
Tumor metabolic deregulation: lactate and its unconventional role

**15.20-15.40** Vanna Denti (Milano)
MALDI-MSI analysis of lipid alterations in FFPE patient-derived breast cancer xenograft for pre-clinical and clinical application

**15.40-16.00** Assia Duatti (Firenze)
Stromal lactate promotes prostate cancer aggressiveness by enhancing collagen-dependent cancer cell colonization

 **COFFEE BREAK**

Chair:

**16.00-16.20** Francesca Vitiello (Napoli)
Antitumor activity of AdoMet through the modulation of miRNA888-5p in laryngeal carcinoma cells

**16.20-16.40** Stefano Zoroddu (Sassari)
Antineoplastic properties of new synthetic molecules

**16.40-17.10** Alfredo Smiriglia (Firenze)
Studying the role of estrogens using a human embryonic pluripotent stem cell model of non-alcoholic fatty liver disease

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 **THURSDAY, SEPTEMBER 16th, 2021**

Chair:

**9.00-9.50** Prof. ANDREA BELLELLI (Roma)
Thioredoxin reductase: functions, catalytic mechanisms and inhibitors

**9.50-10.10** Anastasia Ricci (Urbino)
DDIT4 gene expression is switched on by a new HDAC4 function in ataxia teleangiectasia

**10.10-10.30** Maria Rosaria Coppola (Genova)
Development of a zebrafish model for Catel-Manzke disease

**10.30** **CLOSING REMARKS**

 **COFFEE BREAK AND DEPARTURE**

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