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

Nazzareno Capitanio Antonio Rossi

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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