Società Italiana di Biochimica

**e Biologia Molecolare**

# Università degli Studi di Pavia

**33a Riunione Nazionale**

***“A. Castellani”***

#### dei Dottorandi

**di Ricerca**

**in Discipline Biochimiche**

**(33rd *“A. Castellani”* Meeting of PhD students in biochemical sciences)**

**BRALLO DI PREGOLA (Pavia)**

**6 - 9 giugno 2022**

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PROGRAMMA

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# COMITATO SCIENTIFICO-ORGANIZZATIVO

Cesare Balduini Vittorio Bellotti

Roberta Besio Antonella Forlino

Sofia Giorgetti Francesco Malatesta

Giampaolo Minetti Marina Porcelli

Antonio Rossi Maria Enrica Tira

Francesca Tonelli Mauro Torti

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**MONDAY, JUNE 6th, 2022**

**17:00-20:00** Registration & check-in

**20:00 DINNER**

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**TUESDAY, JUNE 7th, 2022**

**8:50-9:00** Opening remarks

Chair: Vittorio Bellotti

**9:00-9:50** Prof. MICHELE CARAGLIA (Napoli)   
Long non coding RNAs/miRNA loop in the control of tumour development: new diagnostic and therapeutic tools

**9:50-10:10** Alessandro Bregalda (Urbino)  
Myelin basic protein recovery during PKU mice development and the potential role of microRNAs on its regulation

**10:10-10:25** Federica Melisi (Napoli)  
Regulatory role of miR-449a as a potential biomarker in head and neck carcinoma

**10:25-10:45** Miriam Lucariello (Napoli)  
Pharmacological targeting of CtBP1/BARSs protein in cancer and in viral infection

**COFFEE BREAK**

Chair: T.B.D.

**11:15-11:30** Martina Bevilacqua (Padova)  
Extending the repertoire of tandem repeat structures

**11:30-11:50** Pamela De Falco (Roma)  
Role of NAT8L in the metabolic rewiring of Hepatocellular carcinoma

**11:50-12:10** Carlo Caputo (Napoli)  
A pilot study of miRNA expression profile in surgically resected pancreatic ductal adenocarcinoma: initial report from a bi-institutional cohort

**12:10-12:30** Valentina Daponte (Pavia)  
Bone cell differentiation during caudal fin regeneration is differentially affected in two zebrafish models of dominant and recessive Osteogenesis imperfecta

**13:00 LUNCH**

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Chair: T.B.D.

**14:30-15:20** Prof. GIANNA FERRETTI (Ancona)  
 Nutrition, health and environmental sustainability

**15:20-15:35** Daniel Di Risola (Roma)  
ERp57 chaperon protein protects neuronal cells from Aβ-induced toxicity

**15:35-15:55** Valentina Mondani (Pavia)  
Filling the gap for transthyretin amyloidosis: biochemical and structural studies of in vitro and in vivo assembled amyloid fibrils

**15:55-16:10** Carolina Paula Miguel (Pavia)  
Bone marrow modeling for platelet production

**COFFEE BREAK**

Chair: T.B.D.

**16:40-16:55** Elena Palmieri (Trieste)  
Investigation of alternative technologies for the development of polysaccharide-based vaccines

**16:55-17:15** Emma Veronica Carsana (Milano)  
SARS-CoV-2 affects dopamine homeostasis in dopaminergic neurons

**17:15-17:30** Roberta Piacentini (Roma)  
Lactoferrin inhibition of the complex formation between ACE2 receptor and SARS CoV-2 recognition binding domain

**19:30 DINNER**

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**WEDNESDAY, JUNE 8th, 2022**

Chair: T.B.D.

**9:00-9:50** Prof. GIOVANNI LI VOLTI (Catania)  
Heme oxygenase and its metabolites: new biological implications

**9:50-10:10** Elisa Di Fabio (Roma)  
Biocatalytic applications of *Lathyrus cicera* amine oxidase

**10:10-10:25** Martina Roberta Nastasi (Roma)  
Cytochrome *bd*-II oxidase from *Escherichia coli* shows an additional hydrogen peroxide scavenging activity

**10:25-10:40** Maria Laura Matrella (Bari)  
Biochemical and molecular characterization of differentiated SH-SY5Y cells as an “in vitro” model in neuroscience research

**COFFEE BREAK**

Chair: T.B.D.

**11:10-11:30** Lorenzo Ceccarelli (Siena)  
Human microglia derived Extracellular Vesicles: different donor cells for different content and biological function

**11:30-11:45** Silvia Breviario (Milano)  
Evaluation of the role of acid sphingomyelinase inhibition in GBA-dependent Parkinson’s disease

**11:45-12:00** Rosamaria Militello (Firenze)  
Sex-related adaptations to chronic in-season training

**12:00-12:15** Chiara Pacelli (Roma)  
*In silico* design and evaluation of exon skipping-inducing antisense oligonucleotides for therapeutic intervention in rare cancers

**12:15-12:35** Ignazio Restivo (Palermo)  
Cigarette smoke extract-induced eryptosis is modulated by p38 MAPK-ceramide axis and inhibited by indicaxanthin

**13:00 LUNCH**

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Chair: T.B.D.

**14:30-14:45** Filippo Molinari (Varese)  
Whole cell biocatalyst for the sustainable production of vanillin and *cis*,*cis*-muconic acid

**14:45-15:00** Lucia Piazza (Pisa)  
Aldose reductase differential inhibitors from natural sources

**15:00-15:15** Monica Cozzi (Parma)  
Evaluation of disruptors of the protein-protein interaction between human hemoglobin and *S. aureus* hemophore IsdB by elisa assay and STD-NMR

**15:15-15:30** Roberta Seccia (Bari)  
Effect of citrate on the Ggc1p transport

**15:30-15:50** Massimo Genovese (Firenze)  
Looking for new PTP1b and LMW-PTP inhibitors as tools for human chronic diseases treatment: nature is still our best teacher

**15:50-16:05** Dorina Dobi (Milano)  
CFTR modulators and ganglioside GM1: possible therapeutic approach in cystic fibrosis

**COFFEE BREAK**

Chair: T.B.D.

**16:40-17:30** Prof. Andrea Segré (Bologna)  
Book presentation

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**19:30 DINNER**

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**21:00-23:00** Serata caminetto:  
**Enviromental impact of population nutrition: a challange for the future**

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**THURSDAY, JUNE 9th, 2022**

Chair: T.B.D.

**9:00-9:50** Prof. FRANCESCO MALATESTA (Roma) Structure and function of cytochrome *c* oxidase, a mysterious enzyme

**9:50-10:10** Luca Galgano (Pavia)  
Role of the proline-rich tyrosine kinase Pyk2 in platelet activation in a murine model of endotoxemia

**10:10-10:25** Gabriele Coluccino (Udine)  
Structural role of the N-terminal tail of mitochondrial cyclophilin D: an NMR characterization

**10:25-10:45** Chiara Gramegna Tota (Pavia)  
Impairment of calcium-activated nucleotidase 1 affects proteoglycan synthesis and cell homeostasis

**10:45** **CLOSING REMARKS**

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