

## PROGRAM GIBB 2019 – Vieste, June 13-15

<b>Thursday 13<sup>th</sup></b>	
13.00-15.00	<b>Registration</b>
15.00-15.30	<b>Welcome Address</b> (Authorities, GIBB President and Organizing Committee)
	<b>Opening Plenary Lecture</b> Chair: Alessandro Giuffrè (CNR, Rome)
15.30-16.15	Barbara Schoepp-Cothenet (BIP Laboratory, UM7281 AMU/CNRS, Marseille, France) <i>Using phylogenetics in studying bioenergetic metalloenzymes: the case of enzymes working in arsenic metabolism</i>
	<b>Session I. Respiratory Chain Complexes, ATP Synthase, Redox Biology</b> Chairs: Alessandro Giuffrè (CNR, Rome), Francesco Francia (University of Bologna)
16.15-16.30	Chiara Galber (University of Padova) <i>Role of F-ATP synthase f subunit in dimer formation and PTP modulation</i>
16.30-16.45	Carolina Hierro-Yap (University of South Bohemia) <i>The mitochondrion of Trypanosoma brucei's infectious stage: how minimalism can broaden your limits</i>
16.45-17.00	Leonid A. Ivontsin (Institute of Cytochemistry and Molecular Pharmacology, Moscow) <i>Proton transport through the inlet half-channel of FOF1-ATP synthase: new insights and perspective</i>
17.00-17.15	Luigi Leonardo Palese (University of Bari) <i>What about the structures of the cytochrome c oxidase tell us about the mechanism</i>
17.15-17.30	Piero Leone (University of Bari) <i>FAD forming and destroying via human FAD synthase: a puzzle of modulated and modulating activities</i>
17.30-17.45	Francesco Bellanti (University of Foggia) <i>Defective transdifferentiation of senescent hepatic progenitor-like cells is associated with impairment of mitochondrial bioenergetics</i>
18.00-19.00	<b>Welcome cocktail</b>
20.00-22.00	<b>Guided tour to Vieste</b>
<b>Friday 14<sup>th</sup></b>	
	<b>Opening Plenary Lecture</b> Chair: Nazzareno Capitano (University of Foggia)
08.45-09.30	Yaarit Adamovich (University of Tel Aviv) <i>Using The Interplay Between Oxygen and Circadian Clocks</i>
	<b>Session II. Bioenergetics Metabolism and Mitochondrial (Dys)Function I</b> Chairs: Paolo Bernardi (University of Padova), Annamaria Tonazzi (CNR, Bari)
09.30-09.45	Giuseppe Cannino (University of Padova) <i>TRAP1 regulation in cancer metabolism: identification of new interactors</i>
09.45-10.00	Consiglia Pacelli (University of Foggia) <i>Parkin mutation affects the clock genes-dependent energy metabolism</i>
10.00-10.15	Francesca Liuzzi (University of Bologna) <i>IF<sub>1</sub> promotes cancer cells survival under anoxic conditions</i>

- 10.15-10.30 Claudio Laquatra (University of Padova)  
*Zebrafish (*Danio rerio*) as a model to study the pathophysiological role of the mitochondrial chaperone TRAP1*
- 10.30-10.45 Pauline Dao (Medical University of Vienna)  
*Dissecting mitochondrial functions in brain, behavior and timing with the human disease gene LETM1*
- 11.00-13.45 Tour on Boat to the Sea-Caves and Swim in the Sea**
- 14.00-15.00 Lunch
- Session II. Bioenergetics Metabolism and Mitochondrial (Dys)Function I (continued)**
- 15.00-15.15 Karim Zuhra (CNR Institute of Molecular Biology and Pathology, Rome)  
*N-acetylcysteine serves as substrate of 3-mercaptopyruvate sulfurtransferase and boosts sulfide metabolism in colon cancer cells*
- 15.15-15.30 Francesca Agriesti  
*Nandrolone induces a stem cell-like phenotype inhibiting mitochondrial respiratory activity*
- 15.30-15.45 Francesco Tucci (University of Foggia)  
*Cell metabolism profile of different embryonic stem cells*
- Session III. Transporters and Pores: Structure and Physio-Pathology I**
- Chairs: Giovanna Lippe (Università di Udine), Vito de Pinto (Università di Catania)
- 15.45-16.00 Lara Console (University of Calabria)  
*Role of Tryptophan 224 in the transport mechanism of the mitochondrial carnitine/acylcarnitine carrier*
- 16.00-16.15 Ruggero Gorgoglione (University of Bari)  
*Molecular identification and functional characterization of a novel glutamate transporter in yeast and plant mitochondria*
- 16.15-16.45 Coffee break
- 16.45-17.00 Veronica Fiorito (University of Torino)  
*Metabolic adaptation in colorectal cancer: heme export is required for the down-modulation the tricarboxylic acid cycle*
- 17.00-17.15 Emma Aloe (University of Calabria)  
*Effect of cholesterol on the human ASCT2 amino acid transporter*
- 17.15-17.30 Marco Schiavone (University of Padova)  
*A mitochondrial therapy for Duchenne muscular dystrophy*
- 17.30-17.45 Anna Stocco (University of Padova)  
*Cyclophilins in Duchenne muscular dystrophy*
- 17.45-18.00 Andrea Urbani (University of Padova)  
*Ca<sup>2+</sup>-dependent high-conductance channel activity of F-ATP synthase matches the permeability transition pore*
- 18.00 **GIBB member annual meeting**
- 20.30 **Social dinner**

**Saturday 15<sup>th</sup>**

**Session III. Bioenergetics Metabolism and Mitochondrial (Dys)Function II**

Chairs: Luigi Palmieri (University of Bari), Elena Forte (University of Roma, La Sapienza)

- 09.00-09.15 Silvia Russo (University of Bari)  
*Mitochondrial signature in human ovarian cancer tissue: involvement of cAMP pathway, SIRT3, OPA1 and PHB2 proteins*
- 09.15-09.30 Vidyasagar Naik Bukke (University of Foggia)  
*Effect of obethicholic acid on liver mitochondria in a model of secondary biliary cirrhosis*
- 09.30-09.45 Federica Taurino (University of Bari)  
*Proteomic-driven analysis reveals a dysregulation of a key mitochondrial protein in Short-Term Type-1 Diabetes Mellitus*
- 09.45-10.00 Arcangela Iuso (Institute of Human Genetics, Helmholtz Zentrum Munich, Germany)  
*Development of treatment strategy for MPAN, a sub-type of Neurodegeneration with Brain Iron Accumulation (NBIA)*
- 10.00-10.15 Anna Ferretta (University of Bari)  
*Increased levels of cAMP by the calcium-dependent activation of soluble adenylyl cyclase in parkin-mutant fibroblasts*
- 10.15-10.30 Elisabetta Wyart (University of Torino)  
*Iron availability regulates cancer related skeletal muscle wasting*
- 10.30-11.00 Coffee Break

**Session IV. Transporters and Pores: Structure and Physio-Pathology II**

Chairs: Cesare Indiveri (University of Calabria), Marco Zancani (University of Udine)

- 11.00-11.15 Technical presentation  
Enrico Tatti (Biolog, Hayward Inc. California, USA)  
*Biolog Mitoplasts™: a novel tool to assess mitochondrial functions in eukaryotic cells*
- 11.15-11.30 Mariafrancesca Scalise (University of Calabria)  
*The human SLC38A9 transceptor: insights into the transport side and structure/function relationship*
- 11.30-11.45 Andrea Carrer (University of Padova)  
*Electrophysiological characterization of channel formed by F-ATP synthases*
- 11.45-12.00 Rosaria Saletti (University of Catania)  
*Oxidation state of methionine and cysteine residues in human mitochondrial Voltage-Dependent Anion Selective Channel isoforms (hVDAC) investigated by high resolution mass spectrometry*
- 12.00-12.15 Maria Tolomeo (University of Bari)  
*Function and dysfunction of human riboflavin transporters*
- 12.15-12.45 **Concluding remarks and awards**
- 13.00 Lunch / lunch box
- 14.00 End of the meeting