

61° SIB MEETING Virtual Edition

23-24 September 2021

Scientific Program

Thursday September 23rd

12:00	Congress Opening	
12:15 -13:00	Eraldo Antonini Lecture Michele Vendruscolo <i>University of Cambridge, United Kingdom</i> Kinetics-Based Drug Discovery for Protein Misfolding Diseases	<i>Chairperson: Maurizio Brunori, Sapienza University of Rome</i>
14.00 - 14.40	Keynote Lecture Graça Soveral <i>School of Pharmacy University of Lisbon, Lisbon, Portugal</i> <i>President Portuguese Biochemical Society</i> Aquaporins as druggable targets: promoting health by addressing the disease	<i>Chairperson: Mauro Magnani, University of Urbino</i>
14:40	Parallel session 1 Metabolic rewiring in physiopathology	<i>Chairpersons: Valeria Scalcon (Padua), Francesca Cutruzzolà (Rome)</i>
14.40 – 15.05	Maria Luisa Balestrieri, <i>Campania University Luigi Vanvitelli, Naples</i> Epigenetics and aging: insight on sirtuins and metabolic health	
15.05 – 15.30	Maria Rosa Ciriolo, <i>University of Rome Tor Vergata</i> Metabolic rewiring of cancer cells by interfering with fatty acid metabolism: not always the same side of the coin	
15.30 – 15.55	Andrea Morandi, <i>University of Florence</i> Lipid metabolic reprogramming sustains endocrine therapy resistance in breast cancer	
14:40	Parallel session 2 Regulatory elements in signalling and networks	<i>Chairpersons: Paola Coccetti (Milan), Pierluigi Martelli (Bologna)</i>
14.40 – 15.05	Matteo Barberis, <i>University of Surrey, United Kingdoms</i> A novel and robust molecular switch actuating the quantitative model of CDK control for budding yeast.	
15.05 – 15.30	Sivia Sacchi, <i>University of Insubria, Varese</i> The D-side of neurotransmission: regulation of D-serine-mediated signaling	
15.30 – 15.55	Andrea Magri', <i>University of Catania</i> VDAC1 Deficiency switches the cell bioenergetics triggering the Warburg Effect.	
16.00 – 17.00	Poster Prizes (Five presentations, 10 min each) <i>Chairpersons: Francesco Bonomi (Milan), Paola Chiarugi (Florence)</i>	
17.00 -17.40	Keynote Lecture Jens Nielsen <i>Department of Biology and Biological Engineering, Chalmers University of Technology, Gothenburg, Sweden</i> Systems Biology of Yeast Metabolism	<i>Chairperson: Marco Vanoni, University Milan Bicocca</i>
17:40	Parallel session 3 Targeting metabolism in human diseases	<i>Chairpersons: Marco Fiorillo (Salford), Antonella Forlino (Pavia)</i>
17.40 – 18.05	Chiara Riganti, <i>University of Turin</i> Gender medicine in oncology: a matter of metabolism	

18.05 – 18.30 Margherita Ruoppolo, <i>University of Naples Federico II</i> The OMIC landscape of organic acidemias
18.30 – 18.55 Alessio Paone, <i>Sapienza University of Rome</i> Riboregulation of human serine hydroxymethyltransferase enzyme activity reveals a novel strategy to shape cell metabolism
17:40 Parallel session 4 Crosstalk at intra and intercellular levels <i>Chairpersons: Ottavia Spiga (Siena) Maria Tolomeo (Bari)</i>
17.40 – 18.05 Gennaro Agrimi, <i>University of Bari Aldo Moro</i> Identification of the mitochondrial NAD ⁺ transporter of animal mitochondria
18.05 – 18.30 Laura Marchetti, <i>University of Pisa</i> The neurotrophin signalling network: from intracellular dynamics to therapeutic targeting
18.30 – 18.55 Daniele Dell'Orco, <i>University of Verona</i> Optimizing a paradigmatic sensory transduction pathway by synergistic protein-protein and protein-membrane interaction

Friday September 24th

9:00 Round tables and selected posters (parallel sessions)
1) Metabolic rewiring in physiopathology Chairpersons <i>Nico Mitro (Milan), Salvatore Nesci (Bologna), Serena Rinaldo (Rome)</i>
2) Regulatory elements in signalling and networks Chairpersons <i>Luigi Bagella (Sassari), Lucia Stefanini (Rome), Ivano Eberini (Milan)</i>
3) Targeting metabolism in human diseases Chairpersons <i>Daniele Condorelli (Catania) Angela Rizzo (Milan), Gennaro Sanità (Naples)</i>
4) Crosstalk at intra and intercellular levels Chairpersons <i>Massimo Aureli (Milan), Eugenio Barone (Rome), Maria Francesca Scalise (Cosenza)</i>
5) Structural and molecular bases of pathologies Chairpersons <i>Alessandro Aliverti (Milan), Barbara Cellini (Perugia), Angelo Toto (Rome)</i>
6) Agro-food by-products and waste for sustainable innovative applications Chairpersons <i>Cristina Angeloni (Camerino), Carla Gentile (Palermo), Mohamed Sabbah (Nablus)</i>
13:30 – 14.10 Keynote Lecture <i>Chairperson: Beatrice Cobucci Ponzano, CNR, Naples</i> Michael O'Donohue <i>Toulouse Biotechnology Institute, Toulouse, France</i> IBISBA : integrating European capacity in industrial biotechnology
14:10 Parallel session 5 Structural and molecular bases of pathologies <i>Chairpersons: Roberta Fusco (Messina) Menico Rizzi (Novara)</i>
14.10 – 14.35 Stefano Ricagno, <i>University of Milan</i> Structural bases of light chain amyloidosis: the role of the native and the fibrillar states.
14.35 – 15.00 Francesco Marchesani, <i>University of Parma</i> Understanding neurological diseases at the molecular level: biochemical characterization of enzymes involved in L-serine biosynthesis and their pathogenic variant
15.00 – 15.25 Annarita Miccio, <i>University of Paris (France)</i> Genome editing approaches for β -hemoglobinopathies

14:10 Parallel session 6	
Agro-food by-products and waste for sustainable innovative applications	
Chairpersons: <i>M. Cristina Barbalace (Bologna) Stefania Iametti (Milan)</i>	
14.10 – 14.35	Tiziana Bacchetti, Polytechnic University of Marche, Ancona Valorization of <i>Crocus sativus</i> by-products
14.35 – 15.00	Angela Arciello, University of Naples Federico II Antimicrobial edible packaging obtained by chitosan, a food waste-derived biopolymer, grafted with an apolipoprotein B-derived host defense peptide
15.00 – 15.25	Roberta Iacono, University of Naples Federico II Discovery of novel thermophilic hemicellulases as promising tools for second generation biorefineries.
15.30 Poster Prizes (Five presentations, 10 min each) Chairpersons Paola Bruni (Florence) Luigi Palmieri (Bari)	
16:30 Round table: Education and mentoring in biochemistry and molecular biology	
Chairpersons: <i>Ferhan Sagin, Chair FEBS Education Committee (Izmir), Francesco Malatesta (Rome), Claudia Martini (Pisa), Giulia Faravelli (Pavia)</i>	
16.35 – 16.50	Miguel de la Rosa Universidad de Sevilla-CSIC, Sevilla, Spain Online teaching and Aristotle's Pillars of Rhetoric
16.50 – 17.05	Allegra Via IBPM, CNR, Rome Next generation learning (and teaching): are we ready for the challenge?
17.05 – 17.20	Paola Branduardi University of Milan Bicocca Experiences in post-graduate teaching in bio- economy
17.20 – 17.40	Discussion
17.40 – 17.55	Robert Harris Karolinska Institutet, Stockholm, Sweden PhD and Postgraduate Teaching
17.55 – 18.10	Danilo Porro University of Milan Bicocca Science Education in Horizon Europe, Pillar II
18.10 – 18.25	Riccardo Miggiano University of Piemonte Orientale, Novara The technology transfer in the academic context as an opportunity for projects seeding and flexible thinking.
18.25 – 18.45	Discussion
18.45 Congress Closure	