CONFERENCE PROGRAM

The conference schedule is set to Central European Time

6th December 2023

8:50 Online Platform Opening

9:00 Welcome address by Zeineb Aturki (Acting Director of ISB-CNR)

Opening by Massimo Trotta (President-Elect of the European Society of Photobiology)

Session: Photosynthetic Factories

SESSION CHAIRS: Kyle Lauersen, Giorgio Perin, Maya D. Lambreva

9:15 Keynote: Peter Ralph ***(University of Technology, Sydney, Australia)***
Elite strain development using phenomics

10:00 Pia Lindberg ***(Uppsala University, Sweden)***
Metabolic engineering of cyanobacteria for sustainable production of chemicals and fuels

10:25 Sarah d'Adamo ***(Wageningen University, The Netherlands)***
Prospects for lipid production and engineering in microalgae

10:50 Olaf Kruse ***(Bielefeld University, Germany)***
Bioengineering microalgae for their application as green cell factories

11:15 Break 20 min

11:35 Alessandro Alboresi (*University of Padova, Italia)*
Flavodiiron proteins, a molecular valve for the regulation and the engineering of photosynthetic electron transport

12:00 Patrik Jones ***(Imperial College London, UK)***
Native phosphite metabolism in nitrogen-fixing cyanobacteria and its use to manage contamination

12:25 Yonghua Li-Beisson ***(Biosc. Biotechnology Institute Aix Marseille, CEA, France)***
Exploring algal lipid metabolism for a sustainable bioeconomy

12:50 Luisa Gouveia ***(National Laboratory of Energy and Geology, Portugal)***
Photosynthetic microalgae for sustainable wastewater treatment and agriculture

13:15 Closing remarks

7th December 2023

8:50 Online Platform Opening

Session: Structure, Function & Dynamics of Photosynthetic Components

SESSION CHAIRS: Giorgio Perin, Alessandro Alboresi, Gert Schansker

9:00 Keynote: Roberta Croce ***(Vrije Universiteit Amsterdam, The Netherlands)***
Chlamydomonas in the light: one alga, multiple responses

9:45 Petar H Lambrev ***(Institute of Plant Biology, BRC, Hungary)***
Revealing ultrafast molecular mechanisms by two-dimensional electronic spectroscopy

10:10 Anjali Pandit ***(Leiden Institute of Chemistry, The Netherlands)***
Tuning into photosynthesis with NMR: dynamic structures and processes in thylakoid membranes and whole cells

10:35 Angela Falciatore ***(Institute of Physicochemical Biology, CNRS, France)***
Diatom model species to address the functional diversity of photosynthesis

11:00 Break 25 min

11:25 Gert Schansker (*Heinz Walz GmbH, Germany*)
Photosynthetic Control, a probe for the balance between the activities of photosynthetic electron transport and Calvin Benson cycle in plants

11:50 Esa Tyystjärvi ***(University of Turku, Finland)***
Temperature dependence reveals how singlet oxygen is formed and allows calculation of contributions of photoinhibition mechanisms

12:15 Ladislav Nedbal ***(Palacký University Olomouc, Czech Republic)***
Mathematical model to understand photosynthetic responses to light oscillating on different time scales

12:40 Alberto Mezzetti ***(Sorbone University, France)***
Light-adapted state in photosynthetic reaction centres studied by time-resolved FTIR difference spectroscopy

13:05 Closing remarks