Scientific Program

The main topics of the Symposium cover the following areas:

- Product Registration and EU Regulation
- Molecular Tools
- Plant Biostimulants
- Bio-pesticides
- Animal Feeding
- Large-scale Photobioreactors

SUNDAY, June 25th

16:00-20:00 Registration and Poster Mounting (at the Venue of the Symposium, Lucsony Str. 2., H-9200 Mosonmagyaróvar)

19:00 Welcome – Dinner (at the Venue of the Symposium)

MONDAY, June 26th

8:00-10:00 Registration and Poster Mounting

Opening, General Introduction

10:00-10:10 Ördög V. (Mosonmagyaróvár): Greeting of Participants and Opening the 8th Symposium on Microalgae and Seaweed Products

10:10-10:40 Molina, E. (Spain): Sustainable Algae Biorefinery for Agriculture and Aquaculture: SABANA project

10:40-11:10 Tőkés G. (Budapest): EU-regulations of biostimulants and biocides, including algae-based products

11:10-11:20 Coffee Break

Session 1: Molecular Tools for Microalgae Biotechnology

Chairperson: Strnad, M. (Czech Republic)

Co-Chair: Balázs E. (Martonvásár)
**Plenary Lectures**

11:20-11:50 *Balázs E.* (Martonvásár): The draft genome of a high lipid content *Scenedesmus* sp strain (MACC-401) green alga

11:50-12:20 *Maróti G.* (Szeged): Metagenomics approaches in the investigation of various microalgal communities

12:20-13:00 **Buffet Lunch** (snacks, sandwiches, refreshments)

**Oral Presentations**

13:00-13:15 *Doczi R.* (Martonvásár): Exploring environmental signal transduction in the model unicellular microalga, *Chlamydomonas reinhardtii*

13:15-13:30 *Lakatos G.* (Szeged): Hydrogen production in algal-bacterial co-cultures

13:30-13:45 *Makra N.* (Martonvásár): Molecular characterization of *Nostoc* and *Anabaena* microalgae isolates

**Session 2: Microalgae Plant hormones and Plant Biostimulants**

Chairperson: *Van Staden, J.* (South Africa)

Co-Chair: *Dudits D.* (Szeged)

**Plenary Lectures**

13:45-14:15 *Dudits D.* (Szeged): Physiological and developmental parameters of biomass stimulation by seaweed extract (Kelpak) in energy willow

14:15-14:45 *Van Staden, J.* (South Africa): Quantification of plant growth promoting biomolecules phloroglucinol and eckol in commercial seaweed extracts

14:45-15:00 **Coffee Break**

**Oral Presentations**

15:00-15:15 *Frebortova, J.* (Czech Republic): Cytokinin metabolism and sensing in
cyanobacterium *Nostoc* PCC 7120

15:15-15:30 Novak, O. (Czech Republic): Plant hormonomics: multiple phytohormone profiling by targeted metabolomics

15:30-15:45 Molnár Z. (Mosonmagyaróvár): Bioassays for evaluation of auxin- and cytokinin-like activity in microalgae

15:45-16:00 Pozo, J. (Spain): Microalgae-based biostimulant. Application in intensive agriculture

16:00-16:15 Kajan, M. (Czech Republic): Utilisation of algal suspension cultivated on pretreated municipal wastewater as organic fertilizer

16:15-16:30 Tóth J. (Austria): *Nostoc entophytum*, *Tetracystis sp.* and *Arthrospira platensis* are promising plant biostimulants

16:30-17:00 **Round Table Discussion**

18:30-19:00 **Folklore Show** (at the Venue of the Symposium)

19:00-(22:00) **Dinner** (at the Venue of the Symposium)

Sorry to inform that alcoholic beverages will not be served free of charge

*Tuesday, June 27th*

8:00-9:00 **Poster Session**

**Session 3: Bio-pesticides and detection of bio-active molecules**

Chairperson: Acien, G. (Spain)

Co-Chair: Ördög V. (Mosonmagyaróvár)

**Plenary Lectures**

9:00-9:30 Suarez, F. (Spain): Strategies for the search of new microbial biopesticides from natural environments

9.30-10:00 Strnad, M. (Czech Republic): Discovery on new biologically active compound in algae by bioassay-
guided fractionation

**Oral Presentations**

10:00-10:15 *Gruz, J.* (Czech Republic): The role of LC-MS in the discovery of bioactive compounds

10:15-10:30 *Ördög V.* (Mosonmagyaróvár): Effective microalgae against fungal plant pathogens

10:30-10:40 **Coffee Break**

**Session 4: Animal Feeding – Microalgae as Feed Additives**

Chairperson: *Masojidek, J.* (Czech Republic)

**Plenary Lectures**

10:40-11:10 *Alarcon, J.* (Spain): Microalgae in aquafeeds: nutritional value and potential use

11:10-11:40 *Fu, P.* (China): Microalgae as additives of animal feedstocks for enhanced accumulation of polyunsaturated fatty acids

**Session 5: Microalgae Cultivation in Wastewater, Large-scale Photobioreactors**

Chairperson: *Borowitzka, M.* (Australia)

Co-Chair: *Molina, E.* (Spain)

**Plenary Lectures**

11:40-12:10 *Borowitzka, M.* (Australia): Using algae to treat piggery waste

12:10-13:00 **Buffet Lunch** (snacks, sandwiches, refreshments)

13:00-13:30 *Acien, G.* (Spain): Major challenges in the production of microalgae at large scale

13:30-14:00 *Masojidek, J.* (Czech Republic): Growth monitoring in microalgae mass cultures: chlorophyll
Oral Presentations

14:00-14:15 Torzillo, G. (Italy): Growth physiology of *Chlamydomonium fusiforme* grown in BG-11 and Bristol media

14:15-14:30 **Coffee Break**

14:30-14:45 Rathinam, R. (Portugal): Microalgae and their commercial cultivation

14:45-15:00 Malec, P. (Poland): Effect of ammonium on photosynthetic pigment accumulation and photosynthetic activity in microalgal strains selected for treatment of ammonium-rich wastewater

15:00-15:15 Cerveny, J. (Czech Republic): Microalgal adaptive biotechnologies for sustainable future

15:15-15:30 Ördög V. (Mosonmagyaróvár), Molina, M. (Spain): Closing of the 8th Symposium on Microalgae and Seaweed Products