Plants under environmental stress:

overcoming current climate challenges

Universidad Internacional de Andalucía

5th-7th November 2024

ABOUT THE WORKSHOP

Agriculture, the basis of human nutrition, is both a net producer of greenhouse effect gases that contribute to global warming and a victim, because climate changes triggered by global warming have severe negative effects on crop productivity and soil quality. Since photosynthesis provides a natural mechanism of CO_2 fixation, ecosystem-based strategies using photosynthetic organisms is emerging as a relevant strategy to tackle the climate crisis.

The aim of this workshop is to bring together leading national and international scientists to discuss the possible contributions of photosynthetic organisms to address the unprecedented challenges that humanity is currently facing due to the climate crisis provoked by global warming. To address these goals, the workshop is structured into three topics:

1) Optimizing photosynthetic metabolism and chloroplast signaling
2) Plant responses to changing environments
3) Breakthroughs on plant and algal biotechnology

Recent scientific advances in photosynthesis and the physiological mechanisms of plant acclimation to environmental stresses, in addition with the excellent molecular and genetic tools already available for plant and algae research, provide new and exciting opportunities for translating basic knowledge to the generation of crops with improved productivity under the adverse environmental conditions triggered by global warming. Therefore, the topics that will be presented and discussed in the workshop are of the highest scientific interest and, since the climate crisis is increasingly perceived as a major threat for humans, the goals of the workshop are also of the highest social interest.

FORMAT OF THE WORKSHOP

The workshop will bring together 15 speakers and a maximum of 35 participants. The scientific programme will start on Tuesday 5th November in the morning and will end on Thursday 7th November in the morning. Ample time for informal discussion will be reserved. Participants will be invited to present a poster. Some abstracts will be selected for a short presentation.

VENUE OF THE WORKSHOP

The workshop will be held in Baeza, at the "Antonio Machado Headquarters", a XVII century building turned into a Conference Centre of the International University of Andalusia (UNIA). A complex made up of two historic buildings: the Jabalquinto Palace (XV/XVI centuries) and the old Seminary (XVII century) located in the heart of the historic complex, among the old University, church of Santa Cruz, the cathedral and the Upper Town Halls.

This site includes a recently restored residence, where speakers and participants will be accommodated. This same space is where the meetings will be held, which facilitates social interaction and informal discussions.

Baeza is a world historic heritage town, renowned for its Renaissance and Gothic buildings.

More info

www.unia.es

workshops.enviroment@unia.es

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SPEAKERS

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DEADLINE

For application
5th September, 2024

VENUE

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