



Photosynthesis under Biotic and Abiotic Environmental Stress

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Deadline for
manuscript submissions:

30 April 2021

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mdpi.com/si/54077

Message from the Guest Editor

Photosynthesis is a unique process that has shaped life on our planet and created the conditions for all known life forms. During evolution, plant species and photosynthetic forms have been created and partial mechanisms have been optimized that can work optimally within a certain range of environmental conditions. Changing environmental conditions caused by climate change, environmental pollution, and biotic factors significantly limit growth, biomass production, and plant reproduction.

By better understanding of the reactions and partial processes of photosynthesis in a changing or stressful environment, we can predict how plants will function in different climate change scenarios, under conditions of exposure to abiotic and biotic stressors, as well as how to help plants improve their adaptability.

This Special Issue of Cells will therefore represent research into the effects of abiotic and biotic stresses that can have adverse effects on structures as well as photochemical and biochemical processes, from the molecular to the whole-plant level.

We welcome original research and review papers addressing all aspects of photosynthesis, including regulatory mechanisms, as well as their value in agriculture, forestry, and biotechnology.

We hope that interdisciplinary applications of knowledge will stimulate future research.

Special Issue