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Plant Synthetic Biology

Guest Editors:

Dr. Stéphane D. Lemaire

Institut de Biologie Physico-Chimique, Sorbonne Université, CNRS, 75005 Paris, France

Dr. Paul F. South

Biological Sciences, Louisiana State University, Baton Rouge, LA 70803, USA

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Message from the Guest Editors

Dear Colleauges,

The field of plant synthetic biology encompasses many different types of photosynthetic chassis such as cyanobacteria, green algae, diatoms, bryophytes or land plants. These chassis with complex genomes and biochemical plasticity have become popular as the ability to synthesize, insert, delete, and modify genetic material has improved. The design-build-test-learn cycle coupled to standardization enables an engineering approach to plant biology. Synthetic biology is a wonderful opportunity to tackle the most important and unprecedented agricultural, environmental, scientific, industrial, and economic challenges of our time. Plants have been used as a food and fiber source throughout human history, and with current technological advances, the ability to redesign plant structure, metabolism, and physiology has become a reality.

The objective of the present Special Issue of *Life* is to highlight original research and review articles dealing with all aspects of plant synthetic biology.









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Editor-in-Chief

Prof. Dr. Lluís Ribas de Pouplana

Institute for Research in Biomedicine (IRB Barcelona), The Barcelona Institute of Science and Technology, 08028 Barcelona, Spain

Message from the Editor-in-Chief

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