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Plant Synthetic Biology

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Message from the Guest Editors

Dear Colleagues,

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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Special Issue



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Message from the Editor-in-Chief

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