



## Molecular Mechanisms on the Synthesis, Metabolism, Transport, and Accumulation of Assimilates in Crops

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Deadline for manuscript submissions:

**closed (31 December 2020)**

### Message from the Guest Editors

Dear Colleagues,

In plants, the assimilation of carbon (C), nitrogen (N), sulfur (S), and phosphorus (P) is the primary process to provide resources for growth. Assimilates in crops, such as sugars, amino acids, and other N-, S-, and P-containing metabolites, provide resources for human diet, livestock feed, and industrial raw materials. Research on plant metabolisms could contribute to the breeding and cultivation of crop species, by aiming to the improvement of yield and quality. For seeking the target for genetic modification to improve the productivity and contents in a certain crop species, understanding molecular mechanisms on the absorption, assimilation, utilization, distribution, and accumulation of C/N/S/P in different organs, is necessary. In this context, for this Special Issue, we invite original and review articles on molecular physiology in field and horticultural crops, focusing on papers that seek to assimilate synthesis, metabolism, transport, and accumulation. We also welcome papers on the regulatory mechanisms underlying source-sink interactions, long-distance signaling, and/or environmental responses in metabolic pathways for assimilates.





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## Message from the Editor-in-Chief

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