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Effects of Carbohydrate Source on Sink Development in Fruiting Species

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Message from the Guest Editors

Dear Colleagues,

Research on resource allocation in plants uses the term “source” to describe organs that are net producers of photoassimilates through photosynthesis (i.e., leaves) and “sink” to describe organs that are net importers of photoassimilates for growth and storage. Leaves export up to 80% of the carbon they fix, maintaining a consistent supply of carbon to support sink metabolism and growth. Transport or flow represents the physical link between source and sinks, involving loading of sugars at the source, transport via the phloem and unloading into the sink. Current knowledge suggests that both sources and sinks are involved in limiting plant productivity. Therefore, in order to maximize yield, improvements of both source export and sink import are needed.

This Special Issue welcomes original research or review papers focused on the effects that source carbohydrate supply has on the sink development of fruiting species, including both model plants and cultivated crops.



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Special Issue



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Message from the Editor-in-Chief

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