

Special Issue

Plant Respiration

Message from the Guest Editor

Respiratory pathways (glycolysis, oxidative pentose-phosphate pathway, tricarboxylic-acid cycle, mitochondrial electron-transport chain, oxidative phosphorylation), along with the pathways of photosynthesis in the chloroplast, represent the core of plant carbon and energy metabolism. Since plants are sessile organisms, these pathways must function under a wide range of environmental and stress conditions in order to support growth effectively. This Special Issue invites both original research and review articles that advance our understanding of how plant respiration responds to the environment and how the unique components of respiratory metabolism support acclimation to the environment. Contributions that describe interactions between respiration and photosynthesis, or how respiration responds to global change factors, are also welcome. Keywords

- Plant respiratory pathways
- Acclimation to environment
- Anabolic respiration
- Photosynthesis–respiration interactions
- Global-change factors
- Plant carbon and energy metabolism
- Alternate metabolic routes
- Plant-specific respiratory components

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2020)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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*International Journal of
Molecular Sciences*
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