

# 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

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### Guest Editor

Prof. Dr. Greg C. Vanlerberghe

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### Deadline for manuscript submissions

closed (30 April 2020)



## International Journal of Molecular Sciences

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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