

## Special Issue

# Molecular Mechanisms Regulating Plant Development and Cell Function

### Message from the Guest Editor

Plants construct intrinsic arrangements and structures of cells and tissues that are essential for diverse biological functions, including adaptation to external environments, defense against pathogens, nutrient absorption, transport, gas exchange, and photosynthesis. The expression of cell functions often depends on developmental programs and spatial coordination among neighboring cells or the environment, resulting in the precise localization of functional molecules such as transporters and enzymes at the subcellular level. With this Special Issue, we aim to advance our understanding of the molecular underpinnings governing plant cell function, tissue organization, and developmental regulation. We welcome submissions of original research employing cell biology, molecular genetics, and/or omics approaches, providing novel insights into the molecular mechanisms supporting plant cell functions. We also welcome articles in the form of reviews and technical advances related to plant cell function and regulation.

### Guest Editor

Dr. Tarek Alshaal

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## International Journal of Molecular Sciences

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### Message from the Editor-in-Chief

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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