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The Signalling Function of Plant GTP-Binding Proteins

Guest Editor:

Prof. Dr. Attila Fehér

1. Department of Plant Biology, Faculty of Science and Informatics, University of Szeged, 52. Közép fasor, H-6726 Szeged, Hungary 2. Institute of Plant Biology, Biological Research Center, 62. Temesvári krt., H-6726 Szeged, Hungary

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Message from the Guest Editor

The ROP small GTP-binding proteins are central to various processes that determine plant shape and function. These small molecules are versatile switches that interact with the plethora of upstream regulators and downstream effectors. In this way they are capable of integrating hormonal, developmental, and abiotic/biotic stress signaling pathways. At the cellular level, they control the size, shape, and polarity of cells organizing primarily the cytoskeleton, vesicular transport, and gene expression. Despite the accumulating experimental data signifying the role of ROP GTPases and their interacting proteins in plant development and adaptation, our knowledge about the associated signaling pathways is still scarce. The number of ROP-mediated signaling pathways have been mapped from a specific receptor to a specific final target is rather low

With this Special Issue, we would like to encourage the publication of further details about the signaling function of ROPs. Manuscripts characterizing ROPs themselves as well as their regulators, effectors, and further upstream and downstream events linking these molecules to developmental, hormonal, and environmental responses are welcome.













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Prof. Dr. Dilantha FernandoDepartment of Plant Science, University of Manitoba, Winnipeg, MB R3T 2N2. Canada

Message from the Editor-in-Chief

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