

Special Issue

Advances in Auxin Research

Message from the Guest Editor

Phytohormones are endogenous molecules occurring naturally in plants at minute concentrations. They act as signalling compounds that promote and influence plant development and physiology. Auxin has been identified as a plant growth hormone for its ability to stimulate differential growth in response to gravity or light cues. It is involved in a wide variety of biological mechanisms. The effect of auxin on plant growth and development depends primarily on its amount and distribution in organs and tissues. This regulation is implemented on at least four functional levels: hormone biosynthesis; its metabolism, especially the formation and hydrolysis of conjugates; its active or passive transport; and the perception and processing of auxin signalling by nuclear protein receptors. Even though the history of auxin research reaches back more than a hundred years, we are still far from having a comprehensive understanding of how auxin governs a wide range of plant responses. Therefore, with this Special Issue we want to give you the opportunity to contribute research articles or reviews concerning any of the auxin-related aspects mentioned above.

Guest Editor

Dr. Helene Robert Boisivon

CEITEC—Central European Institute of Technology, Masaryk University,
Kamenice 5, Brno, 625 00, Brno, Czech Republic

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4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

Editor-in-Chief

Prof. Dr. Dilantha Fernando

Department of Plant Science, University of Manitoba, Winnipeg, MB
R3T 2N2, Canada

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