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***In Vivo* and *In Vitro* Production for Plant Secondary Metabolites: Recent Advances and Biological Applications**

Guest Editors:

Prof. Dr. Cinzia Forni

Department of Biology, University of Rome Tor Vergata, Via della Ricerca Scientifica, 00133 Rome, Italy

Dr. Loretta Bacchetta

Division of Biotechnologies and Agroindustry, ENEA-Italian National Agency for New Technologies, Energy and Sustainable Economic Development, 00196 Rome, Italy

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Message from the Guest Editors

The importance of food quality for human health is well understood. There are several challenges that the world population must face in the imminent future, including climate change, which hinders crop production. Plants synthesize several compounds, named secondary metabolites, which play important roles in the plant's life, e.g., in the reproduction and establishment of symbiosis, as well as in the response to abiotic and biotic stresses. Besides plants, these molecules also exert a wide range of effects in other living organisms, acting as antimicrobials, antioxidants, and antitumor compounds. The vast and versatile pharmacological effects of medicinal plants are basically dependent on their phytochemical constituents.

We are calling for articles in a new Special Issue of *Plants* entitled "*In Vivo* and *In Vitro* Production for Plant Secondary Metabolites: recent advances and biological applications". In this Special Issue, we aim to publish research articles and reviews on the different classes of secondary metabolites, as well as their role in plants and in the treatment of human diseases.



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Special issue



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Editor-in-Chief

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

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.

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Plants Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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