

Special Issue

Production of Secondary Metabolites In Vitro

Message from the Guest Editors

Secondary plant metabolites are not essential to plant growth, but are required for the plant to survive in its environment. They are produced in small amounts, usually have very complicated structures and often accumulate in specialized tissues. Secondary metabolites are used as especially chemicals such as drugs, flavours, fragrances, insecticides, and dyes and thus have a great economic value. Plants, such as medicinal/aromatic plants (MAPs) contain various secondary metabolites (e.g. alkaloids, flavonoids, glycosides, phenols, saponins), in their tissues, commercially valuable. An alternative to agricultural processes for producing secondary metabolites, is the *in vitro* culture, running in controlled environment, independently from climate and soil conditions. It is still in its infancy the knowledge of biosynthetic pathways of phytochemicals and desired phytochemicals in plants. This Special Issue of *Plants* will highlight the significance, function, complexity and potential applications of secondary metabolites that are produced *in vitro* and will suggest strategies to improve the *in vitro* production of secondary metabolites.

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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, and 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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