



Transport of Specialized Metabolites

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Message from the Guest Editor

Dear Colleagues,

Specialized metabolites, also called secondary metabolites, are involved in defense against herbivores and pathogens; communication between plants, insects, and microorganisms; defense against ultraviolet radiation, and others. Most of such specialized metabolites are either accumulated in specific organelles, or are released from cells to the phyllosphere, atmosphere, and rhizosphere in response to environmental changes and biotic and abiotic stresses. The accumulation or release of specialized metabolites is necessary to exhibit their physiological roles.

In recent years, many studies have reported not only the phenomenon of specialized metabolite transport but also the isolation and functional analysis of transporters, e.g., ABC transporter, MATE transporter, NPF, and PUP, and their physiological roles. More recently, the application of transporters, i.e., transport engineering, has enabled control of the production of specialized metabolites.

In this Special Issue, articles (original research papers, perspectives, opinions, reviews) are welcome that focus on transport or transporters of specialized metabolites.

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Guest Editor





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Message from the Editor-in-Chief

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