Special Issue

Advances in Carotenoid Metabolism

Message from the Guest Editor

Carotenoids are naturally occurring pigments synthesized in plants and microorganisms. In plants, carotenoids are synthesized and stored in plastids. They are mainly accumulated in the chromoplast of brightly colored fruits and vegetables. In chloroplasts, carotenoids play essential roles in photosynthesis and act as photoprotectors. As well as playing a central role in plants, these pigments can display anti-inflammatory and antioxidant properties and regulate different cellular biological functions, and some can serve as vitamin A precursors, i.e., provitamin A carotenoids in vertebrate organisms. Carotenoid cleavage products, i.e., apocarotenoids, serve as signal molecules in plants and animals. Thanks to major improvements and advancements in analytical experiments and bioinformatics, we can now fill in some of the knowledge gaps in carotenoid metabolism. The objective of this Special Issue is to focus on current advances in the field of carotenoid biology and cultivate interest in carotenoid metabolism in plants and mammalian organisms.

Guest Editor

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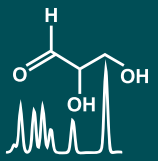

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Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

Editor-in-Chief

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