Special Issue

Folate Absorption and Metabolism

Message from the Guest Editor

Dietary folates are essential B-group vitamins working as donors and acceptors of one-carbon units during the synthesis of nucleic acid precursors, amino acids, and S-adenosylmethionine (SAM), the major intracellular methylating agent. Impairments in folate absorption and metabolism can lead to hyperhomocysteinemia, chromosome damage and malsegregation, point mutations, impaired cellular division, and epigenetic dysregulation. Indeed, several human diseases have been linked to inadequate folate intake from foods or are suspected to result from an impaired metabolism due to variants and polymorphisms of folate transporters and metabolic genes. At present, there is a need to shed light on studies addressing this area and to critically review and analyze the available literature. Additional studies addressing previous questions in a deeper manner and with increased statistical power are warranted. Furthermore, the ever-growing field relating impaired folate metabolism to epigenetic changes is timely and attractive, also as an attempt to counteract disease-related epigenetic changes with dietary interventions.

Guest Editor

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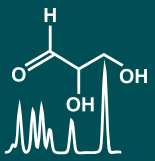
Deadline for manuscript submissions

closed (31 January 2020)



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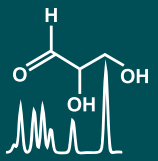

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Message from the Editor-in-Chief

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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