

Special Issue

One-Carbon Metabolism in Pregnant Women, Fetuses, and Infants

Message from the Guest Editors

The one-carbon metabolism (OCM) comprises a folate cycle, a choline metabolic pathway linked to a methionine cycle, and the homocysteine in the latter being connected to the trans-sulphuration pathway. The OCM is mainly involved in the transfer of the one-carbon units required for S-adenosylmethionine (SAM)-dependent methyl transfer reactions, nucleic acid synthesis, and amino acid metabolism, all of which support numerous physiological processes.

Therefore, for this Special Issue of *Metabolites*, we welcome submissions of original research articles and reviews covering (but not limited to) the following topics:

Studies related to the OCM (folate cycle, choline metabolic pathway, methionine cycle, and trans-sulphuration pathway) in pregnant women or early postnatal infants;

Alterations in OCM metabolites, metabolic fluxes, and networks during pregnancy;

Association between OCM status and disease;

Effects of diet or nutrients on OCM status;

Association between maternal OCM status and epigenetic modifications in offspring.

Guest Editors

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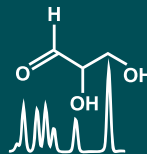
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Deadline for manuscript submissions

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About the Journal

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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