Special Issue

Metabolic Network Models Volume 2

Message from the Guest Editors

The last two decades of systems biology research have propelled the construction of large-scale models of metabolism in diverse organisms across all kingdoms of life. There is still the need to develop methods that can provide testable predictions. These methods should allow for augmenting the structural backbone of the metabolic models with additional information about: (*i*) the type of kinetic law governing the reaction rates, (*ii*) constraints concerning feasible parameter values for the respective kinetic, and (*iii*) thermodynamic feasibility of reactions. They should also be coupled with appropriate approaches for model selection based on steady-state and time-resolved data from multiple experimental scenarios. Therefore, this Special Issue of *Metabolites* will be dedicated to publishing current advances on medium- and large-scale metabolic network modeling that address these pressing challenges by providing case studies of hypotheses that can be tested by integration of data from modern metabolomics technologies.

Guest Editors

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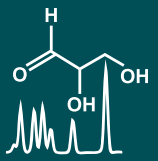

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About the Journal

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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