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Signal Processing and Machine Learning for Metabolomics

Guest Editors:

Dr. Santiago Marco

Dr. Jesús Brezmes

Dr. Alexandre Perera-LLuna

Deadline for manuscript submissions:
closed (15 December 2019)

Message from the Guest Editors

Dear Colleagues,

Metabolomics has witnessed astonishing advances in the last decade, based in new instrumental developments in mass spectrometry and magnetic nucelar resonance, with profound implications in life sciences. These instruments provide rich and complex signals, where the relevant information is hidden among an incredible amount of noise related to other sources of variance (lifestyle, diet, genomics variablity) different from the source of interest (related to health condition, therary or toxic exposure). The analysis of these signals is particularly challenging in untargeted metabolomics, aiming to make an exhaustive analysis of the complete metabolome available in a certain body fluid.

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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.

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