Special Issue

Metabolomics in Neurodegenerative Diseases

Message from the Guest Editors

Metabolomics in neurodegenerative diseases holds promise as a dynamic field elucidating molecular insights into conditions like Alzheimer's, Parkinson's, and many more. This promising discipline scrutinizes the intricate metabolic profiles of biological systems, aiding in the identification of biomarkers, unraveling disease mechanisms, and advancing diagnostic precision. By employing advanced analytical techniques, such as mass spectrometry and nuclear magnetic resonance spectroscopy, researchers scrutinize alterations in metabolite patterns associated with neurodegeneration. These alterations encompass disrupted energy metabolism, aberrant lipid processing, and amino acid imbalances, among many others, offering invaluable clues regarding the intricate pathophysiology of these diseases. However, challenges remain in standardization, data integration, and comprehending causative relationships. This special edition of Metabolites underscores the accelerating role of metabolomics in deepening our comprehension of neurodegenerative disorders, and fostering innovative diagnostic avenues and treatment strategies.

Guest Editors

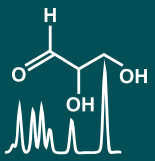
Dr. Stewart Francis Graham

Dr. Nazia M. Saiyed

Dr. Ali Yilmaz

Deadline for manuscript submissions

closed (5 December 2024)



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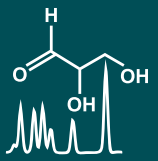

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About the Journal

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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