Special Issue

Bioactive Lipids in Neuroinflammatory Diseases

Message from the Guest Editors

Endogenous bioactive lipids such as arachidonic acid-derived autacoids, sphingolipids, specialized pro-resolving mediators, endocannabinoids, and fatty acyl esters of hydroxy fatty acids are the effectors of a convoluted signaling network that controls initiation, coordination, and resolution of the inflammatory event; as a matter of fact, these molecules act on all cellular and molecular events of host defense, control phenotype, differentiation, and recruiting and trafficking of all immune cells, as well as their ability to influence tissue homeostasis through soluble mediators. More importantly, the disruption of these lipid molecular networks, or their dysfunctional activity, is a primary event in the aberrant immune response that leads to neuroinflammatory damage of many—if not all—neurodegenerative diseases. This issue focuses on gathering the most recent molecular evidence on the involvement of endogenous bioactive lipids in neurodegenerative conditions, their role in kickstarting or preventing tissue damage, and their perspective either as possible therapeutic targets or diagnostic tools.

Guest Editors

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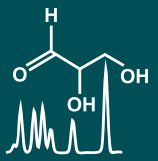

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Message from the Editor-in-Chief

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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