Special Issue

Lipids, Sphingolipids and Innate Immunity in Health and Disease

Message from the Guest Editors

Lipotoxicity in kidney diseases, cancer, diabetes, atherosclerosis, NAFLD, and some others, suggests that lipid dysmetabolism could play an important role in their progression. Growing evidence suggests that lipotoxicity-associated damage depends on the type and quantity of lipid species. A critical link between lipotoxicity and a form of systemic and chronic inflammation has been recently established in different disorders. Several inflammatory biomarkers, such as ICAM-1, VCAM-1, IL-6, TNF, CRP, fibrinogen, serum albumin, and white blood cell counts, have been reported to be prognostic to risk-stratify patients. In addition, increasing evidence supports the involvement of many immune components such as TLRs, CLRs, RLRs, NLRs, HIN-200 receptors, and cGAS-STING. We invite any research focused on the crosstalk between the immune system, lipids, and sphingolipids in health and disease, especially mechanistic studies using murine models or human specimens unraveling the importance of bioactive lipids as a possible therapeutic approach in the treatment of several diseases.

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Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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