Special Issue

Toxicity of Uremic Compounds: Recent Research & Development

Message from the Guest Editors

Research on uremic toxins has grown significantly over the past few decades. Uremic compounds are a group of molecules that accumulate in the bloodstream when the kidneys are unable to effectively remove them from the body. Uremia, a condition where the kidneys fail to filter waste products from the blood, can lead to the accumulation of various toxins in the body. These toxins have been linked to several adverse health outcomes, therefore, identifying and characterizing uremic toxins is crucial. Some important areas related to this topic are the role of gut microbiota in uremic toxicity, identifying new biomarkers for uremic toxicity, as well as the development of more effective dialysis treatments that can remove uremic compounds from the blood. Novel therapeutic approaches, such as the use of enzymes to break down toxic molecules, are also being explored. Researchers have used advanced techniques such as metabolomics and proteomics to study the structure, function, and effects of uremic toxins, providing a deeper understanding of their role in disease pathogenesis. With ongoing research, we hope more effective treatments and preventative measures can be developed.

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Toxinology is an incredibly diverse area of study, ranging from field surveys of environmental toxins to the study of toxin action at the molecular level. The editorial board and staff of *Toxins* are dedicated to providing a timely, peer-reviewed outlet for exciting, innovative primary research articles and concise, informative reviews from investigators in the myriad of disciplines contributing to our knowledge on toxins. We are committed to meeting the needs of the toxin research community by offering useful and timely reviews of all manuscripts submitted. Please consider *Toxins* when submitting your work for publication.

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