

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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Editor-in-Chief

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