

Special Issue

Treatment and Management of Uremic Toxins in Chronic Kidney Disease Patients

Message from the Guest Editors

Chronic kidney disease (CKD) is characterized by the progressive accumulation of uremic toxins, which play a central role in the development of systemic complications. In recent years, experimental nephrology, particularly studies using *in vitro* and *ex vivo* models, have elucidated how individual toxins and complex toxin mixtures affect endothelial dysfunction, inflammatory signaling, oxidative stress, and inter-organ communication. The translation of experimental findings into effective clinical strategies for uremic toxin management remains a major challenge. Consequently, increasing attention has been directed toward translational strategies that integrate experimental models with clinical innovation. These include the development of novel extracorporeal and adsorptive techniques, the modulation of toxin generation and transport pathways, targeting the gut–kidney axis, and preventive interventions initiated at early stages of CKD. This Special Issue will bring together experimental, translational, and clinical studies, as well as comprehensive review articles, that bridge mechanistic research and clinical practice in the management of uremic toxins.

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About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

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