Special Issue

Targeting Uremic Toxins in Chronic Kidney Disease: Novel Therapeutic Approaches

Message from the Guest Editors

Chronic kidney disease (CKD) is a progressive condition marked by the gradual loss of kidney function, leading to the accumulation of harmful substances often referred to as uremic toxins. Traditional treatments primarily focus on controlling blood pressure, blood sugar, and other risk factors to slow kidney function decline. However, these approaches often fail to adequately address the buildup of uremic toxins, leaving patients vulnerable to their deleterious effects. Recent advancements in our understanding of CKD pathophysiology have spurred the development of novel therapeutic approaches specifically aimed at targeting uremic toxins. These include strategies such as the use of adsorbents that bind and neutralize toxins in the gastrointestinal tract, probiotics and prebiotics that alter gut microbiota to reduce toxin production, innovative pharmacological agents that enhance toxin removal or inhibit their harmful effects, and new technologies of dialysis. By focusing directly on reducing the burden of uremic toxins, these emerging therapies offer the potential to improve outcomes for CKD patients, providing a new frontier in the management of this disease.

Guest Editors

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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.

Editor-in-Chief

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