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Targeting Uremic Toxins in Chronic Kidney Disease: Novel Therapeutic Approaches

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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.





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Message from the Editor-in-Chief

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