Special Issue

Uremic Toxins and Chronic Kidney Disease

Message from the Guest Editors

Chronic kidney disease (CKD) is increasingly recognized as a systemic disorder where the accumulation of uremic toxins, largely derived from intestinal microbial metabolism of dietary precursors contributes to inflammation, oxidative stress, endothelial dysfunction, and cardiovascular morbidity. Evidence indicates dietary protein restriction, increased plant-based food intake, and supplementation with fiber or prebiotics can reduce circulating concentrations of several uremic solutes. Integrating such approaches within individualized nutritional care plans could help delay CKD progression and mitigate cardiovascular risk. However, heterogeneity in dietary adherence, gut microbiota variability, and differences in residual renal function pose significant challenges. Future research should clarify optimal dietary patterns, define reliable biomarkers of uremic toxicity, and explore synergistic combinations of diet, pharmacologic, and dialysis-based strategies. The Special Issue aims to address how dietary patterns, nutritional therapies, and lifestyle interventions influence toxin generation, inflammation, oxidative stress, and cardiovascular and renal outcomes.

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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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