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Uremic Toxins and Organ Damage

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Deadline for manuscript
submissions:

closed (31 May 2023)

Message from the Guest Editors

Uremic toxins can be defined as residues of organic compounds which cannot be excreted by the kidneys, and therefore accumulate in the systemic circulation and tissues, which hastens the progression of chronic kidney disease (CKD) and concomitant comorbidities. Uremic toxins are not fully known, but it is well established that they progressively increase in CKD, promoting several functional changes. In accordance with the European Uremic Toxins Working Group (EUTox) database, uremic toxins have been divided into three groups: small substances dissolved in water; medium-sized molecules: peptides and low-molecular-weight proteins; and protein-bound toxins. Although numerous uremic toxins have been identified to date and many of them are believed to play a role in the progression of organ damage, the pathophysiological mechanisms of uremic toxins must be investigated further in order to obtain a better understanding of their roles in organ damage or disease progression. The aim of this Special Issue is to offer a platform for both clinicians and basic researchers to present and discuss novel issues in the pathogenesis and treatment of uremic toxins associated with organ damage.





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Message from the Editor-in-Chief

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