



## Uremic Metabolites

Guest Editor:

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submissions:

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### Message from the Guest Editor

A major function of the kidneys is to rid the body of waste materials that are either ingested or produced endogenously by normal metabolism. Impaired kidney function leads to the retention of waste products, termed uremic toxins, which can be harmful/toxic to numerous tissues/organs. Several uremic toxins have been strongly linked to cardiovascular and all-cause mortality in patients with renal insufficiency. Studies have also demonstrated pathological effects of these uremic toxins in numerous cell and tissue types. Despite what has been discovered, there is still very little known about the numerous mechanisms linking uremia to the pathogenesis of disease. Further to this, advancements in metabolomics technology have pushed the field to the precipice of identifying new uremic toxins with deleterious effects. This Special Issue will focus on publishing and highlighting original research articles and reviews on uremic toxicity, including their harmful effects in cells, tissue, animals, and patients, as well as cellular mechanisms of pathogenesis and novel therapeutics to ameliorate the effects of uremic toxins.

Sincerely,

Dr. Terence Ryan  
*Guest Editor*





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## Editor-in-Chief

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## Message from the Editor-in-Chief

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