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Role of Uremic Toxins in Vascular Calcification, Vascular Disease and Bone Dysfunction

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Message from the Guest Editors

Chronic kidney disease (CKD) is a global public health problem that is associated with major adverse health events, including kidney failure, cardiovascular disease and death. Uremic retention solutes may constitute important non-traditional risk factors in this population. The members of this large group of solutes (referred to as “uremic toxins” when they perturb normal biological functions) differ in their water solubility, protein-binding capacity, molecular weight, pattern of removal by dialysis, biological properties and ability to produce clinical symptoms.

CKD is associated with extensive vascular calcification, vascular disease and abnormal bone remodelling. Moreover, growing evidence points towards a close relationship between bone and vessel. Some evidence has suggested that uremic toxins could impact the kidney–cardiovascular–bone axis.

The focus of this Special Issue of *Toxins* will include original research articles and reviews on the role of Uremic Toxins in Vascular Calcification, Vascular disease and Bone Dysfunction in these different aspects.



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Message from the Editor-in-Chief

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.

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