Special Issue

The Two-Fold Role of Uremic Retention Molecules as Toxins and Signaling Molecules

Message from the Guest Editors

While nephrologists have been conditioned to think in terms of uremic “toxins”, this traditional view is challenged by a number of observations. First, most uremic toxins and uremic solutes are present in the body in the absence of kidney dysfunction. In addition to OATs, there are transporters of these small molecules in many non-renal tissues. One possibility, consistent with a growing amount of biochemical and molecular data, is that so-called uremic toxins, while harmful when in excess in the setting of kidney failure, might have other important “non-toxic” roles in normal biology, including metabolism, signaling, regulating redox state, and gut microbiome population dynamics.

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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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