



*toxins*



an Open Access Journal by MDPI

## Study on the Uremic Toxin Targeting Mechanism

Guest Editor:

**Prof. Dariusz Pawlak**

Department of  
Pharmacodynamics, Medical  
University of Białystok, 15-522  
Białystok, Poland

Deadline for manuscript  
submissions:

**closed (31 October 2021)**

### Message from the Guest Editor

Uremic toxins are biologically active compounds accumulated in the body in the course of chronic kidney disease (CKD). Their accumulation can lead to damage to multiple organ systems, raising the risk of death in patients with CKD. The mechanisms of uremic toxicity are multifactorial and still incompletely understood. Available treatment options for end-stage renal disease are principally limited to dialysis and organ transplantation, as other treatment alternatives have proven insufficient. Renal dysfunction is a complex biological process that is mediated by genetics, epigenetics, a dysregulated form of matrix mineral metabolism, hormones, and the activation of cellular signaling pathways.

This Special Issue is specifically focused on publishing original research articles, reviews, and short communications toward discovering and understanding novel mechanisms for interaction between uremic toxins and biological systems. A better understanding of the uremic toxin targeting mechanism can prevent/reduced uremic toxin accumulation and improve management of CKD patients.



[mdpi.com/si/54129](https://mdpi.com/si/54129)

# Special Issue



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Jay Fox**

Department of Microbiology,  
University of Virginia,  
Charlottesville, VA, USA

## 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.

## Author Benefits

**Open Access:** free for readers, with **article processing charges (APC)** paid by authors or their institutions.

**High Visibility:** indexed within **Scopus**, **SCIE (Web of Science)**, **PubMed**, **MEDLINE**, **PMC**, **Embase**, **CAPLus / SciFinder**, **AGRIS**, and **other databases**.

**Journal Rank:** JCR - Q1 (*Toxicology*) / CiteScore - Q1 (*Toxicology*)

## Contact Us

---

*Toxins* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/toxins](http://mdpi.com/journal/toxins)  
[toxins@mdpi.com](mailto:toxins@mdpi.com)  
[X@Toxins\\_Mdpi](https://twitter.com/Toxins_Mdpi)