



*toxins*



an Open Access Journal by MDPI

## Analysis and Applications of Uremic Animal Models

Guest Editors:

**Prof. Dr. Karin G.F. Gerritsen**

Department of Nephrology and Hypertension, University Medical Center Utrecht, 3584 CX, Utrecht, The Netherlands

**Prof. Dr. Jaap A. Joles**

Department of Nephrology and Hypertension, University Medical Center Utrecht, 3584 CX, Utrecht, The Netherlands

Deadline for manuscript submissions:

**closed (1 December 2022)**

### Message from the Guest Editors

Uremic animal models are crucial for biomedical research into acute and chronic kidney disease as an intermediate between in vitro studies and human trials, since they may offer valuable information about pathophysiological mechanisms and are indispensable for assessing the efficacy and safety of novel drugs, biomaterials, and medical devices for kidney disease. Selecting a suitable model is essential to obtain data that can be extrapolated to the human situation. While mouse models are pivotal for genetically engineered models for elucidating gene function in kidney failure, large uremic animal models are required for preclinical testing of novel dialysis technologies. The aim of this Special Issue is to offer a platform, both for clinicians and basic researchers, to present and discuss novel aspects of uremic animal models. We do hope that all published papers will significantly improve knowledge on uremic animal models and will help in selecting the best model for a certain purpose which will contribute to replacement, reduction, and refinement in animal use.



[mdpi.com/si/97431](https://mdpi.com/si/97431)

# 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, Grosspeteranlage 5  
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)