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# Intracellular Transport of Toxins: Insights into Mechanisms of Cytotoxicity and Applications in Cell Biology and Medicine

Guest Editor:

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#### Message from the Guest Editor

All aspects of protein toxins' intracellular transport have been intensely studied in recent years. Such studies provide an important and interesting research topic because they allow: i) investigating the exact mechanisms of action of toxins and their cytotoxicity; ii) using toxins as model proteins to determine the involvement of cellular proteins at specific steps of intracellular transport; iii) applying toxins in a growing number of different medical applications. The medical approach includes the construction of vaccines and neutralizing antibodies against particular toxins, on the other hand, the unique features of protein toxins provide opportunities for their use in biomedical research, such as the therapy of cancer using immunotoxins, delivery of therapeutic drugs to cells using nanoparticle-conjugated toxins, or the use of toxins to treat protein misfolding diseases.

This Special Issue aims to bring together the latest research on the intracellular trafficking of toxins as well as to include up-to-date studies centered on broad aspects of toxin applications in cell biology and medicine. Original research articles and reviews are welcome in this Special Issue.









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### **Editor-in-Chief**

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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, peerreviewed 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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