Special Issue

Antibodies for Innovative Studies of Bacterial Toxins

Message from the Guest Editors

In microbiology, the term “toxin” refers to any substance of microbial origin capable of disrupting host–cell metabolism, often with harmful consequences for the affected organism. Since the isolation of the diphtheria toxin at the end of the 19th century, bacterial toxins have been recognized as key virulence factors responsible for causing diseases. Antibodies are crucial and ubiquitous molecules in the immune system. This unique specificity makes antibodies highly attractive for various applications, including studying in vitro and in vivo toxin pathways, detecting and diagnosing bacterial toxins, and developing therapeutic interventions. The main aim of this Special Issue is to provide an update on the role of antibodies in neutralizing bacterial toxins, contextualizing the intoxication process, and exploring how antibodies can be leveraged as therapeutic tools. It will cover the use of antibodies in understanding toxin pathways and their application in diagnosing diseases caused by toxin-producing bacteria.

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About the Journal

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.

Editor-in-Chief

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