



Evolutionary Features of Bacterial Toxins for Their Structure-Function Development

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Message from the Guest Editors

The basis of life on our planet is widely believed to be due to the biological evolution. The main reason for diversity is genetic variation coupled with random mutations. In other words, gene products, proteins, and other structural and functional biomolecules are largely responsible for producing diversity, promoting adaptational, and facilitating natural selection under a continuously changing environment. A group of interesting molecules to consider for this exercise is that of bacterial toxins. Bacterial toxins are a special group of highly evolved molecules which are involved in toxication as well as the survival of organisms. They are used as poison as well as therapeutic molecules, and interestingly, they use evolutionarily conserved biological processes of the host to execute their biological function.

Structurally, these molecules are uniquely designed and incorporate domains to construct highly effective biological molecules.

This issue will aim to incorporate the structural and functional features of bacterial toxins and put forward their unique evolutionary features.





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Message from the Editor-in-Chief

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