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Proteotranscriptomics-Guided Research on Insects and Arachnids Toxins

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Message from the Guest Editors

Dear Colleagues,

The exploration of venoms and their selected components—resulting from decades of evolution—have revealed dozens of therapeutically active and promising drug candidates. This exploration has implied various technical approaches, among which proteomics, transcriptomics, and bioinformatics are today in pole position. In this Special Issue, we first want to highlight and demonstrate—once again and again if necessary—how valuable molecules issued from insects and arthropods venoms can be for new drug candidate discovery. Since insects and arthropods account for most species of eukaryotic life on Earth, it seems obvious to expect that the richness of their venom arsenal is far from being completely explored. Second, this Special Issue aims to promote innovative results from research conducted on “noncommon” species focusing on the venom role in species adaptation. We therefore expect authors to share complete and exciting evidence of valuable action of discovered or optimized molecules.

Dr. Dominique Kadio Koua

Dr. Michail Kotsyfakis

Guest Editors



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Special Issue



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Message from the Editor-in-Chief

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