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Toxicology and Molecular Physiology of Social Insects

Guest Editor:

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Message from the Guest Editor

The toxicology and molecular physiology of insects comprise an interdisciplinary subject involving entomology, biochemistry, molecular biology, toxicology and other related fields. Additionally, molecular toxicology advances our insight into the toxicological and toxicokinetic properties of various bioactive compounds. This interdisciplinary approach is of great importance to obtaining a better understanding of the ecology and behavior of insects, elucidating insecticide toxicology and resistance mechanisms. Subsequently, this will help researchers to design more effective insecticides and biopesticides to manage targeted pests that affect agricultural production and public health, while minimizing environmental pollution and its impact on non-target organisms, as well as helping in developing integrated pest management strategies for sustainable land use. Therefore, this Special Issue seeks submissions of original research and review articles dealing with mechanistic understandings of the toxicology and molecular physiology of social insects including ants, bees, termites, and red fire ants, among others.