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Evolution, Mechanisms and Management of Insecticide Resistance

Guest Editor:

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Message from the Guest Editor

Insecticide resistance is a serious worldwide problem in all insect groups. Development of insecticide resistance management strategies involves understanding the status and mechanisms of insecticide resistance and reducing insecticide selection pressure by combining multiple chemical and non-chemical approaches.

This Special Issue will promote the subject of insecticide resistance and focus on the topic of Evolution, Mechanisms and Management of Insecticide Resistance, which provides new avenues for the control of insect pests with insecticides based on genetic and evolutionary knowledge. Research articles will cover topics related to P450mediated neonicotinoid resistance, target-site mutations associated with neonicotinoid resistance in the nAChR, mutations in the voltage-sensitive sodium channel and pyrethroid resistance, monitoring for insecticide resistance, UDP-glycosyltransferases insecticide contribute to resistance, ATP-binding cassette (ABC) transporter family related with insecticide resistance, molecular detection of insect resistance to insecticides, and insecticide resistance management strategies based on resistance mechanism and evolution.











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Message from the Editor-in-Chief

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