



Evolution, Mechanisms and Management of Insecticide Resistance

Guest Editor:

Prof. Dr. Lan Zhang

Department of Pesticide
Sciences, Chinese Academy of
Agricultural Sciences, 100193
Beijing, China

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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 P450-mediated 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 contribute to insecticide 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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Prof. Dr. Les Copeland

Sydney Institute of Agriculture,
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Sydney, Sydney, NSW 2006,
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Message from the Editor-in-Chief

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Agriculture Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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