Special Issue

Evolution, Mechanisms and Management of Insecticide Resistance

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, UDPglycosyltransferases 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.

Guest Editor

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Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. Agriculture is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

Editor-in-Chief

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