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How the Detoxification Genes Increase Insect Resistance

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Message from the Guest Editors

An important feature of insect adaptation is the evolution of resistance, including resistance to pesticides, Bt toxins and host plants. The mechanisms of insect resistance are complex and diverse. Current studies believe that the passivation of target receptors and the enhancement of metabolic enzymes are the main contributions to resistance. At present, the research on target receptor passivation is relatively clear, while the mechanism of metabolic enzymes is relatively complex, involving the variation of gene coding region, non-coding region, and regulation outside the functional gene region, which has become a hotspot of current research. This Special Issue focuses on the scientific issue of "How the Detoxification Genes Increase Insects Resistance", and invites contributions of the latest research progress and review from experts and scholars in the field.