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Challenges and Future Trends of RNA Interference in Insects

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Message from the Guest Editor

Dear Colleagues,

RNA interference (RNAi) is a powerful molecular tool that has revolutionized functional genomics and gene regulation in various organisms, including insects. Insects are critical model systems for understanding the mechanisms of RNAi and developing novel RNAi-based technologies for pest management. However, despite the significant progress made in the field, several challenges and future directions need to be addressed to fully exploit RNAi's potential in insects. The objective of this Special Issue is to provide a comprehensive overview of the current challenges and future trends of RNAi in insects. This Special Issue aims to cover a range of topics, including the mechanisms of RNAi in insects, novel delivery strategies, target gene selection, off-target effects, insect resistance, and the application of RNAi in insect pest management. This Special Issue will bring together leading experts in the field to discuss the latest advancements in RNAi technology, highlight the potential of RNAi as a tool for managing insect pests, and identify key areas for future research.