Comprehensive Application and Prospects of New Technologies for Plant Protection

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Message from the Guest Editors

The application of novel technologies for plant protection, including RNA interference (RNAi), artificial intelligence (AI) methods, nanotechnology, omics analysis, bioinformatics, gene editing, etc., has profoundly transformed traditional agriculture. These cutting-edge technologies offer diverse and promising applications, revolutionizing the prevention and management of crop pests and diseases. Their extensive research prospects and practical value underscore their significance.

The purpose and scope of this Special Issue involve exploring the applications of these novel technologies in agriculture while fostering innovation and sustainable development in crop protection.

We invite authors to submit original research (including concise communications) and unique reviews that contribute to the utilization of multiple novel techniques in agriculture. Subtopics of particular interest include (but are not limited to) the following:

- RNA interference (RNAi) technology
- Artificial intelligence (AI) methods
- Nanotechnology and new materials
- Omics analysis techniques
- Bioinformatics applications
- Gene editing techniques
- Imaging technologies

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Message from the Editor-in-Chief

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