



## Biorationals as Plant Protectants and Plant Health Strengtheners

Guest Editor:

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### Message from the Guest Editor

Dear colleagues,

As much as Plant Protection against diseases, pests, and abiotic stress is needed to safeguard yields and produce quality of crops, the demand for sustainable, low risk, or pesticide free measures is increasing. Against this background, biorationals could be promising alternatives for integrated pest and disease management. Biorational describes here plant health or protecting agents of low risk, with an acceptable efficiency making them highly interesting for in crop production. Biorationals include biologicals, extracts from plants and biological sources, basic natural products, biostimulants, plant health promoters, resistance inducers. If synthetic they are structurally similar.

This special issue will give a comprehensive overview on biorationals, their mode of actions, physiological effects, efficacies in horticultural and field crops, and implementation in management strategies. We invite all to contribute original research articles, reviews, or opinions on biorationals.

Dr. Thorsten Kraska

*Guest Editor*





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## Message from the Editor-in-Chief

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