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# Effects of Nanoparticles on Plant Growth and Development under Biotic and Abiotic Stress

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### **Message from the Guest Editors**

Dear Colleagues,

Different technologies are used to reduce the effects on agricultural crops caused by biotic and abiotic stresses. Recently, nanotechnology has attracted much attention and has been used to combat stress in plants and reduce negative effects on agricultural production, avoiding large economic losses. Various nanoparticles and nanomaterials have been used, and positive and negative biological effects have been found.

Nanotechnology is an important tool for sustainable crop production, reducing nutrient loss, suppressing disease by pathogens and thus improving yields. The idea of using nanotechnology for the sustainable production of safe food is explored from a number of perspectives, including those related to the toxicity of food and the environment.

This special issue includes articles related to the use of nanoparticles and nanomaterials to combat biotic and abiotic stress in crop production.













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#### **Editor-in-Chief**

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## **Message from the Editor-in-Chief**

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