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Insight into Plant Response to Abiotic Stress: The Role of Glyoxalase Pathway and Antioxidant System

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Message from the Guest Editor

Plant growth and crop productivity are strongly influenced by abiotic stresses, such as cold, drought, mineral imbalance, heat, and ozone. As a common consequence of plant exposure to abiotic stresses, the production of reactive oxygen species (ROS) and methylglyoxal (MG) increase. ROS and MG can react with proteins, lipids and nucleic acids, resulting in metabolic dysfunction and death.

This Special Issue will collect novel research papers and original reviews focusing on the response of the glyoxalase system and antioxidant enzymes in plants exposed to abiotic stress, with particular attention to their possible combined regulatory roles in alleviating oxidative damage and increase plant resistance to abiotic stress



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Special Issue



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Message from the Editor-in-Chief

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