



Hydrogen Peroxide

Signaling Mechanisms and Crosstalk in
Plant Development and Stress Responses

Edited by Mohd Tanveer Alam Khan,
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Hydrogen Peroxide

Hydrogen peroxide (H_2O_2) is recognized as a crucial signaling molecule that mediates physiological and biochemical processes in plants, regulating various development and stress responses. *Hydrogen Peroxide: Signaling Mechanisms and Crosstalk in Plant Development and Stress Responses* presents a comprehensive overview of hydrogen peroxide's modes of action in plants, demonstrating the important role played in plant stress signaling and communication. It introduces key topics in H_2O_2 research such as plant signaling, molecular responses, and interaction with other hormones.

Features

- Discusses experiments interrelated to H_2O_2 signaling pathway in plants under various environmental conditions.
- Addresses important concerns in H_2O_2 research from a wide range of organisms, including plants and prokaryotes such as bacteria and archaea.
- Collects, summarizes, and presents developments in plant signaling and communication.
- Aids scientists and breeders in developing strategies to enhance plant growth and stress tolerance.

Environmental stress is destructively disturbing plant growth and efficiency, resulting in concerns to improve food crop yield, and H_2O_2 has immense field implications as it is vital in regulating plant growth and stress responses. *Hydrogen Peroxide: Signaling Mechanisms and Crosstalk in Plant Development and Stress Responses* is an invaluable resource for researchers and scientists to use as a guide to conduct studies on environmental conditions of the plant hydrogen peroxide signaling systems.

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