

# NITRIC OXIDE IN PLANT GROWTH DEVELOPMENT AND STRESS PHYSIOLOGY%0A

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Nitric oxide in plant growth, development and stress physiology. Plant Cell Monographs, Volume 6. for those that are not directly involved in NO research but work on growth, development and stress biology, this is a text that they should be aware of. Overall, this is a book on an exciting topic with what appears to be an ever-increasing

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**Nitric Oxide in Plants Frontiers Research Topic**

Gaseous radical nitric oxide (NO) is a multifunctional molecule in plant systems, implicated in both physiological and pathological functions. Despite the early studies, which considered NO as an air pollutant that affected plant growth, the discovery of the ability of plants to release NO by Klepper in 1979, triggered this exciting research

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**Nitric Oxide in Plant Growth Development and Stress**

The special emphasis is on NO-dependent signalling, molecular adjustments and targets as key elements in plant growth, development and stress physiology. The first part of the book is devoted to the description of key features related to NO biochemistry, synthesis and metabolism and the modes of action involved.

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**Nitric oxide in plant growth development and stress**

Nitric oxide in plant growth, development and stress physiology. Plant Cell Monographs, Volume 6. L Lamattina, JC Polacco. eds. 2007. Heidelberg: Springer.

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**Nitric Oxide in Plant Growth Development and Stress**

Nitric Oxide in Plant Growth, Development and Stress Physiology by Lorenzo Lamattina, 9783642079542, available at Book Depository with free delivery worldwide.

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PDF | On Dec 1, 2007, John T. Hancock and others published Nitric oxide in plant growth, development and stress physiology. Plant Cell Monographs, Volume 6.

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**Nitric oxide in plant growth development and stress**

Get this from a library! Nitric oxide in plant growth, development and stress physiology. [Lorenzo Lamattina; Joseph C Polacco;] -- Recent advances in the study of nitric oxide (NO) biology, biochemistry, molecular biology and physiology in plants are presented in this book, providing an overview of current understanding of the

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### **Nitric oxide in plant growth development and stress**

Cover --Contents --Higher Plant Mitochondria as a Source for NO --Nitric Oxide --A Product of Plant Nitrogen Assimilation --NO-Based Signaling in Plants --S-Nitrosylation in Plants --Spectrum and Selectivity --Enzymatic Sources of Nitric Oxide during Seed Germination --Seeking the Role of NO in Breaking Seed Dormancy --Nitric Oxide Functions as Intermediate in Auxin, Abscisic Acid, and Lipid  
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#### **Nitric Oxide Improves Internal Iron Availability in Plants**

Iron deficiency impairs chlorophyll biosynthesis and chloroplast development. In leaves, most of the iron must cross several biological membranes to reach the chloroplast. The components involved in the complex internal iron transport are largely unknown. Nitric oxide (NO), a bioactive free radical, can react with transition metals to form

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#### **Nitric Oxide in Plant Growth Development and Stress**

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#### **Functional role of nitric oxide in plants SpringerLink**

The review considers involvement of nitric oxide (NO) in regulation of basic physiological processes underlying growth, development, and senescence in plants. The NO sources in plants, as well as Functional role of nitric oxide in plants | SpringerLink

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#### **Nitric oxide NO and phytohormones crosstalk during early**

Research over the last decades has identified nitric oxide (NO) as a rapidly induced and potent plant growth regulator. This low molecular weight gaseous compound not only increases during stress responses, but also during specific plant developmental processes ( Delledonne, 2005 ).

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#### **Nitric Oxide Production in Plants PubMed Central PMC**

Key Words: chemiluminescence, DAF-fluorescence, mitochondria, nitrate reductase, nitric oxide, nitric oxide synthase, NO detection, NO signaling Introduction The last decade has brought many new insights into pathways of NO production and NO functions in plants, and to date the role of NO in plants appears even more multi-faceted than in animals.

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#### **Nitric Oxide in Plant Growth Development and Stress**

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