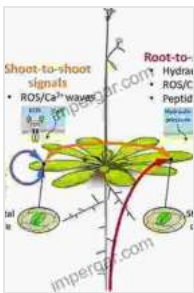


Ion Channels and Plant Stress Responses: Signaling and Communication in Plants

Ion channels are pore-forming proteins that allow the passage of ions across biological membranes. They play a critical role in a wide range of cellular processes, including signaling, communication, and homeostasis. In plants, ion channels have been shown to be involved in a variety of stress responses, including drought, heat, cold, and salinity.



Ion Channels and Plant Stress Responses (Signaling and Communication in Plants) by Timothy Treadwell

★★★★★ 5 out of 5

Language : English
File size : 2652 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 445 pages



This book provides a comprehensive overview of the role of ion channels in plant stress responses, including their molecular mechanisms, physiological functions, and potential applications in crop improvement.

The book is divided into three parts:

1. The first part introduces the basics of ion channel structure and function, and discusses the different types of ion channels that have been identified in plants.

2. The second part reviews the role of ion channels in plant stress responses, including their involvement in signal transduction, ion homeostasis, and cell volume regulation.
3. The third part explores the potential applications of ion channels in crop improvement, such as the development of drought-tolerant and heat-tolerant crops.

This book is a valuable resource for plant scientists, agronomists, and crop breeders who are interested in understanding the role of ion channels in plant stress responses and developing new strategies for crop improvement.

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- Dr. Xaiolin Wang, Professor of Plant Physiology, University of California, Davis

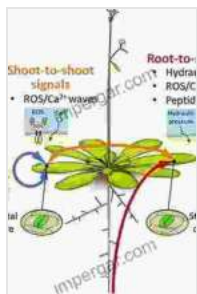
"This book is a timely and important contribution to the field of plant stress physiology. It provides a comprehensive overview of the role of ion channels in plant stress responses, including their molecular mechanisms, physiological functions, and potential applications in crop improvement. It is a valuable resource for plant scientists, agronomists, and crop breeders who are interested in understanding the role of ion channels in plant stress responses and developing new strategies for crop improvement."

- Dr. Xinnian Dong, Professor of Plant Molecular Biology, Chinese Academy of Agricultural Sciences

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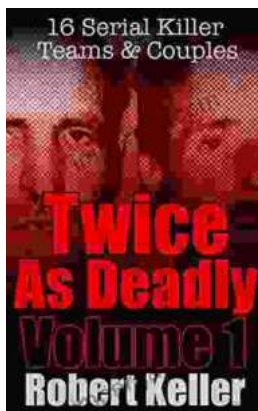
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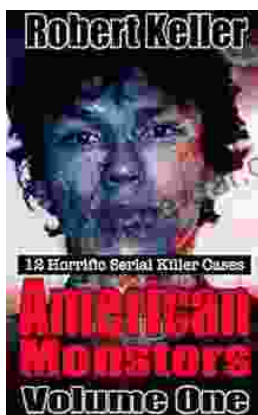
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