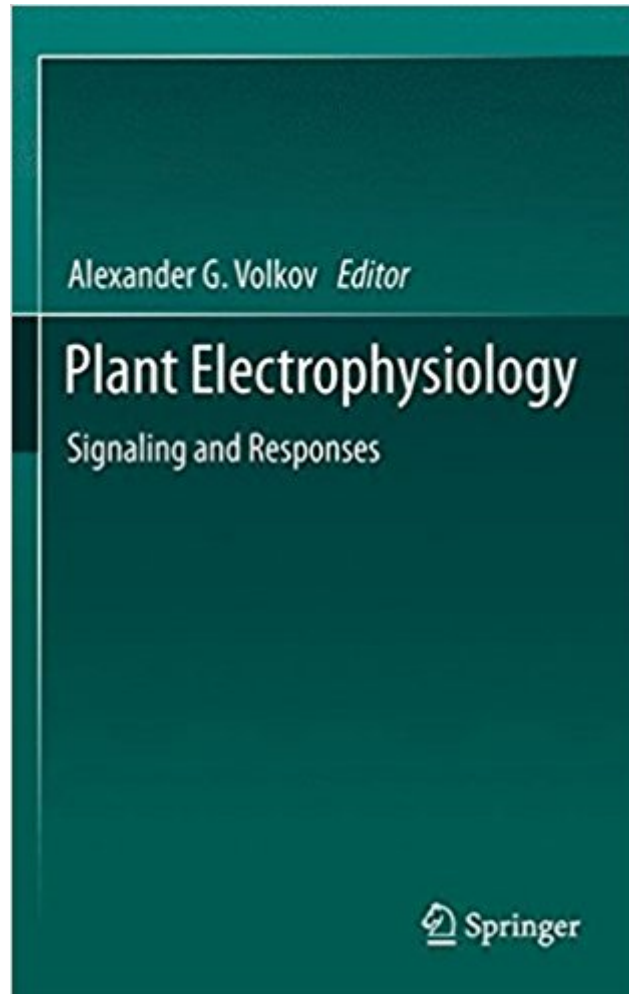




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# Plant Electrophysiology: Signaling And Responses



## Synopsis

This book, written by the leading experts in the field of plant electrophysiology, provides a comprehensive and up-to-date overview of the current state of knowledge on electrical signaling and responses in plant physiology. It covers a significant interdisciplinary area for a broad range of researchers, emphasizing the physical, chemical, biological, and technological aspects of plant electrophysiology, while also demonstrating the role of electrochemical processes and ion channels in plant life cycles. Separate chapters describe the electrophysiology of the Venus flytrap, the Telegraph plant, *Mimosa pudica*, and other interesting plant species. Subsequent sections focus on mechanisms of plant movement, the role of ion channels, morphing structures, and the effects of electrical signal transduction on photosynthesis and respiration. Further topics include the electrophysiology of plant-insect interactions, how plants sense different environmental stresses and stimuli, and how phytoactuators respond to them. All chapters analyze the generation and transmission of electrical signals in plants.

## Book Information

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From the reviews: "Rainer Stahlberg gives a short and concise historical introduction to plant electrophysiology. [Taken together, valuable technical information about selected electrophysiological techniques and underlying theories is provided for interested students and specialized scientists. \[it can be recommended to students and researchers looking for a guide to techniques around noninvasive ion flux measurements, other selected techniques, and\]\(#\)](#)

insights into the diversity of electrophysiological events in plants." (Petra Dietrich, Journal of Plant Physiology, Vol. 164 (11), 2007) --This text refers to an out of print or unavailable edition of this title.

This book, written by the leading experts in the field of plant electrophysiology, provides a comprehensive and up-to-date overview of the current state of knowledge on electrical signaling and responses in plant physiology. It covers a significant interdisciplinary area for a broad range of researchers, emphasizing the physical, chemical, biological, and technological aspects of plant electrophysiology, while also demonstrating the role of electrochemical processes and ion channels in plant life cycles. Separate chapters describe the electrophysiology of the Venus flytrap, the Telegraph plant, Mimosa pudica, and other interesting plant species. Subsequent sections focus on mechanisms of plant movement, the role of ion channels, morphing structures, and the effects of electrical signal transduction on photosynthesis and respiration. Further topics include the electrophysiology of plant-insect interactions, how plants sense different environmental stresses and stimuli, and how phytoactuators respond to them. All chapters analyze the generation and transmission of electrical signals in plants.

It is a fine collection of papers on a subject that has been neglected by the scientific community.

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