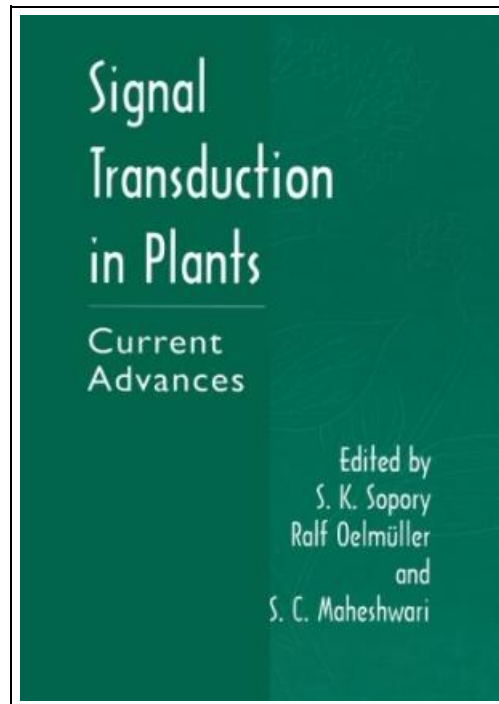


Signal Transduction in Plants



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Reviews

Extensive manual! Its such a great read. It really is loaded with knowledge and wisdom You wont really feel monotony at at any time of your time (that's what catalogs are for regarding if you ask me).

(Myrl Hintz)

SIGNAL TRANSDUCTION IN PLANTS



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Book Condition: New. Publisher/Verlag: Springer, Berlin | Current Advances | Proceedings of the first ICGEB Symposium on Plant Signal Transduction, held 4-6 October, 1999, in New Delhi, India | An understanding of the mechanisms by which plants perceive environmental cues, both physical and chemical, and transduce the signals that influence specific expression of genes, is an area of intensive scientific research. With the completion of the genome sequence of Arabidopsis it is understood now that a larger number of genes encode for proteins involved in signalling cascades and transcription factors. In this volume, different chapters deal with plant receptors, second messengers like calcium ions, phosphoinositides, salicylic acid and nitrous oxide, calcium binding proteins and kinases. In addition to dealing with the response of plants to light, hormones, pathogens, heat, etc. on cellular activity, work currently going on in apoptosis, cell division, and plastid gene expression is also covered in this book. | 1. Differential Perception of Environmental Light by Phytochromes; M. Furuya.2. Functions and Actions of Arabidopsis phytochromes; K.J. Halliday, et al.3. Signal Transduction in Photomorphogenesis: Intracellular Partitioning of Factors and Photoreceptors; E. Schäfer, et al.4. Molecular Genetic Analysis of Constitutively Photomorphogenic Mutants of Arabidopsis; J.P. Khurana, et al.5. Cytosolic pH as a Secondary Messenger During Light Activation of Phosphoenolpyruvate Carboxylase in Mesophyll Cells of C4 Plants; Ch.B. Rao, et al.6. A Role for Ectoapyrases and Extracellular ATP in Plant Growth and Development; S.J. Roux, et al.7. Auxin- and GTP-binding Proteins and Protein Kinases from the Protonema of the Moss *Funaria hygrometrica*; M.M. Johri, et al.8. Myoinositol Phosphates as Implicated in Metabolic Signaling and Calcium Homeostasis in Plants; S. Dasgupta, et al.9. The Phosphoinositide (PI) Pathway and Signaling in Plants; I.Y. Perera, et al.10. Phytochrome Signal Transduction in Cucumber Cotyledons; D. Vidal, et al.11. Calcium, Calmodulin and Phosphoinositides in Leaflet...



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