

1. Record Nr.	UNINA9910349508403321
Titolo	Bioactive Molecules in Plant Defense : Signaling in Growth and Stress // edited by Sudisha Jogaiah, Mostafa Abdelrahman
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-27165-X
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (XIV, 258 p. 45 illus., 26 illus. in color.)
Disciplina	660.6
Soggetti	Biotechnology Botanical chemistry Bioorganic chemistry Botany Mycology Agriculture Plant Biochemistry Bioorganic Chemistry Plant Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Plant Growth Promoting Fungi: Diversity and Classification -- Microbial Signaling and Plant Growth Promotion -- Role of Elicitors in Plant Defense Signaling -- Plant-Microbe Interaction: Gene-to-Metabolite Network -- Phytohormones in the Modulation of Plant Cellular Responses to Stress -- Reactive Oxygen Species Generation-Scavenging and Signaling -- Lipoxygenase Signaling in Plant Defense -- Alkaloid Role in Plant Defense -- Beta-Glucosidases as detonators of Plant Chemical Defense -- Plant Nutritional Deficiency and its Impact on Crop Production.
Sommario/riassunto	This book focuses on signaling molecules in plant defense, outlining some of the most important cellular and chemical plant defense strategies during periods of stress and growth. Written by leading experts, it covers topics such as the diversity of plant-growth-promoting fungi, the gene-to-metabolite network of plant-microbe

interactions, modulation of plant cellular responses to stress, and how plant nutritional deficiency affects crop production. Together with the companion volume *Bioactive Molecules in Plant Defense: Saponins*, this book offers an essential source of information for postgraduate students and researchers interested in plant pathology, mycology and sustainable agriculture.
