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Nota di contenuto	Chapter 1 Plant elicitation with salicylic acid as a tool for enhance bioactive compounds -- Chapter 2 Salicylic acid increases root size that favours the absorption and accumulation of macro and micronutrients that contribute to biomass production -- Chapter 3 The role of salicylic acid in plant reproductive development -- Chapter 4 The role of salicylic acid in pre- and post-harvest attributes in horticulture -- Chapter 5 Foliar applications of salicylic acid for improving crop tolerance to drought stress: a review -- Chapter 6 Salicylic acid and drought stress response: physiological to genomics principle -- Chapter 7 Interplay between environmental signals and endogenous salicylic acid -- Chapter 8 The role of salicylic acid in crops to tolerate abiotic stresses -- Chapter 9 Interplay between salicylates and jasmonates under stress -- Chapter 10 Increasing evidence on the relationship between salicylic acid and polyamines in plants -- Chapter

11 Salicylic acid and melatonin crosstalk in plants -- Chapter 12 A dynamic crosstalk between GSH and salicylic acid to mitigate environmental stress -- Chapter 13 Crosstalk between salicylic acid signalling and betalains biosynthesis -- Chapter 14 Regulation of SA-mediated signal transduction in plant immune system -- Chapter 15 The role of phytohormones including salicylic acid in potato tuber development -- Chapter 16 Potato virus elimination as short and long-term effect of salicylic acid is mediated by oxidative stress and induction of tolerance to thermotherapy or cryotherapy -- Chapter 17 The role of salicylic acid in mitigation of biotic stress -- Chapter 18 The role of salicylic acid in the immune system of plants.

Sommario/riassunto

Phytohormones are known to affect the growth and development of plant directly as well as indirectly. Salicylic acid (SA) is a phenolic phytohormone which induces systemic resistance in plants and also regulates defence responses. The derivatives of SA also play an important role in the regulation of various physiological and developmental processes in plants under normal and stressful environmental conditions. SA regulates seed germination, photosynthesis, ethylene biosynthesis, enzyme activities, nutrition, flowering, legume nodulation and overall growth and development of plant. Recently, advancement in elucidating the specific pathways of SA signal transduction has been noticed which helps in understanding the expression of specific genes associated with different developmental programs. The horizon of SA-mediated regulation of various physiological processes has also expanded, and various studies enumerating the efficacy of exogenously applied SA in practical agriculture have also been documented. Therefore, information regarding such recent developments needs to be compiled in the form of a book. This book aims to provide a collective information regarding SA which makes it a versatile plant growth regulator. The chapters included both theoretical and practical aspects that could be of immense use for researches and possible significant developments in future. It is intended that this book will be a help for students, teachers, and researchers, in understanding the relation between the phytohormone and agricultural sciences.