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Titolo	Elicitors for Sustainable Crop Production : Overcoming Abiotic Stress Challenges in Plants // edited by Heba I. Mohamed
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2026
ISBN	9789819535330
Edizione	[1st ed. 2026.]
Descrizione fisica	1 online resource (576 pages)
Collana	Agroecosystem Dynamics and Sustainable Practices, , 3059-2488
Disciplina	620.5 660.6
Soggetti	Nanobiotechnology Stress (Physiology) Plants Plants - Disease and pest resistance Plant biotechnology Plant Stress Responses Plant Immunity Plant Biotechnology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	-- Chapter 1: Genotype x environment interaction in breeding programs: wide vs. specific adaptation -- Chapter 2: Impact of genotype-by-environment interaction on grain yield and related traits in multi-environment trials -- Chapter 3: QTL x environmental interactions underlying phenotypic stability or plasticity in crops: Which one to utilize -- Chapter 4: Contribution of yield related traits to GxE interaction for grain yield -- Chapter 5: Does Modern Plant Breeding Techniques Increase Crop Stability Performance -- Chapter 6: Does breeding for abiotic stress tolerance mitigate GxE interactions under a changing climate -- Chapter 7: Impact of biotic stresses influence on wheat GxE interactions and yield performance -- Chapter 8: Do soil properties significantly influence the GxE interaction of crop varieties? -- Chapter 9: Efficiency of multivariate statistical models in analysis of GxE interactions -- Chapter 10:A comparative study among multivariate statistical methods for analysing GxE interaction --

Chapter 11: Does drought tolerance enhance crop stability performance? -- Chapter 12: Genomic selection role to mitigate G×E interaction in plant breeding -- Chapter 13: Can selection in segregating population reduce the effects of G×E interactions in breeding programs? -- Chapter 14: A comparative study among parametric and non-parametric univariate stability statistics for stability analysis -- Chapter 15: An introductory guide to the usage of statistical softwares for investigating G×E interaction: from theory to application.

Sommario/riassunto

This book offers an approach to overcoming the challenges of abiotic stress in agriculture. By focusing on the role of plant elicitors, it provides a comprehensive exploration of how these compounds can activate a plant's immune system, leading to increased resistance against stressors such as salt, heavy metals, and temperature fluctuations. The chapters delve into a range of topics, including the cellular and molecular mechanisms modulated by elicitors, the protocols for their application, and their potential to reduce oxidative damage in plants. The book also addresses the critical questions such as the efficacy of plant elicitors in promoting sustainable agriculture. It also provides information on how physical and chemical treatments can activate plant defense systems and the role of elicitors in achieving a healthier, more productive harvest. Designed for researchers, agricultural professionals, and farmers, this book offers innovative solutions to the challenges of abiotic stress in crops. It provides practical strategies for safeguarding crops and enhancing productivity, making it an invaluable resource for anyone interested in advancing sustainable agricultural practices.

2. Record Nr.	UNINA9910894467503321
Titolo	High speed machining
Pubbl/distr/stampa	Warsaw, Poland : , : De Gruyter Open
ISSN	2299-3975
Soggetti	High-speed machining Metal-cutting Periodicals.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed