

1. Record Nr.	UNINA9910409686203321
Autore	Glick Bernard R.
Titolo	Beneficial Plant-Bacterial Interactions // by Bernard R. Glick
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-44368-X
Edizione	[2nd ed. 2020.]
Descrizione fisica	1 online resource (390 pages)
Disciplina	572.82
Soggetti	Microbiology Plant physiology Agriculture Plant Physiology Fisiologia vegetal Microbiologia agrícola Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Chapter 1: Introduction to Plant Growth-Promoting Bacteria -- Chapter 2 Microbiomes and Endophytes -- Chapter 3: Some Techniques Used to Study Plant-Microbe Interactions -- Chapter 4: Resource Acquisition -- Chapter 5: Modulation of Phytohormone Levels -- Chapter 6: Biocontrol of Bacteria and Fungi -- Chapter 7: Biocontrol of Insects and Nematodes -- Chapter 8: Environmental Interactions -- Chapter 9: Mycorrhizal-Plant Interactions -- Chapter 10: Phytoremediation -- Chapter 11: Issues Regarding the Use of PGPB.
Sommario/riassunto	This book provides a straightforward and easy-to-understand overview of beneficial plant-bacterial interactions. It features a wealth of unique illustrations to clarify the text, and each chapter includes study questions that highlight the important points, as well as references to key experiments. Since the publication of the first edition of Beneficial Plant-Bacterial Interactions, in 2015, there has been an abundance of new discoveries in this area, and in recent years, scientists around the globe have begun to develop a relatively detailed understanding of many of the mechanisms used by bacteria that facilitate plant growth

and development. This knowledge is gradually becoming an integral component of modern agricultural practice, with more and more plant growth-promoting bacterial strains being commercialized and used successfully in countries throughout the world. In addition, as the world's population continues to grow, the pressure for increased food production will intensify, while at the same time, environmental concerns, mean that environmentally friendly methods of food production will need to replace many traditional agricultural practices such as the use of potentially dangerous chemicals. The book, intended for students, explores the fundamentals of this new paradigm in agriculture, horticulture, and environmental cleanup.
