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Nota di contenuto	Front Cover; ADVANCES IN BOTANICAL RESEARCH; Plant Microbe Interactions; Copyright; CONTENTS; CONTRIBUTORS; PREFACE; One - Not Just Sweet Talkers: How Roots Stimulate Their Colonization by Beneficial Bacteria; 1. INTRODUCTION; 2. ATTRACTION; 3. NUTRITION; 4. COLONIZATION; 5. GENERAL EFFECTS; 6. COMPOUNDS FROM THE PLANT THAT AFFECT THE PGP EFFECT OF BACTERIA; 7. CONCLUSION AND PERSPECTIVES; REFERENCES; Two - Molecular Patterns of Rhizobacteria Involved in Plant Immunity Elicitation; 1. HOST RESISTANCE ELICITATION AS PART OF RHIZOBACTERIA-MEDIATED BIOCONTROL 2. GLOBAL ASPECT OF MICROBE-INDUCED PLANT IMMUNITY3. MAMPS FROM BACTERIAL PATHOGENS AND EARLY PHYSIOLOGICAL/SIGNALLING EVENTS ASSOCIATED WITH THEIR PERCEPTION; 3.1 Molecular Patterns and Cognate Receptors; 3.2 Early Physiological Responses and Signalling; 4. ELICITORS OF PLANT IMMUNITY FROM BENEFICIAL BACTERIA; 4.1 Surface-Exposed MAMPS; 4.2 Secreted Compounds; 4.2.1 Exopolysaccharides; 4.2.2 Iron-Regulated Metabolites; 4.2.2.1 Pyoverdines/Pseudobactins; 4.2.2.2 Salicylic Acid (SA) and SA-Derived Siderophores; 4.2.3 Alkyl Chain-Containing Metabolites; 4.2.3.1 Lipopeptides 4.2.3.2 Rhamnolipids 4.2.3.3 N-Acyl-L-Homoserine Lactones; 4.2.3.4

N-Alkylated Benzylamine Derivative; 4.2.4 Elicitors with Antibiotic Function; 4.2.5 Volatiles; 4.2.6 Other Elicitors; 4.3 Multiple Compounds Involved in Plant Defence Elicitation by a Single PGPR Strain; 4.4 Host Perception of PGPR Elicitors; 4.4.1 Recognition at the Plant Cell Surface; 4.4.2 Downstream Early Signalling and Defence-Related Events; 5. CONCLUDING REMARKS; ACKNOWLEDGEMENT; REFERENCES; Three - Root Microbiome Assemblage is Modulated by Plant Host Factors; 1. INTRODUCTION
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4.1.1 Nitrogen Fixation4.1.2 Phosphorus Solubilization; 4.1.3 Absorption of Iron; 4.1.4 Phytostimulators; 4.1.4.1 Indole-3-Acetic Acid; 4.1.4.2 Gibberellin; 4.1.4.3 Cytokinin; 4.1.4.4 Regulating Plant Ethylene Levels; 4.2 PGPR as Biopesticides; 4.3 PGPR as Bioremediators; 5. COMMERCIALIZATION OF PGPR; 6. CONCLUSION; ACKNOWLEDGEMENTS; REFERENCES; Five - Human Pathogen-Plant Interactions: Concerns for Food Safety; 1. INTRODUCTION: MERGING PLANT SCIENCE AND FOOD SCIENCE TO ADDRESS FOOD SAFETY; 2. HUMAN PATHOGENS ON PLANTS; 3. HUMAN PATHOGEN INTERACTIONS WITH PHYTOBACTERIA AND RHIZOBACTERIA
4. RELATIONSHIPS BETWEEN PLANT STOMATA, CIRCADIAN RHYTHM AND HUMAN PATHOGENS

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Sommario/riassunto	In this groundbreaking study of organic farming, Julie Guthman challenges accepted wisdom about organic food and agriculture in the Golden State. Many continue to believe that small-scale organic farming is the answer to our environmental and health problems, but Guthman refutes popular portrayals that pit "small organic" against "big organic" and offers an alternative analysis that underscores the limits of an organic label as a pathway to transforming agriculture. This second edition includes a thorough investigation of the federal organic program, a discussion of how the certification arena has continued to grow and change since its implementation, and an up-to-date guide to the structure of the organic farming sector. <i>Agrarian Dreams</i> delivers an indispensable examination of organic farming in California and will appeal to readers in a variety of areas, including food studies,

agriculture, environmental studies, anthropology, sociology, geography, and history.
