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| Nota di contenuto | Cover -- Title Page -- Copyright Page -- Contents -- Introduction -- Chapter 1. Regulatory Aspects of Biocontrol -- 1.1. Regulatory |

definition of biocontrol -- 1.1.1. Definitions of biocontrol -- 1.1.2. Applicable regulations -- 1.2. Current issues and limitations -- 1.2.1. The 3 PPP pillars -- 1.2.2. Fourth pillar -- 1.2.3. Limits with crop protection in Organic Agriculture -- 1.2.4. Limits of biocontrol: contentious substances! -- 1.3. A mixed evolution -- 1.3.1. Struggling bases -- 1.3.2. Achieved progress -- 1.3.3. Regulatory relief for semiochemicals -- 1.3.4. Regulatory relief for microorganisms -- 1.3.5. Regulatory relief for natural substances -- 1.4. Necessary evolutions -- 1.4.1. At the EU level -- 1.4.2. At the national level (France) -- 1.5. Conclusion -- 1.6. References -- Chapter 2. Biological Controls in Horticulture -- 2.1. Introduction -- 2.1.1. Horticulture in Europe -- 2.1.2. Biocontrol solutions in horticulture -- 2.1.3. Biostimulants, complementary to biocontrol -- 2.1.4. A biocontrol example: TRIANUM® P and G approval in France -- 2.2. Biological controls in horticulture -- 2.3. Physiological trade-offs for growth and immunity -- 2.4. Eco-innovations and economic trade-offs -- 2.4.1. Determinants of eco-innovation and trade-offs at the farmer level -- 2.4.2. Influence of sectoral innovation patterns -- 2.5. Challenges and perspectives -- 2.6. Concluding remarks -- 2.7. References -- Chapter 3. Development of Omics Tools for the Assessments of the Environmental Fate and Impact of Biocontrol Agents -- 3.1. Introduction: emergence of biocontrol agents and their risks -- 3.2. Evaluation methodologies: an overview -- 3.3. Limitations of classic methodologies -- 3.4. Omics: potential tools for risks assessment? -- 3.4.1. Genomics for (bio)pesticides and BCAs risks assessment. 3.4.2. Metabolomics for (bio)pesticides and BCAs risks assessment -- 3.5. Perspectives -- 3.6. List of abbreviations -- 3.7. Acknowledgments -- 3.8. References -- Chapter 4. Plant Secondary Metabolites Mode of Action in the Control of Root-Knot Nematodes -- 4.1. Introduction -- 4.2. Recent research on the use of plant secondary metabolites to control *Meloidogyne* spp. -- 4.2.1. Small-scale experiments reporting in vitro efficacy -- 4.2.2. Large-scale experiments reporting in vivo efficacy -- 4.2.3. Mechanism of action -- 4.3. Conclusion -- 4.4. References -- Chapter 5. Agro-industrial By-products and Waste as Sources of Biopesticides -- 5.1. Introduction -- 5.2. Biopesticidal properties of pyrolysis products from agro-industrial waste -- 5.3. Biopesticidal properties of hydrolates: by-products of essential oil distillation -- 5.4. Biopesticidal properties of olive oil mill waste -- 5.5. Conclusion and future directives -- 5.6. Acknowledgments -- 5.7. References -- Chapter 6. Antimicrobial and Defense Elicitor Peptides as Biopesticides for Plant Disease Control -- 6.1. Introduction -- 6.2. Peptides of microbial origin -- 6.2.1. Bacteriocins -- 6.2.2. Cyclic lipopeptides -- 6.2.3. Peptaibols -- 6.2.4. Other types of peptides produced by microorganisms -- 6.3. Peptides from plants -- 6.3.1. Antimicrobial peptides from plants (AMPs) -- 6.3.2. Damage-associated molecular patterns (DAMPs) -- 6.4. Peptides from animals -- 6.4.1. Antimicrobial peptides in animals -- 6.4.2. Peptides from animal origin active against plant pathogens and diseases -- 6.5. Synthetic peptides -- 6.5.1. Development of synthetic peptides -- 6.5.2. Synthetic peptides against plant pathogens and diseases -- 6.6. Biotechnological production of peptides -- 6.6.1. Microbial systems -- 6.6.2. Microalgae systems -- 6.6.3. Plant systems -- 6.7. References. Chapter 7. Biocontrol of Plant Pathogens via Quorum Quenching -- 7.1. Quorum quenching to counteract quorum sensing -- 7.2. Quorum sensing inhibitors -- 7.3. Quorum quenching enzymes -- 7.4. Quorum quenching biocontrol agents -- 7.5. Monitoring of quorum quenching biocontrol agents and activities -- 7.6. Biostimulation of quorum quenching -- 7.7. Management of quorum quenching treatments --

7.8. Quorum quenching in biocontrol: perspectives -- 7.9. Acknowledgments -- 7.10. References -- Chapter 8. Phage-mediated Biocontrol Against Plant Pathogenic Bacteria -- 8.1. Introduction -- 8.1.1. A tale of bacteriophages -- 8.1.2. Phage biology, cycle, host range and resistance mechanisms -- 8.1.3. Phage ecology on plant-associated ecosystem -- 8.2. Bacteriophages for plant health -- 8.2.1. Phage-based biocontrol against plants pathogens -- 8.2.2. Optimizing a phage-based preparation -- 8.2.3. Pros and cons of phage biocontrol on crop protection -- 8.3. Phage-based biocontrol regulations -- 8.4. Conclusions and perspectives -- 8.5. Acknowledgments -- 8.6. References -- Chapter 9. Microbiome-assisted Agriculture: Current Knowledge and Future Directions -- 9.1. Introduction -- 9.1.1. The plant microbiome -- 9.1.2. Composition of the plant microbiome -- 9.1.3. Contribution of the microbiome to plant fitness -- 9.2. Microbiome-mediated benefits for plants -- 9.2.1. Disease suppressive soils -- 9.2.2. Induced resistance and soilborne legacy -- 9.2.3. Nutrient stress and microbiome -- 9.2.4. Plant immune system and microbiome -- 9.3. Chemical cues derived from plants and microbes guide microbiome assembly -- 9.3.1. Microbiome assembly mediated by host plants -- 9.3.2. Microbiome assembly mediated by microbe-microbe interactions -- 9.4. Plant and soil microbiome engineering -- 9.4.1. "Cry for help" strategy for the plant to accumulate beneficial microbes. -- 9.4.2. Microbial strategies for plant and soil microbiome engineering -- 9.4.3. Chemical strategies for plant and soil microbiome engineering -- 9.4.4. Molecular strategies: genetic modification and breeding -- 9.5. Concluding remarks and future perspectives -- 9.6. References -- List of Authors -- Index -- EULA.

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