

1. Record Nr.	UNINA9910452841103321
Titolo	Microbial ecology in sustainable agroecosystems // edited by Tanya E. Cheeke, David C. Coleman, Diana H. Wall
Pubbl/distr/stampa	Boca Raton, Fla. : , : CRC Press, , 2013
ISBN	0-429-10478-2 1-4398-5297-9
Descrizione fisica	1 online resource (302 p.)
Collana	Advances in agroecology
Altri autori (Persone)	CheekeTanya E ColemanDavid C. <1938-> WallDiana H
Disciplina	631.4/6
Soggetti	Soil microbial ecology Agricultural ecology Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Front Cover; Contents; Foreword; Preface; Acknowledgments; About the Editors; Contributors; Chapter 1: Soil ecology and agroecosystem studies: A dynamic and diverse world; Chapter 2: Manipulation of beneficial microorganisms in crop rhizospheres; Chapter 3: The influence of heterogeneity on soil microbial processes in agroecosystems: Theory, evidence, and opportunities; Chapter 4: Soil food webs in agricultural ecosystems; Chapter 5: Community composition of soil organisms under different wheat-farming systems; Chapter 6: The biological basis for nitrogen management in agroecosystems Chapter 7: The contribution of arbuscular mycorrhizal fungi to the success or failure of agricultural practicesChapter 8: Effects of the cultivation of genetically modified Bt crops on nontarget soil organisms; Chapter 9: Maize legume relay intercrops in Malawi: Meeting short- and long-term sustainability goals; Chapter 10: Making soil biodiversity matter for agriculture: Ecosystem services and challenges
Sommario/riassunto	While soil ecologists continue to be on the forefront of research on

biodiversity and ecosystem function, there are few interdisciplinary studies that incorporate ecological knowledge into sustainable land management practices. Conventional, high fossil-fuel input-based agricultural systems can reduce soil biodiversity, alter soil community structure and nutrient cycling, and lead to greater dependence on energy-intensive practices. Microbial Ecology in Sustainable Agroecosystems brings together soil ecologists, microbial ecologists, and agroecologists working globally to demonstrate how resea
