1. Record Nr. UNINA990003247800403321

Autore	Myers, Norman
Titolo	Scarsità o abbondanza? : un dibattito su ambiente ed economia / Norman Mayers e Julian L. Simon ; prefazione e cura dell'edizione italiana di Gianfranco Bologna
Pubbl/distr/stampa	Padova, : Muzzio, 1995
ISBN	88-7021-734-5
Descrizione fisica	246 p.
Altri autori (Persone)	Simon, Julian Lincoln <1932-1998>
Disciplina	333.713
Locazione	DECGE
Collocazione	048.002.MYE
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9910966502403321

Titolo	Phosphate solubilizing microbes for crop improvement / / Mohammad Saghir Khan and Almas Zaidi, editors
Pubbl/distr/stampa	New York, : Nova Science Publishers, c2009
ISBN	1-61728-561-7
Edizione	[1st ed.]
Descrizione fisica	1 online resource (473 p.)
Collana	Agriculture issues and policies series
Altri autori (Persone)	KhanMohammad Saghir ZaidiAlmas
Disciplina	579/.1757
Soggetti	Soil microbiology Phosphates - Solubility Crop improvement
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 and index.
Nota di contenuto	Biological importance of phosphorus and phosphate solubilizing microbes: an overview -- Novel approaches for analysis of biodiversity of phosphate-solubilizing bacteria -- Effects of phosphate-solubilizing microorganism on soil phosphorus fractions -- Role of plant growth promoting microorganisms for sustainable crop production -- Genetic and functional diversity of phosphate solubilizing fluorescent pseudomonads and their simultaneous role in promotion of plant growth and soil health -- Practical use of phosphate solubilizing soil microorganisms -- Phosphate-solubilization by psychrophilic and psychrotolerant microorganisms: an asset for sustainable agriculture at low temperatures -- Beneficial microbes in sustainable tropical crop production -- Molecular genetics of phosphate solubilization in rhizosphere bacteria and its role in plant growth promotion -- Strategies for development of microphos and mechanisms of phosphate-solubilization -- Variation in plant growth promoting activities of phosphate-solubilizing microbes and factors affecting their colonization and solubilizing efficiency in different agro-ecosystems -- Management of plant diseases using phosphate-solubilizing microbes -- Phosphate solubilizing microbes: potentials and success in greenhouse and field applications -- Genetic and phenotypic characterization of phosphate-solubilizing bacteria and their effects on

growth and symbiotic properties of alfalfa plants -- Microbial facilitation of phosphorus nutrition in sugarcane -- Phosphate solubilizing microorganisms for augmenting crop nutrition -- Phosphate solubilizing microorganisms: prospects, promises and problems -- Genetic manipulations of metal accumulation and heavy metal tolerance: improving plants for environmental remediation -- Biological control of plant nematodes with phosphate-solubilizing microorganisms.

Sommario/riassunto

'Phosphate Solubilizing Microbes for Crop Improvement' provides a comprehensive source of information on strategies and concepts of microbial technology especially phosphate-solubilising microbes for the improvement of crops in different agro-ecosystems. The book presents the biological importance of phosphorus and strategies adopted for isolation and screening of PSM (s), mechanisms of P solubilization, mechanisms of plant growth promotion, and method for the development of microphos. Furthermore, some novel approaches including molecular tools used to identify the potential phosphate-solubilising microbes are presented. The recent advances in understanding the genetics and molecular biology of phosphate-solubilizing bacteria and the genetic engineering of bacterial strains with enhanced phosphate-solubilizing activity are discussed that is likely to lead to improve the efficiency of microphos inoculants and crop productivity. The problems, prospect and potentials of phosphate-solubilising microbes and their impact on agronomically important crops grown in conventional soils are discussed separately. Special attention is paid to highlight the functional variations within phosphate-solubilising microbes and to understand the impact of various factors on the phosphate-solubilising efficiency and colonization of such naturally occurring organisms. The synergism between phosphate-solubilizing microbes and other plant growth promoting rhizobacteria/arbuscular mycorrhizal fungi and their interactive effect on crop productivity is highlighted separately. The book also presents a broad and updated view of the management of plant diseases using phosphate-solubilising microbes. The book further describes as to how the growth promoting rhizobacteria facilitate plant growth and how advanced information strategies can be used to manipulate and modify the soil environment.