



Review Paper

## Role of Bio-Fertilizer in Organic Agriculture: A Review

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### Abstract

*Bio-fertilizers are one of the best modern tools for agriculture. It is a gift of our modern agricultural science. Biofertilizers are applied in the agricultural field as a replacement to our conventional fertilizers. Conventional fertilizers contain compost, household wastes and green manure. Those are not as effective as chemical fertilizers. So, farmers often try to use chemical fertilizers in the field for crop development. But obviously the chemical fertilizers are not environment friendly. They are responsible for water, air and soil pollution and can spread cancer causing agents. Moreover, they may destroy the fertility of the soil in a long run. Scientists have developed Biofertilizers to prevent pollution and to make this world healthy for everybody in a natural way. Bio-fertilizer contains microorganisms which promote the adequate supply of nutrients to the host plants and ensure their proper development of growth and regulation in their physiology. Living microorganisms are used in the preparation of bio-fertilizers. Only those microorganisms are used which have specific functions to enhance plant growth and reproduction. There are different types of microorganisms which are used in the bio-fertilizers. Bio-fertilizer being essential components of Organic farming play vital role in maintaining long term soil fertility and sustainability.*

**Keywords:** Azospirillum, bio-fertilizer, crop growth, sustainability, VAM.

### Introduction

Organic farming has emerged as an important priority area globally in view of the growing demand for safe and healthy food and long term sustainability and concerns on environmental pollution associated with indiscriminate use of agrochemicals. Though the use of chemical inputs in agriculture is inevitable to meet the growing demand for food in world, there are opportunities in selected crops and niche areas where organic production can be encouraged to tap the domestic export market. Bio-fertilizers are being essential component of organic farming are the preparations containing live or latent cells of efficient strains of nitrogen fixing, phosphate solubilizing or cellulolytic micro-organisms used for application to seed, soil or composting areas with the objective of increasing number of such micro-organisms and accelerate those microbial processes which augment the availability of nutrients that can be easily assimilated by plants. Biofertilizers play a very significant role in improving soil fertility by fixing atmospheric nitrogen, both, in association with plant roots and without it, solubilise insoluble soil phosphates and produces plant growth substances in the soil. They are in fact being promoted to harvest the naturally available, biological system of nutrient mobilization (Venkateshwarlu, 2008). The role and importance of bio-fertilizers in sustainable crop production has been reviewed by several authors. But the progress in the field

of BF production technology remained always below satisfaction in Asia because of various constraints.

### Need of Bio-Fertilizers

Indiscriminate use of synthetic fertilizers has led to the pollution and contamination of the soil, has polluted water basins, destroyed micro-organisms and friendly insects, making the crop more prone to diseases and reduced soil fertility.

Demand is much higher than the availability. It is estimated that by 2020, to achieve the targeted production of 321 million tones of food grains, the requirement of nutrient will be 28.8 million tones, while their availability will be only 21.6 million tones being a deficit of about 7.2 million tones<sup>1</sup>.

Depleting feedstock/fossil fuels (energy crisis) and increasing cost of fertilizers. This is becoming unaffordable by small and marginal farmers, depleting soil fertility due to widening gap between nutrient removal and supplies, growing concern about environmental hazards, increasing threat to sustainable agriculture. Besides above facts, the long term use of bio-fertilizers is economical, eco-friendly, more efficient, productive and accessible to marginal and small farmers over chemical fertilizers<sup>2</sup>.

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**Gustavo Molina,Minaxi Sharma,Rachid  
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## **Recent Research Paper On Biofertilizers:**

### **Recent Advances in Biofertilizers and Biofungicides (PGPR) for Sustainable Agriculture** Patricio S.

Faylon, Rodolfo I. Ilao, M S Reddy, 2014-11-10 Global concern over the demerits of chemicals in agriculture has diverted the attention of researchers towards using the potential of PGPR in agriculture. This book contains many useful and important research papers pertaining to the use of bio fertilizers and bio fungicides for sustainable agriculture. This volume is presented in an easy to understand manner with well illustrated protocols on the production to commercialization of PGPR. The chapters on commercial potential, trade and regulatory issues among Asian countries are worthwhile additions. As such, this book will prove useful for students, researchers, teachers and entrepreneurs in the area of PGPR and its allied fields. **New and**

### **Future Developments in Microbial Biotechnology and Bioengineering** Harikesh Bahadur Singh, Anukool

Vaishnav, 2022-07-01 Sustainable Agriculture: Revisiting Green Chemicals discusses green technologies that help us to understand new green chemicals to reduce plant pathogens and induce plant growth as well as soil health. The most used green chemicals are antioxidants, osmoprotectants and phytohormones. This book brings together the most relevant information on how we can use microbial resources to develop new formulations for these types of chemicals and technologies for field application. The book offers reference material to chemical engineers, biochemists, agrochemists, industrialists, researchers and scientists working on sustainable agriculture. Highlights the latest developments in green technology in agriculture. Overviews applied aspects of different green chemicals for crop production. Identifies the importance and potential of green chemicals in manifold prospects. **Biofertilizers** Inamuddin, Mohd Imran

Ahamed, Rajender Boddula, Mashallah Rezakazemi, 2021-08-02 Great attention has been paid to reduce the use of conventional chemical fertilizers harming living beings through food chain supplements from the soil environment. Therefore, it is necessary to develop alternative sustainable fertilizers to enhance soil sustainability and agriculture productivity. Biofertilizers are the substance that contains microorganisms (bacteria, algae and fungi) living or latent cells that can enrich the soil quality with nitrogen, phosphorous, potassium, organic matter, etc. They are a cost-effective, biodegradable and renewable source of plant nutrients/supplements to improve the soil health properties. Biofertilizers emerge as an attractive alternative to chemical fertilizers and as a promising cost-effective technology for eco-friendly agriculture and a sustainable environment that holds microorganisms which enhance the soil nutrients solubility, leading to a raise in its fertility, stimulates crop growth and healthy food safety. This book provides in-depth knowledge about history and fundamentals to advances in biofertilizers, including latest reviews, challenges and future perspectives. It covers fabrication approaches and various types of biofertilizers and their applications in agriculture, environment, forestry and industrial sectors. Also, organic farming, quality control, quality assurance, food safety and case studies of biofertilizers are briefly discussed. Biofertilizers, physical properties, affecting factors, impact and industry profiles in the market are well addressed. This book is an essential guide for farmers.

agrochemists environmental engineers scientists students and faculty who would like to understand the science behind the sustainable fertilizers soil chemistry and agroecology

**Phyconanotechnology: Current Research, Challenges, and Prospects** Lakhan Kumar, Navneeta Bharadvaja, Sunil Khare, Raksha Anand, 2025-06-13 This book explores the scientific development in the field of algal based nanomaterials synthesis production methods and commercial and utilization aspects of phyconanomaterials to address a range of problems of humanity Nanomaterials have been recently explored for and employed in environmental remediation biomedical applications agriculture food industries energy sectors cosmetics biolabeling and space due to their versatility and wide range of applicability owing to their peculiar material characteristics and other attributes Their conventional synthesis approaches are replacing green methods as the latter is comparatively economical energy efficient and eco friendly Biological entities and derived materials based nanomaterials synthesis is such a green approach Using natural systems to synthesize nanomaterials does not leave behind any toxic compounds generally produced as by products when physical or chemical methods are employed Phyconanotechnology a green way of synthesizing nanomaterials can be used to overcome this issue In the proposed book algal diversity based nanomaterials synthesis and their applications will be presented to the readers

**Soil Science: Fundamentals to Recent Advances** Amitava Rakshit, S.K Singh, P.C. Abhilash, Asim Biswas, 2021-07-30 This compilation has been designed to provide a comprehensive source of theoretical and practical update for scientists working in the broad field of soil science The book explores all possible mechanisms and means to improve nutrient use efficiencies involving developing and testing of nanofertilizers developing consortia based microbial formulations for mobilization of soil nutrients and engineering of nutrient efficient crops using molecular biology and biotechnological tools This is an all inclusive collection of information about soil science This book is of interest to teachers researchers soil scientists capacity builders and policymakers Also the book serves as additional reading material for undergraduate and graduate students of soil science quantitative ecology earth sciences GIS and geodetic sciences as well as geologists geomorphologists hydrologists and landscape ecology National and international agriculture and soil scientists policy makers will also find this to be a useful read

Conference Proceedings of the Second International Conference on Recent Advances in Bioenergy Research Sachin Kumar, Rajesh K. Sani, Y. K. Yadav, 2017-11-01 This book discusses latest advances in the area of bioenergy including algal biomass biodiesel bioethanol biomethanation pyrolysis biomass gasification biomass cook stoves and integrated processes The volume comprises select proceedings of ICRABR 2016 The contents include cutting edge research vital to R thermochemical conversion processes biochemical conversion processes catalytic conversion processes electrochemical processes waste treatment to harvest energy and integrated processes It will prove a valuable resource for students researchers professionals and policymakers in the field of biofuels and bioenergy

*Agricultural Microbiology* R.P. Pareek, Navneet Pareek, 2019-03-01 This text book is written keeping in mind the contents of the syllabus of the course Agricultural Microbiology taught in BSc Ag degree program all

over the country as the syllabus is approved in Deans committee at ICAR level The book will be useful for students and the teachers teaching the course The book has five sections namely basics of microbiology which deals with fundamental principles of general microbiology Section two covers ecology of soil biota and organisms in soil liter interfaces Third section is biogeochemical cycles of plant nutrients discussing microbiological transformation of important plant nutrients and their movement in the soil constituents Fourth section relates with applied aspect of agriculturally useful microorganisms dealing with biofertilizers and biocontrol agents Fifth section discusses qualities of drinkable water and food and water borne diseases directly concerned with human hygiene A chapter on traditional and molecular techniques to study soil microorganisms and their activities in situ and laboratory is also incorporated The language of the book is simple and subject matter is discussed with help of illustration such as graphs charts tables and pictures keeping readers in mind In the end of each chapter exercise in the form of questions has been incorporated to help the student to recapitulate the contents of the chapter

**Drought and Heat Stress in Agriculture** Rachana Dubey, Kumari Shubha, Amitava Rakshit, Sanjeev Kumar, Anup Das, 2025-05-29 This edited book provides critical insights into changing climate's impact on agriculture and innovative strategies for building resilience The agricultural sector is highly dependent on climatic conditions is particularly vulnerable to the impacts of drought and heat stress It has been noticed that crop yields in Africa Asia and the Middle East are reduced by 15-35% when temperatures rise by 3-4 °C The book explores the impacts of climate change on agriculture and how farmers can adapt their practices to overcome the dual threat of drought and heat stress on cereals pulses oilseeds vegetables and other allied sectors One of the key themes of the book is the importance of smart water management in building agricultural resilience to drought and heat stress By adeptly managing water resources and nurturing soil health through practices like cover cropping and reduced tillage farmers bolster their resilience Additionally livestock management strategies are explored to combat reduced productivity and health issues due to heat stress Harnessing the power of AI assisted solutions the book showcases how cutting edge technology aids data driven decisions on crop management and irrigation This book is a vital resource for farmers researchers policymakers and those concerned about our food systems future It emphasizes the urgent need for climate smart agricultural policies and technologies offering prospects for sustainable practices and resilient food production

**Biofertilizers** Amitava Rakshit, Vijay Singh Meena, Manoj Parihar, H.B. Singh, A.K. Singh, 2021-03-24 Biofertilizers Volume One Advances in Bio inoculants provides state of the art descriptions of various approaches techniques and basic fundamentals of BI used in crop fertilization practices The book presents research within a relevant theoretical framework to improve our understanding of core issues as applied to natural resource management Authored by renowned scientists actively working on bio inoculant biofertilizer and bio stimulant sciences the book addresses the scope of inexpensive and energy neutral bio inoculant technologies and the impact regulation has on biofertilizer utilization This book is a valuable reference for agricultural environmental scientists in academic and corporate environments graduate and post

graduate students regulators and policymakers Informs researchers on how to develop innovative products and technologies that increase crop yields and quality while decreasing agricultural carbon footprints Focuses on production protocols and developments in the processing of bio inoculants bio stimulants and bio fertilizers Summarizes the biologically active compounds and examines current research areas

**Current Trends in Microbial Biotechnology for Sustainable Agriculture** Ajar Nath Yadav,Joginder Singh,Chhatarpal Singh,Neelam Yadav,2020-11-10 Microbial biotechnology is an emerging field with applications in a broad range of sectors involving food security human nutrition plant protection and overall basic research in the agricultural sciences The environment has been sustaining the burden of mankind from time immemorial and our indiscriminate use of its resources has led to the degradation of the climate loss of soil fertility and the need for sustainable strategies The major focus in the coming decades will be on achieving a green and clean environment by utilizing soil and plant associated beneficial microbial communities Plant microbe interactions include the association of microbes with plant systems epiphytic endophytic and rhizospheric The microbes associated with plant ecosystems play an important role in plant growth development and soil health Moreover soil and plant microbiomes help to promote plant growth either directly or indirectly by means of plant growth promoting mechanisms e g the release of plant growth regulators solubilization of phosphorus potassium and zinc biological nitrogen fixation or by producing siderophores ammonia HCN and other secondary metabolites These beneficial microbial communities represent a novel and promising solution for agro environmental sustainability by providing biofertilizers bioprotectants and biostimulants in addition to mitigating various types of abiotic stress in plants This book focuses on plant microbe interactions the biodiversity of soil and plant microbiomes and their role in plant growth and soil health Accordingly it will be immensely useful to readers working in the biological sciences especially microbiologists biochemists and microbial biotechnologists

**Microbiota and Biofertilizers, Vol 2** Gowhar Hamid Dar,Rouf Ahmad Bhat,Mohammad Aneesul Mehmood,Khalid Rehman Hakeem,2021-03-31 The dependence of present farming on artificial input of chemical fertilizers has caused numerous ecological tribulations associated with global warming and soil contamination Moreover there is an essential requirement for realistic agricultural practices on a comprehensive level Accordingly biofertilizers including microbes have been recommended as feasible environmentally sound solutions for agricultural practices which not only are natural and cost effective but also preserve soil environs and important biota of agricultural land In addition it enhances the nutrient quantity of soils organically Microbial biofertilizers promote plant growth by escalating proficient absorption of nutrients for the plants and by providing an excellent disease fighting mechanism Agriculture the backbone of human sustenance has been put under tremendous pressure by the ever increasing human population Although various modern agro techniques boosted agricultural production the excessive use of synthetic fertilizers pesticides and herbicides have proven extremely detrimental to agriculture as well as to the environment in which it is carried out Besides this some faulty agricultural practices like

monoculture and defective irrigation further complicate the scenario by eliminating biodiversity increasing the efflux of nutrients into the water bodies the formation of algal blooms eutrophication damaging the water quality and lowering fish stocks Biofertilizers are the organic compounds applied to crops for their sustainable growth and the sustainability of the environment as the microbiota associated with biofertilizers interact with the soil roots and seeds to enhance soil fertility Application of biofertilizers results in the increased mineral and water uptake root development vegetative growth and nitrogen fixation besides liberating growth promoting substances and minerals that help the maintenance of soil fertility They further act as antagonists and play a pivotal role in neutralising soil borne plant pathogens and thus help in the bio control of diseases Application of biofertilizers instead of synthetic fertilizers could be a promising technique to raise agricultural productivity without degrading environmental quality The present book focuses on the latest research approaches and updates from the microbiota and their applications in the agriculture industry We believe this book addresses various challenges and shed lights on the possible future of the sustainable agricultural system

*Advances in Plant Physiology (Vol. 11)* A. Hemantaranjan, 2009-01-01 The configuration of Volume 11 of the International Treatise Series has been absolutely due to praiseworthy contributions from Scientists of global eminence This programme has been undertaken with a view to reinforce the indistinguishable efforts to recognize the outcome of scrupulous research in some of the very rational and stirring areas of Environmental and Molecular Physiology of Plants In order to sustain and further advance it is committed to maintain the originality and the introduction of novel ideas ensuring that the treatise welcomes the best science done across the full extent of modern plant biology in general and plant physiology in particular Indeed within the time span of twelve years this treatise has been duly recognized through Current Book Contents and other academic periodicals in the minds of distinguished readers and has beyond doubt achieved the international status It is reiterated that in spite of handiness of quick accessibility of vast literature from internet this treatise series in the field of life sciences has been realized over and above to be like a true guide friend and philosopher continually enlightening the most hidden perceptible nerves of an individual worker which is beyond the competence of mere internet web service It is glory to record that in Volume 11 with inventive applied research attempts have been made to bring together much needed fifteen review articles by Fifty eight contributors from Brazil China Egypt France Germany India Switzerland and Tunisia duly evaluated by Consulting Editors of international stature from India U K U S A Argentina Australia France Germany Japan Spain Portugal Israel and Morocco and rationally disseminated in Seven Sections Creditably in this volume over five important reviews belong to the field of Environmental Stresses besides covering significant areas of research In genuineness the treatise is an achievement for interdisciplinary exchange of information It would be extremely a significant book and a voluminous reference material for acquiring advanced knowledge by post graduate and Ph D scholars in response to the innovative courses in Plant Physiology Plant Biochemistry Plant Molecular Biology Plant Biotechnology Environmental

Sciences Plant Pathology Microbiology Soil Science Agricultural Chemistry Agronomy Horticulture and Botany besides fulfilling needs for research teams and scientists engaged in various facets of research in Molecular Physiology and Biology of Plants in traditional and agricultural universities institutes and research laboratories throughout the world     **Recent**

**Innovations in Scientific and Commercial Approaches towards Land Restoration and Environmental**

**Sustainability** Dr. Shama Afroze Baig, Dr. Monisha Sharma, Dr. Hansa Shukla, 2025-06-26 In the face of escalating environmental challenges such as land degradation climate change and resource depletion the need for sustainable and innovative solutions has never been more urgent The book titled Recent Innovations in Scientific and Commercial Approaches Towards Land Restoration and Environmental Sustainability emerges from the collective scholarly engagement of experts researchers academicians and practitioners participating in the two day International Conference organized by Swami Shri Swaroopanand Saraswati Mahavidyalaya Hudco Bhilai Chhattisgarh This volume presents a compendium of research based book chapters that explore multifaceted strategies for land restoration and environmental sustainability The themes range from microbial and biotechnological solutions sustainable agricultural practices and waste management models to community engagement green infrastructure and the role of women in environmental stewardship The chapters provide in depth analyses case studies and models that reflect recent scientific and commercial innovations relevant to ecological resilience and socio economic development The contributions have been carefully selected and peer reviewed to ensure academic rigor and practical relevance Each chapter adheres to a standardized format allowing readers to explore the theoretical foundations methodological frameworks and applied insights presented by the authors We extend our heartfelt gratitude to all the contributors for their valuable inputs and to the organizing committee and editorial board for their unwavering commitment to knowledge dissemination We believe that this book will serve as a valuable resource for researchers policymakers environmentalists and students alike and will inspire further interdisciplinary research and collaborative efforts for a sustainable future     **Metabolomics, Proteomics and Gene Editing Approaches in**

**Biofertilizer Industry** Sukhminderjit Kaur, Vagish Dwibedi, Pramod Kumar Sahu, 2024-06-26 Biofertilizer refers to the live or latent microbial inoculants capable of enhancing plant growth through direct and indirect mechanisms This book covers strategies for harnessing the integrated technologies omics proteomics and metabolomics for the development of potential novel biofertilizers Modern techniques for enhancing the efficacy and quality of biofertilizers has been discussed in detail Increasing crop productivity poses a great challenge due to increasing global population and researchers are looking for solutions to this using sustainable approaches Biofertilizers play an imperative role in enhancing yield production in crops and this book covers detailed account of biofertilizers on a single platform It also provides guidance on sustainable ways of increasing crop production and helps in generating ideas to formulate collaboration between public and private sectors for future innovation in the field of biofertilizers This book is especially designed for the research graduates young researchers



and scholars who are directly involved in the research related activities of the biofertilizers It can also be useful to professors lecturers biotechnologists biofertilizer production specialists and other stakeholders associated with strain improvement for biofertilizer development

Algal Biorefineries and the Circular Bioeconomy Sanjeet Mehariya, Obulisamy Parthiba Karthikeyan, Shashi Kant Bhatia, 2022-04-19 Algae are mysterious and fascinating organisms that hold great potential for discovery and biotechnology Dr Thierry Tonon Department of Biology University of York Science is a beautiful gift to humanity we should not distort it A P J Abdul Kalam In this book we emphasize the importance of algal biotechnology as a sustainable platform to replace the conventional fossil based economy With this focus Volume 2 summarizes the up to date literature and knowledge and discusses the advances in algal cultivation genetic improvement wastewater treatment resource recovery commercial operation and technoeconomic analysis of algal biotechnology FEATURES Discusses in detail recent developments in algae cultivation and biomass harvesting Provides an overview of genetic engineering and algal bacteria consortia to improve productivity Presents applications of algae in the area of wastewater treatment and resource recovery Provides case studies and technoeconomic analysis to understand the algal biorefinery Shashi Kant Bhatia PhD is an Associate Professor in the Department of Biological Engineering Konkuk University Seoul South Korea Sanjeet Mehariya PhD is a Postdoctoral Researcher at the Department of Chemistry Ume University Ume Sweden Obulisamy Parthiba Karthikeyan PhD is a Research Scientist and Lecturer Adjunct in the Department of Civil and Environmental Engineering South Dakota School of Mines and Technology Rapid City South Dakota USA

*Microorganisms for Green Revolution* Deepak G. Panpatte, Yogeshvari K. Jhala, Rajababu V. Vyas, Harsha N. Shelat, 2017-12-07 This book addresses basic and applied aspects of two nexus points of microorganisms in agro ecosystems namely their functional role as bio fertilizers and bio pesticides Readers will find detailed information on all of the aspects that are required to make a microbe agriculturally beneficial A healthy balanced soil ecosystem provides a habitat for crops to grow without the need for interventions such as agro chemicals No organism in an agro ecosystem can flourish individually which is why research on the interaction of microorganisms with higher forms of life has increasingly gained momentum in the last 10 15 years In fact most of plants life processes only become possible through interactions with microorganisms Using these little helpers as a biological alternative to agro chemicals is a highly contemporary field of research The information presented here is based on the authors extensive experience in the subject area gathered in the course of their careers in the field of agricultural microbiology The book offers a valuable resource for all readers who are actively involved in research on agriculturally beneficial microorganisms In addition it will help prepare readers for the future challenges that climate change will pose for agriculture and will help to bridge the current gaps between different scientific communities

Cassava Research and Development in Asia: Exploring New Opportunities for an Ancient Crop. , **Biotechnology of Biofertilizers** Sadasivam Kannaiyan, 2002-11-30 Table of contents Environmental Sustainability and Biotechnology: Opportunities and Challenges

Naveen Kumar Arora,Piyush Pandey,Jitendra Mishra,2025-08-18 This book assembles a global perspective on the challenges and opportunities to achieve environmental sustainability through biotechnology The book highlights agenda for utilizing scientific knowledge including the use of beneficial microbes and biotechnological approaches for combating key global issues related to environmental sustainability Additionally to evolve adaptive processes and mitigation approaches certain novel insights on resilience mechanisms sustainability principles and bio inputs are discussed The book also showcases advanced technologies in the area of biotechnology including use of microbes in biodegradation bioremediation sustainable agriculture and food security This book is valuable for environmentalists ecologists policy makers and industrial entrepreneurs The book is also a reference source for researchers undergraduate and graduate students of the environment science and biotechnology fields      Microbial Bioprocessing of Agri-food Wastes Gustavo Molina,Minaxi Sharma,Rachid Benhida,Vijai Kumar Gupta,Ramesh Chander Kuhad,2023-04-28 Microbes are widely used in large scale industrial processes due to their versatility easy growing cultivation kinetic potential and the ability to generate metabolites with a wide range of potential applications to various commercial sectors such as the food pharmaceutical and cosmetic industries in addition to the potential for agriculture biomedical and several others Among the metabolites of greatest commercial interest and many obtained on an industrial scale the wide range of enzymes biofuels organic acids amino acids vitamins biopolymers and many other classes of metabolites This book is intended for Bioengineers Biologist Biochemist Biotechnologists microbiologist food technologist enzymologist and related Professionals researchers Explores recent advances in the valorization of agri food waste Provides technical concepts on the production of various bio products of commercial interest Discusses the main process conditions to overcome the difficulties of using waste as alternative raw materials Introduces technical economic details on the advantages and disadvantages of exploring the waste recovery chain Explores the main technological advances in the recovery of residues in functional products

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