

# Azolla Biofertilizer For Sustainable Rice Production 1st Edition Pdf

J.K. Ladha,T. George,C. Bohlool

**Practical Application of Azolla for Rice Production** W.S. Silver,E.C. Schröder,2012-12-06 The production of rice has increased considerably in recent years due to the release of improved varieties and the adoption of better fertilization practices. Nevertheless, the production and use of inorganic N fertilizer involves costly investments in terms of energy and transport, the need for complex manufacturing plants, as well as the potential for environmental pollution. The use of agricultural systems that include dinitrogen fixing organisms appears to be an economically sound cultural practice. In the particular case of rice, biological nitrogen fixation by Azolla, blue-green algae (BGA), and heterotrophic microorganisms has long been recognized, in southeast Asia, as a fertilizer for rice culture. The Azolla-Anabaena association has the unique property of being able to retain a significant amount of nitrogenase activity in the presence of combined nitrogen, making the system compatible with inorganic nitrogen fertilization. Researchers working with Azolla (N fixation) are dispersed in 2 countries of southeast Asia, Africa, Europe and Latin America, making it difficult to share ideas, concepts and research results on a more personal basis. Considering the potential positive impact of growing rice in association with Azolla, and the lack, to date, of an international gathering of scientists dedicated to Azolla research, the First International Workshop on Practical Applications of Azolla for Rice Production was organized by the University of Puerto Rico-Mayaguez Campus.

**Azolla Utilization** ,1987

Biological Nitrogen Fixation Associated with Rice Production Mustafizur Rahman,Azit Kumar Podder,Charles van Hove,Z.N. Tahmida Begum,Thierry Heulin,Anton Hartmann,2013-04-09 Biological nitrogen fixation (BNF) has become important in rice farming systems because this process diminishes the need for expensive chemical fertilizers which have been associated with numerous health and environmental problems. The extensive exploitation of BNF would provide economic benefits to small farmers, avoiding all malign influences of chemical fertilizers. Meanwhile, advances in biotechnology have brought rice genetics to the threshold of new opportunities for increasing rice production. This volume focuses, in six different sessions, on the role of BNF in the improvement of rice production in the light of the current state of the art of BNF technology transfer and diffusion. New ideas on BNF technology in research, extension information and

inoculant technology are also included, together with the socio-economic impacts of using BNF in rice farm systems.

*Principles and Practices of Rice Production* Surajit K. De Datta, 1987

**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 a raise in its fertility, stimulates crop growth and healthy food safety. This book provides in-depth knowledge about history and fundamentals to advances 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.

*Biological Nitrogen Fixation Associated with Rice Production* Sisir K. Dutta, Charles Sloger, 1991

*Biofertilizers for Sustainable Agriculture and Environment* Bhoopander Giri, Ram Prasad, Qiang-Sheng Wu, Ajit Varma, 2019-08-09 This book provides a comprehensive overview of the benefits of biofertilizers as an alternative to chemical fertilizers and pesticides. Agricultural production has increased massively over the last century due to increased use of chemical fertilizers and pesticides, but these gains have come at a price. The chemicals are not only expensive; they also reduce microbial activity in agricultural soils and accumulate in the food chain, with potentially harmful effects for humans. Accordingly, it is high time to explore alternatives and to find solutions to overcome our increasing dependence on these chemicals. Biofertilizers, which consist of plant remains, organic matter and microorganisms, might offer an alternative. They are natural, organic, biodegradable, eco-friendly and cost-effective. Further, the microbes present in the biofertilizers are important, because they produce nutrients required for plant growth (e.g., nitrogen, phosphorus, potassium), as well as substances essential for plant growth and development (e.g., auxins and cytokinins). Biofertilizers also improve the physical properties, fertility and productivity of soil, reducing the need for chemical fertilizers while maintaining high crop yield. This makes biofertilizers a powerful tool for sustainable agriculture and a sustainable environment. The book covers the latest

research on biofertilizers, ranging from beneficial fungal, bacterial and algal inoculants; to microbes for bioremediation, wastewater treatment; and recycling of biodegradable municipal, agricultural and industrial waste; as well as biocontrol agents and bio-pesticides. As such, it offers a valuable resource for researchers, academics and students in the broad fields of microbiology and agriculture.

**Handbook of Microbial Biofertilizers** Mahendra Rai,2006-02-28 Sharply focused, up-to-date information on microbial biofertilizers—including emerging options such as Piriformospora indica and Matsutake The Handbook of Microbial Biofertilizers provides in-depth coverage of all major microbial biofertilizers (rhizobia, arbuscular mycorrhizal fungi, and cyanobacteriaas well as new and emerging growth promoters (endophytes). It examines the role of microbes in growth promotion, bioprotectors, and bioremediators, and presents protocols and practical strategies for using microbes in sustainable agriculture. An abundance of helpful charts, tables, and figures make complex information easy to access and understand. In this first-of-its-kind volume, contributors from 11 countries and several continents address important issues surrounding microbial biofertilizers, including: the rhizobium-host-arbuscular mycorrhizal tripartite relationship mycorrhiza as a disease suppresser and stress reducer mycorrhiza helping bacteria the impact of functional groups of soil microorganisms on nutrient turnover PBPRs as biofertilizers and biopesticides the potential of wild-legume rhizobia for use as a biofertilizers the expanding role of blue-green algae in sustainable agriculture the role of microbial fertilizers in sustainable plant production new and emerging endophytes the commercial potential of biofertilizers In this young century, the use of biofertilizers is already growing rapidly. It has been recognized that these environment-friendly bioprotectors, growth boosters, and remediators are essential for soil/plant health. The Handbook of Microbial Biofertilizers is designed to fit the expanding information needs of current and future biotechnologists, microbiologists, botanists, agronomists, environmentalists, and others whose work involves sustained agriculture.

**Sustainable Crop Production** Mirza Hasanuzzaman,Masayuki Fujita,Marcelo Carvalho Minhoto Teixeira Filho,Thiago Assis Rodrigues Nogueira,Fernando Shintate Galindo,2020-06-17 This book includes twenty-one comprehensive chapters addressing various soil and crop management issues, including modern techniques in enhancing crop production in the era of climate change. There are a few case studies and experimental evidence about these production systems in specific locations. Particular focus is provided on the state-of-the-art of biotechnology, nanotechnology, and precision agriculture, as well as many other recent approaches in ensuring sustainable crop production. This book is useful for undergraduate and graduate students, teachers, and researchers, particularly in the fields of crop science, soil science, and agronomy.

**Nitrogen Fixation with Non-Legumes** K.A. Malik,M. Sajjad Mirza,J.K. Ladha,2012-10-13 Diazotrophic bacteria convert atmospheric nitrogen to plant-useable form and this input of nitrogen through biological fixation is of great agronomic importance. The contributions presented in this volume relate to free-living nitrogen fixers and the diazotrophs associated

with plants. Symbiotic association of Frankia with non-legumes and cyanobacterial associations are also discussed. Research topics covered in this volume include the biochemistry and genetics of diazotrophs, recent developments in improvement of plant-microbe interactions and their molecular basis, the use of molecular probes in taxonomy and ecology of diazotrophs and reports on field applications, agronomic importance and improvement in methodologies for assessing their contribution to plants. This book provides valuable information not only for researchers working in the field of biological nitrogen fixation but also for biochemistry, molecular biologists, microbiologists and agronomists.

*Increasing Rice Production in Bangladesh — Challenges and Strategies* ,

**Integrated Nutrient Management (INM) in a Sustainable Rice-Wheat Cropping System** Anil Mahajan,R. D.

Gupta,2009-05-07 Agriculture is the main occupation in India and about 75% of its population depends directly or indirectly on agriculture for their livelihood. It is the dominant sector that contributes 18% of the gross domestic product. Thus, agriculture is the foundation of the Indian economy. The maximum share of Indian exports is also from the agriculture sector. As the population of the country is increasing tremendously, approximately at the rate of 19 million every year over the existing population of more than 1 billion (approximately 1.18 billion), the food grain production must necessarily be increased. This can be done by increasing crop production to match the population growth rate of 2.2% per annum, which is expected to stabilize at 1.53 billion around 2050. There is no doubt that the Green Revolution in India during the late 1960s brought self-sufficiency in food grain production, mainly through the increase in rice and wheat crop yields – the two main crops of the country which play an important role from food security point of view. However, the excessive use of fertilizers and pesticides, and the neglect of organic manures for these crops, has resulted in the deterioration of physical, chemical and biological health of the rice and wheat-growing soils. Owing to the deterioration of the health of these soils, the productivity of the rice-wheat cropping system has now either got reduced or in some places has become constant for the last decade.

Herbicides in Asian Rice Rosamond Naylor,1996 Overview; Impacts of herbicides; Integrated weed management; Use of herbicides in asian rice.

Climate Change, Hazards and Adaptation Options Walter Leal Filho,Gustavo J. Nagy,Marco Borga,Pastor David Chávez Muñoz,Artur Magnuszewski,2020-02-14 This book addresses the issue of climate change risks and hazards holistically. Climate change adaptation aims at managing climate risks and hazards to an acceptable level, taking advantage of any positive opportunities that may arise. At the same time, developing suitable responses to hazards for communities and users of climate services is important in ensuring the success of adaptation measures. But despite this, knowledge about adaptation options, including possible actions that can be implemented to improve adaptation and reduce the impacts of climate change hazards, is still limited. Addressing this need, the book presents studies and research findings and offers a

catalogue of potential adaptation options that can be explored. It also includes case studies providing illustrative and inspiring examples of how we can adapt to a changing climate.

**Azolla As A Green Manure** Thomas A Lumpkin, Donald L Plucknett, 1982-10-17 History. Botany and ecology. Physiology. Nursery culture and multiplication. Field Cultivation. Pests and pest control. Use in labor-intensive farming systems. Potential mechanization of azzola cultivation in rice fields. Other uses. Potential for the future.

*Biological Nitrogen Fixation for Sustainable Agriculture* J.K. Ladha, T. George, C. Bohlool, 2013-03-09 Chemical fertilizers have had a significant impact on food production in the recent past, and are today an indispensable part of modern agriculture. On the other hand, the oil crisis of the 1970s and the current Middle East problems are constant reminders of the vulnerability of our fossil fuel dependent agriculture. There are vast areas of the developing world where N fertilizers are neither available nor affordable and, in most of these countries, balance of payment problems have resulted in the removal of N fertilizer subsidies. The external costs of environmental degradation and human health far exceed economic concerns. Input efficiency of N fertilizer is one of the lowest and, in turn, contributes substantially to environmental pollution. Nitrate in ground and surface waters and the threat to the stability of the ozone layer from gaseous oxides of nitrogen are major health and environmental concerns. The removal of large quantities of crop produce from the land also depletes soil of its native N reserves. Another concern is the decline in crop yields under continuous use of N fertilizers. These economic, environmental and production considerations dictate that biological alternatives which can augment, and in some cases replace, N fertilizers must be exploited. Long-term sustainability of agricultural systems must rely on the use and effective management of internal resources. The process of biological nitrogen fixation offers an economically attractive and ecologically sound means of reducing external nitrogen input and improving the quality and quantity of internal resources. In this book, we outline sustainability issues that dictate an increased use of biological nitrogen fixation and the constraints on its optimal use in agriculture.

**Microbiology of Tropical Soils and Plant Productivity** Y.R. Dommergues, G.H. Diem, 2012-12-06 It is an established fact that we must continually increase and improve agricultural production if we are to meet even the minimum requirements of a growing population for food, shelter, and fuel. In recent years, the introduction of new plant varieties and the extensive use of fertilizers have effectively increased crop yields, but intensifying agricultural methods has often led to depleting soil fertility. Two examples of the harmful consequences of intensive farming practices are the loss of up to 2.5 cm of topsoil every 15 years in the United States through erosion and the alarming rise in environmental pollution through widespread use of pesticides. Countless other processes affecting the activity of soil microflora and the interactions between microorganisms and plants may pose an equal danger to soil equilibrium, but their potential hazards are often overlooked because of an insufficient understanding of soil microbiology on the part of scientists. In the first published study of its kind,

the authors of this book have attempted to address major aspects of the microbial activity of soil in the tropics. Tropical conditions serve as an ideal context for a discussion of soil microbiology, since biological processes in the soil are particularly active in tropical environments in comparison to other settings and in relation to physical and chemical processes.

**Rice Management Biotechnology** Sadasivam Kannaiyan,1995 Contributed articles.

*Cyanobacteria in Symbiosis* A.N. Rai,B. Bergman,Ulla Rasmussen,2007-05-08 Cyanobacterial symbioses are no longer regarded as mere oddities but as important components of the biosphere, occurring both in terrestrial and aquatic habitats worldwide. It is becoming apparent that they can enter into symbiosis with a wider variety of organisms than hitherto known, and there are many more still to be discovered, particularly in marine environments. The chapters cover cyanobacterial symbioses with plants (algae, bryophytes, Azolla, cycads, Gunnera), cyanobacterial symbioses in marine environments, lichens, Nostoc-Geosiphon (a fungus closely related to arbuscular mycorrhiza fungi) symbiosis, and artificial associations of cyanobacteria with economically important plants. In addition, cyanobiont diversity, sensing-signalling, and evolutionary aspects of the symbiosis are dealt with. Renowned experts actively involved in research on cyanobacterial symbioses deal with ecological, physiological, biochemical, molecular, and applied aspects of all known cyanobacterial symbioses. This volume on cyanobacteria in symbiosis complements the two earlier volumes on cyanobacteria published by Kluwer (*Molecular Biology of Cyanobacteria*, edited by D.A. Bryant and *Ecology of Cyanobacteria*, edited by B.A. Whitton and M. Potts). Together, the three volumes provide the most comprehensive treatment of cyanobacterial literature as a whole. The book will serve as a valuable reference work and text for teaching and research in the field of plant-microbe interactions and nitrogen fixation.

*Impact of Pesticides on Farmer Health and the Rice Environment* Prabhu L. Pingali,Pierre A. Roger,1995-09-30 The book covers the various aspects of the use of pesticides, their behavior, degradation, and impacts in wetland ricefields, and presents the results of surveys conducted in the Philippines and Thailand. It includes both bibliographic reviews and selected aspects of the experimental results of a research project on pesticide impacts in wetland ricefields. The first phase of the 'Pesticide Impact' project was developed in the Philippines from 1989 to 1991. It was a multidisciplinary/collaborative approach involving scientists from IRRI, NRI (England), ORSTOM (France), UPLB (Philippines) who studied the effects of pesticides on the environment and on farmers' health, and the economical aspects of their use.

**Decoding Azolla Biofertilizer For Sustainable Rice Production 1st Edition Pdf:** Revealing the Captivating Potential of Verbal Expression

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