



Viliana Vasileva
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Nodulation and N assimilation in legumes under elements of technology

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Nodulation And N Assimilation In Legumes Under Elements Of Technology

International Rice Research Institute



Nodulation And N Assimilation In Legumes Under Elements Of Technology:

Nodulation and N Assimilation in Legumes Under Elements of Technology Viliana Vasileva, Anna Ilieva, 2012-02
Nodulation and nitrate assimilation in some legumes under the influence of elements of cultivation technology were tested in field and pot experiments. Presowing treatment of seeds with insecticides was studied in soybean, spring forage pea, spring vetch and lucerne. It is an efficient and ecological means of plant protection from pests. Mineral nitrogen fertilization and manure were studied in lucerne. The optimal doses of fertilization for growing of lucerne in water deficiency stress conditions were found. The application of manure stimulates development of drought stress tolerance in lucerne. These investigations demonstrated efficiency, agricultural and environmental importance of nodulation.

Microbial Biostimulants for Sustainable Agriculture and Environmental Bioremediation Inamuddin, Charles Oluwaseun Adetunji, Mohd Imran Ahamed, Tariq Altalhi, 2022-06-29
Today the agriculture industry is confronted with simultaneous issues of how to fully embrace mass production of safer food in terms of both quality and quantity. Most industries are concerned with avoiding significant levels of soil pollution and environmental threats as a result of the excessive and harmful use of synthetic products on crops. Therefore, there is a need to adopt sustainable technological innovations that can ensure the sustainability of agricultural production systems. **Microbial Biostimulants for Sustainable Agriculture and Environmental Bioremediation** discusses the benefits, challenges, and practical applications of eco-friendly biotechnological techniques using biostimulants derived from beneficial microorganisms. The chapters cover the use of these organisms to increase crop production, enhance soil fertility, and maintain soil health; create crop and plant tolerance to different abiotic stressors; release required nutrients to the soil; increase resistance to plant pathogens and pests; improve nutrient use efficiency of crops; and rejuvenate polluted environments. **FEATURES** Explores the physiological, morpho-anatomical, and biochemical molecular plant rejoiners involved in stimulating crop productivity. Provides information on the physiological, cellular, and molecular modes of action underlying microbial biostimulant interfaces. Summarizes methods and approaches for executing microbial stimulant technology. Outlines numerous environmental management and remediation strategies. This book is an ideal resource for researchers, engineers, and academics working in soil science, crop science, water remediation, microbiology, and biotechnology.

Mineral Solubilizing Microorganisms (MSM) and Their Applications in Nutrient Bioavailability, Bioweathering and Bioremediation, vol III Adnan Mustafa, Maqshoof Ahmad, Muhammad Zahid Mumtaz, 2025-09-23
Minerals solubilization results from the dissolution of rocks and mineral substrates by microbial mechanical and chemical processes. The application of microorganisms in biomining is a biotechnological approach that involves extracting and recovering metals from ores. Microorganisms interact with minerals to colonize and exploit habitats and demonstrate the capacity to scavenge critical elements with low bioavailability such as iron and phosphorus. There is an ongoing need to improve soil fertility and crop production, particularly in dry places, to remediate toxic soils and clean stone artworks and structures. A complete

understanding of microorganisms mediated mineral weathering processes may provide a significant opportunity for researchers to develop novel solutions to overcome challenges in agriculture the environment and industry

Technical Note ,1918 Handbook of New Technologies for Genetic Improvement of Legumes P. B. Kirti,2008-05-13 A comprehensive and groundbreaking collection of ideas for plant improvement Most of the world s supply of legumes is cultivated under adverse conditions that make this commercially important crop susceptible to the vagaries of nature and damaging stresses Genetic manipulation has become a proven way for cultivators to battle these pro *Soybean Production Technology* Krishna Pratap Singh,N. K. Singh,Aravind T,2025-02-17 This contributed volume offers a comprehensive overview of the physiology production and processing of soybean focusing on the latest advancements in soybean production technology It covers recent innovations in the field providing essential information on geographic distribution uses physiology crop improvement and processing of soybean Soybean is a globally significant oilseed and legume crop vital in meeting the rising global demand for vegetable oil and protein Updated knowledge on key topics related to soybean production is crucial for adopting sustainable crop production strategies This includes integrating indigenous knowledge with the latest cost effective and efficient technological interventions The book is of particular interest to academicians professionals and policymakers involved in soybean research and development It also serves as a valuable reference for students scientists industrialists and farmers working on various aspects of soybean

Impacts of Technology on U.S. Cropland and Rangeland Productivity ,1982 *The Model Legume Medicago truncatula, 2 Volume Set* Frans J. de Bruijn,2020-01-29 Fully covers the biology biochemistry genetics and genomics of Medicago truncatula Model plant species are valuable not only because they lead to discoveries in basic biology but also because they provide resources that facilitate translational biology to improve crops of economic importance Plant scientists are drawn to models because of their ease of manipulation simple genome organization rapid life cycles and the availability of multiple genetic and genomic tools This reference provides comprehensive coverage of the Model Legume Medicago truncatula It features review chapters as well as research chapters describing experiments carried out by the authors with clear materials and methods Most of the chapters utilize advanced molecular techniques and biochemical analyses to approach a variety of aspects of the Model The Model Legume Medicago truncatula starts with an examination of M truncatula plant development biosynthesis of natural products stress and M truncatula and the M truncatula Sinorhizobium meliloti symbiosis Symbiosis of Medicago truncatula with arbuscular mycorrhiza comes next followed by chapters on the common symbiotic signaling pathway CSSP or SYM and infection events in the Rhizobium legume symbiosis Other sections look at hormones and the rhizobial and mycorrhizal symbioses autoregulation of nodule numbers AON in M truncatula Medicago truncatula databases and computer programs and more Contains reviews original research chapters and methods Covers most aspects of the M truncatula Model System including basic biology biochemistry genetics and genomics of this system Offers molecular techniques and advanced biochemical

analyses for approaching a variety of aspects of the Model Legume *Medicago truncatula* Includes introductions by the editor to each section presenting the summary of selected chapters in the section Features an extensive index to facilitate the search for key terms The Model Legume *Medicago truncatula* is an excellent book for researchers and upper level graduate students in microbial ecology environmental microbiology plant genetics and biochemistry It will also benefit legume biologists plant molecular biologists agrobiologists plant breeders bioinformaticians and evolutionary biologists

Impacts of Technology on U.S. Cropland and Rangeland Productivity August 1982 , Recent advances of research in antinutritional factors in legume seeds and oilseeds M. Muzquiz,G.D. Hill,C. Burbano,C. Cuadrado,M.M. Pedrosa,2023-08-28

This series of meetings bring together experts working in this field of Science from throughout the world A major feature of each conference session is an invited review which outlines the advances that have been made in a particular area since the last meeting A major factor that was considered at this meeting was the likely impact of plant genetic modification on the nutritional quality of their seeds for human and animal feeding As an example already a number of legume species and rapeseed have been modified to improve the sulphur amino acid content of their seed and thus their protein quality Besides the major grain legume species and rapeseed that had been discussed at previous meetings in this series number of crop products as potential protein sources for animal feeding were considered for the first time These included cottonseed meal linseed meal and sunflower seed meal The potential of some new exotic crops from Mexico was also covered including Mexican species of the genus *Lupinus* and a Mexican plant from the same family as castor bean which has a very high oil content but is usually toxic Work from Cuba compared the nutritional characteristics of soybean with a range of tropical grain legume species which have received little previous attention A major change at this meeting was the greater consideration of the effects both positive and negative of the consumption of these seeds for human nutrition A major review on the development of allergenicity to legume seed in humans is included There was also consideration of the potential role of antinutritional factors in reducing the growth of various types of tumour cells The presented papers also suggest that the consumption of legume seed in the diet can potentially reduce serum cholesterol levels Overall from the 5 conference sessions there are 52 papers Of these 7 are major invited reviews on the current state of research in this important area for human and animal feeding

Sustainable Agriculture Green Manure in Rice Farming , Biological Nitrogen Fixation Technology for Tropical Agriculture Peter H. Graham,Susan C. Harris,1982

Keynote addresses Plant factors affecting N₂ fixation Technology for inoculant production Environmental factors affecting symbiotic n₂ fixation Inoculation trials N₂ fixation in grain legumes N₂ fixation in pasture legume N₂ fixation in trees Associative n₂ fixation The azolla ananaena association Critique of methodologies The nitrogen relationships of maize bean associations Assessing the nitrogen contribution of cowpea *Vigna unguiculata* in monoculture and intercropped Nitrogen fixation by groundnut *Arachis hypogaea* in intercropped and rotational systems Effect of cowpeas in cereal rotations in conditions in Upper volta Residual effects of

pigeopea Cajanus cajan Atechology assessment of biological nitrogen fixation Economic analysis of biological nitrogen fixation Research and development for biological nitrogen fixation in India The brazilian program in biological nitrogen fixation Internationally sponsored development of biological nitrogen fixation technology Research on biological nitrogen fixation in the international agricultural research centers **Plant Microbiome: Interactions, Mechanisms of Action, and Applications** Alok Kumar Srivastava, Prem Lal Kashyap, George Newcombe, Gustavo Santoyo, 2021-08-24 **Green Manure in Rice Farming** International Rice Research Institute, 1988 Physiology of Soybean Plant P Basuchaudhuri, 2020-11-01 The book provides in depth knowledge on the physiology of soybean It is written lucidly systematically and in depth The book provides recent information and findings explained with illustrations to express the ideas and concepts vividly to university students and researchers and provides a better understanding of the improvement of the productivity of soybean to cope with the future demand It describes the physiology of growth development flowering pod development and seed yield as well as C O N and Oil metabolisms their hormonal regulations under normal and stress environmental conditions Molecular approaches are also described Bioresources Technology for Sustainable Agriculture Sadasivam Kannaiyan, 1999 With reference to India contributed articles **Nitrogen fixation research progress** H.J. Evans, P.J. Bottomley, William E. Newton, 2012-12-06 This Symposium held August 4 10 1985 on the campus of Oregon State University in Corvallis is the sixth of a series of international symposia concerned with broad aspects of the fixation of nitrogen gas by biological and chemical means The first symposium of this series was held in Pullman Washington 1974 the second in Salamanca Spain 1976 the third in Madison Wisconsin 1978 the fourth in Canberra Australia 1980 and the fifth in Noordwij erhout The Netherlands 1983 Prior to the organization of these symposia small groups of usually no more than 10 or 12 of the now old guard in the field met in some obscure places including Butternut Lake Wisconsin Sanabel Island Florida and Camp Sage hen in California to discuss developments in the field Concern about an energy crisis in the nineteen seventies served as an impetus for the organization of workshops and preparatiol of publications urging government agencies to provide funds for the support of several neglected areas in the field including the genetics of nitrogen fixing organisms and the biology of Frankia In looking back it becomes apparent that there have been drastic changes in the extent of research support in the field and in the contents of the programs of the continuing series of symposia *New Technologies for Energy Transition Based on Sustainable Development Goals* Kaviyarasu Kasinathan, Rasiah Ladchumananandasivam, S. Beer Mohamed, 2024-08-02 This book describes numerous issues and brings an improved understanding of a key agenda item for the sustainable development goals SDGs The SDGs represent an urgent call for action by all countries developed and developing working jointly within the global community A few of the industries it supports include food processing energy biomedical science space research drug delivery and biosensors This book highlights multidisciplinary solutions for protecting the environment while ensuring the future of our planet The book mainly targets undergraduates postgraduates

and doctoral students who are working in materials science and researchers across the world working in interdisciplinary research for climate change for sustainable growth Microbial Biotechnology in Horticulture, Vol. 1 R C Ray,2006-01-05
The application of microbial biotechnology to horticulture is of great importance because it has the potential to increase productivity to enhance quality and shelf life of the produce and to develop novel techniques in food processing and for conversion of horticultural wastes into renewal energy sources In addition a wide array of scientific **Abstracts of Funded Research** National Research Initiative Competitive Grants Program (United States. Cooperative State Research Service),1996

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Table of Contents Nodulation And N Assimilation In Legumes Under Elements Of Technology

1. Understanding the eBook Nodulation And N Assimilation In Legumes Under Elements Of Technology
 - The Rise of Digital Reading Nodulation And N Assimilation In Legumes Under Elements Of Technology
 - Advantages of eBooks Over Traditional Books
2. Identifying Nodulation And N Assimilation In Legumes Under Elements Of Technology
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Nodulation And N Assimilation In Legumes Under Elements Of Technology
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nodulation And N Assimilation In Legumes Under Elements Of Technology
 - Personalized Recommendations
 - Nodulation And N Assimilation In Legumes Under Elements Of Technology User Reviews and Ratings
 - Nodulation And N Assimilation In Legumes Under Elements Of Technology and Bestseller Lists

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 - Nodulation And N Assimilation In Legumes Under Elements Of Technology Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
 - Nodulation And N Assimilation In Legumes Under Elements Of Technology Compatibility with Devices
 - Nodulation And N Assimilation In Legumes Under Elements Of Technology Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nodulation And N Assimilation In Legumes Under Elements Of Technology
 - Highlighting and Note-Taking Nodulation And N Assimilation In Legumes Under Elements Of Technology
 - Interactive Elements Nodulation And N Assimilation In Legumes Under Elements Of Technology
8. Staying Engaged with Nodulation And N Assimilation In Legumes Under Elements Of Technology
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nodulation And N Assimilation In Legumes Under Elements Of Technology
9. Balancing eBooks and Physical Books Nodulation And N Assimilation In Legumes Under Elements Of Technology
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nodulation And N Assimilation In Legumes Under Elements Of Technology
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Nodulation And N Assimilation In Legumes Under Elements Of Technology
 - Setting Reading Goals Nodulation And N Assimilation In Legumes Under Elements Of Technology
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Nodulation And N Assimilation In Legumes Under Elements Of Technology
 - Fact-Checking eBook Content of Nodulation And N Assimilation In Legumes Under Elements Of Technology
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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