

DEVELOPMENTS IN PLANT AND SOIL SCIENCES

Nitrogen Fixation by Legumes in Mediterranean Agriculture

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Recent Developments In Nitrogen Fixation

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Recent Developments In Nitrogen Fixation:

Current Developments in Biological Nitrogen Fixation N. S. Subba Rao, 1984 This volume discusses the most recent advances in biological nitrogen fixation with chapters written by experts on the ecology physiology biochemistry and genetics of biological nitrogen fixation

Biological Nitrogen Fixation Nanjappa Shamanna Subba Rao, 1988

Recent Developments in Nitrogen Fixation; Proceedings J.R. Postgate, 1976 International Symposia...September, C. Rodriguez-Barrueco, 1977

Frontiers on Recent Developments in Plant Science: Volume 1 Aakash Goyal, Priti Maheshwari, 2012 Frontiers on Recent Developments in Plant Science is an edited peer reviewed volume comprised of a collection of individual chapters from leading research groups across different continents Due to its multidisciplinary nature the combined experiences a

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 Noordwijerhout 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 Sanibel 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 Trends in International Librarianship P. A. Mohanrajan, 1984

Recent Developments in Oxygen Minimum Zones Biogeochemistry Sudheesh Valliyodan, Syed Wajih Ahmad Naqvi, Gireesh Kumar T. R., Annie Bourbonnais, Mark A. Altabet, Amal Jayakumar, 2023-12-18

Recent Advances in Symbiosis Research: Integrative Approaches M. Pilar Francino, Mónica Medina, 2017-02-02 Traditionally symbiosis research has been undertaken by researchers working independently of one another and often focused on a few cases of bipartite host symbiont interactions New model systems are emerging that will enable us to fill fundamental gaps in symbiosis research and theory focusing on a broad range of symbiotic interactions and including a variety of multicellular hosts and their complex microbial communities In this Research Topic we invited researchers to contribute their work on diverse symbiotic networks since there are a large variety of symbioses with major roles in the proper functioning of terrestrial or aquatic ecosystems and we wished the Topic to provide a venue for communicating findings across diverse taxonomic groups A synthesis of recent investigations in symbiosis can impact areas such as agriculture where a basic understanding of plant microbe symbiosis will

provide foundational information on the increasingly important issue of nitrogen fixation climate change where anthropogenic factors are threatening the survival of marine symbiotic ecosystems such as coral reefs animal and human health where unbalances in host microbiomes are being increasingly associated with a wide range of diseases and biotechnology where process optimization can be achieved through optimization of symbiotic partnerships Overall our vision was to produce a volume of works that will help define general principles of symbiosis within a new conceptual framework in the road to finally establish symbiology as an overdue central discipline of biological science

Management of Biological Nitrogen Fixation for the Development of More Productive and Sustainable Agricultural Systems Ladha, 2013-03-09 Table 1 Global allocation of arable land between different commodities Globally cereal cropping dominates cultivated land Commodities Proportion of land area use around 50% of total area Table 1 The remaining arable land is used for production of oilseed fibre or food and cash crops In addition vast areas are Cereals maintained under temporary or permanent pasture for Wheat 16 forage production 2 3 fold greater than the total area Rice 10 under cultivation and permanent crop Table 1 Fig Maize 9 1 All cultivated crops except for legumes pulses All other cereals 13 and legume oil seeds require the soil to provide relatively large amounts of nitrogen N It is necessary for the three most important cereals wheat Triticum Legumes aestivum rice Oryza sativa and maize Zea mays Legume pulses 5 to take up 20 to 40 kg soil N ha over a period of 3 Legume oilseeds 6 to 5 months to satisfy the N requirements of the seed and supporting vegetative structure for each tonne of Total II grain produced e g Fig 2 Myers 1988 Productive pastures on the other hand may assimilate 100 Other crops 1 kg N ha each annum of which 50 to 90% will be Other oilseeds 6 consumed by livestock in intensively grazed systems Beverages Tobacco 7 Ledgard 1991 Thomas 1995

Plant-Microbe Interaction - Recent Advances in Molecular and Biochemical Approaches Prashant Swapnil, Mukesh Meena, Harish, Avinash Marwal, Selvakumar Vijayalakshmi, Andleeb Zehra, 2023-04-17 Plant Microbe Interaction Recent Advances in Molecular and Biochemical Approaches Agricultural Aspects of Microbiome Leading to Plant Defence Volume Two continues the work of Volume One covering the role of these plant microbes and their interaction between plants and microbes These beneficial microbes such as bacteria and fungi are also known as plant growth promoting rhizobacteria PGPR through a biochemical reaction that may improve induced systemic resistance in the plant host via indirectly against phytopathogens or directly the solubilization of mineral nutrients by producing phytohormones and specific enzymes such as 1 aminocyclopropane 1 carboxylate deaminase The book covers biochemical processes such as physiological metabolic etc of plant and microbe interactions the biochemistry of biological systems the interaction of biological systems above ground or within the rhizosphere and the history of growth promoting microbiomes their roles in phytoremediation efficiency physiological and biochemical studies chemical communication and signaling mechanisms Covers agricultural aspects in which the biochemistry in between plants and microbes helps us understand interactions in the rhizosphere Helps readers understand the molecular and biochemical

approaches of plant microbe interactions Enables an understanding of plant microbe interactions which will help to improve crop production Recent Advances in Biological Nitrogen Fixation Nanjappa Shamanna Subba Rao,1980 **Current Developments in Biotechnology and Bioengineering** Joginder Singh Panwar,Ashok Pandey,Simranjeet Singh,Vinod Kumar Garg,Praveen C. Ramamurthy,2023-03-09 Pesticides Human Health Environmental Impacts and Management considers microbial degradation and environmental management of pesticides covers microbial options as an alternative to chemical pesticides explores plant microbe interactions for reduced applications of pesticides in the agricultural fields discusses the enhancement of microbial pesticides degradation explains function of engineered microorganisms for effective pesticide degradation describes potential indigenous effective microbes for effective pesticide degradation processes and presents research on microbes for sustainable agricultural and environmental practices Provides the latest developments and progress on pesticide management through sustainable practices Describes the adverse effects of pesticides on human health and its precautionary control measures through biological agents Introduces the aspects and advances of biological technologies in the environment for sustainable management of pesticides Elaborates on advanced prospective vide application and modern practices of harnessing the potential of microbial resources in environment **Advances in Soil Microbiology: Recent Trends and Future Prospects** Tapan Kumar Adhya,Bibhuti Bhusan Mishra,K. Annapurna,Deepak Kumar Verma,Upendra Kumar,2018-01-30 This book presents a comprehensive collection of articles illustrating the importance of microbial community structure and function for ecosystem sustainability and environmental reclamation It addresses a diverse range of topics including microbial diversity physiology genomics ecosystem function interaction metabolism and the fruitful use of microbial communities for crop productivity and environmental remediation In addition the book explores issues ranging from general concepts on the diversity of microorganisms in soil and ecosystem function to the evolution and taxonomy of soil microbiota with future prospects It covers cutting edge methods in soil microbial ecological studies rhizosphere microflora the role of organic matter in plant productivity biological nitrogen fixation and its genetics microbial transformation of plant nutrients in soil plant growth promoting rhizobacteria and organic matter transformation The book also discusses the application of microbes in biodegradation of xenobiotic contaminants It covers bio fertilizers and their role in sustainable agriculture and soil health biological control of insect pests and plant pathogens and the latest tools of omics in soil microbiology i e genomics proteomics transcriptomics and metabolomics which offer pioneering approaches to the exploration of microbial structure and function *Advances in Organometallic Chemistry* ,2016-05-25 *Advances in Organometallic Chemistry* contains authoritative review articles of world wide known researchers on the field of organometallic chemistry covering topics in organometallic synthesis reactions mechanisms homogeneous catalysis and more The book will benefit a wide range of researchers involved in organometallic chemistry including synthetic protocols mechanistic studies and practical applications Contains contributions from leading authorities in the field of organometallic

chemistry Covers topics in organometallic synthesis reactions mechanisms homogeneous catalysis and more Informs and updates readers on all the latest developments in the field Carefully edited to provide easy to read material *Advances in Agricultural Microbiology* N.S. Subba Rao, 2016-06-06 *Advances in Agricultural Microbiology* is a collection of papers about the progresses in the field of agricultural microbiology The said papers are contributions of different experts in related fields The book is divided into three sections Section A covers topics related to the role of microorganisms in the mobilization of nutrients for plant growth such as the relationship of microbial genetics and biological nitrogen plant surface microflora and plant nutrition and developments in grass bacteria associations Section B discusses the use of microorganisms in the management of pathogens pests and weeds and includes topics such as the microbial control of insect pests microbial herbicides and agricultural antibiotics Section C tackles strategies in bioconversion such as the production of biogas from agricultural wastes bioconversion of lignocelluloses into protein rich food and feed and ethanol fuel from biomass The text is recommended for biologists and agriculturists who would like to know more about the importance of microorganisms in the field of agriculture **Advances in Microbial Ecology** K.C. Marshall, 2013-11-11 The International Committee on Microbial Ecology ICOME sponsors both the International Symposium on Microbial Ecology held in various parts of the world at three year intervals and the publication of *Advances in Microbial Ecology* *Advances* was established to provide a vehicle for in depth critical and even provocative reviews in microbial ecology and is now recognized as a major source of information for both practicing and prospective microbial ecologists The Editorial Board of *Advances* normally solicits contributions from established workers in particular areas of microbial ecology but individuals are encouraged to submit outlines of unsolicited contributions to any member of the Editorial Board for consideration for publication in *Advances* Chapters in Volume 11 of *Advances in Microbial Ecology* include those on microbial transformations of chitin by G W Gooday organic sulfur compounds by D P Kelly and N A Smith and phosphorus including its removal in waste water treatment plants by D F Toerien A Gerber L H Lotter and T E Cloete The importance of diffusion processes in microbial ecology is discussed by A L Koch and I I Prosser reviews the application of mathematical modeling to nitrification processes Considerations of particular ecosystems include the Antarctic by D D Wynn Williams and Australian coastal microbial mats by G W Skyring and I Bauld Other chapters include the regulation of N₂ fixation by H W *Recent Developments in Applied Microbiology and Biochemistry* Viswanath Buddolla, 2020-10-15 *Recent Developments in Applied Microbiology and Biochemistry* Vol 2 provides a comprehensive treatment and understanding on application oriented microbial concepts giving readers insights into recent developments in microbial biotechnology and medical agricultural and environmental microbiology Discusses microbial proteome analyses and their importance in medical microbiology Explores emerging trends in the prevention of current global health problems such as cancer obesity and immunity Shows recent approaches in the production of novel enzymes from environmental samples by enrichment culture and metagenomics approaches Guides readers through the status and

recent developments in analytical methods for the detection of foodborne microorganisms

Biological Nitrogen Fixation

Frans J. de Bruijn, 2015-06-12 Nitrogen is arguably the most important nutrient required by plants. However, the availability of nitrogen is limited in many soils, and although the earth's atmosphere consists of 78.1% nitrogen gas (N_2), plants are unable to use this form of nitrogen. To compensate, modern agriculture has been highly reliant on industrial nitrogen fertilizers to achieve maximum crop productivity. However, a great deal of fossil fuel is required for the production and delivery of nitrogen fertilizer. Moreover, carbon dioxide (CO_2), which is released during fossil fuel combustion, contributes to the greenhouse effect, and run-off of nitrate leads to eutrophication of the waterways. Biological nitrogen fixation is an alternative to nitrogen fertilizer. It is carried out by prokaryotes using an enzyme complex called nitrogenase, and results in atmospheric N_2 being reduced into a form of nitrogen that diazotrophic organisms and plants are able to use as ammonia. It is this process and its major players which will be discussed in this book. *Biological Nitrogen Fixation* is a comprehensive two-volume work bringing together both review and original research articles on key topics in nitrogen fixation. Chapters across both volumes emphasize molecular techniques and advanced biochemical analysis approaches applicable to various aspects of biological nitrogen fixation. Volume 1 explores the chemistry and biochemistry of nitrogenases, *nif* gene regulation, the taxonomy, evolution, and genomics of nitrogen-fixing organisms, as well as their physiology and metabolism. Volume 2 covers the symbiotic interaction of nitrogen-fixing organisms with their host plants, including nodulation and symbiotic nitrogen fixation, plant and microbial omics, cyanobacteria, diazotrophs, and non-legumes, field studies, and inoculum preparation, as well as nitrogen fixation and cereals. Covering the full breadth of current nitrogen fixation research and expanding it towards future advances in the field, *Biological Nitrogen Fixation* will be a one-stop reference for microbial ecologists and environmental microbiologists, as well as plant and agricultural researchers working on crop sustainability.

Organic Recycling in Africa

, 1980-01-01 *CRC Handbook of Plant Science in Agriculture* B.R. Christie, 2023-01-06 First published in 1987, this two-volume set is an exhaustive compilation of the most recent data on economically important crops. Volume I presents information on genetics, botany, and growth of crop plants, while Volume II covers the production of crops and their utilization.

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