

Present

CO_2

N_2O

Large amounts of fossil fuels



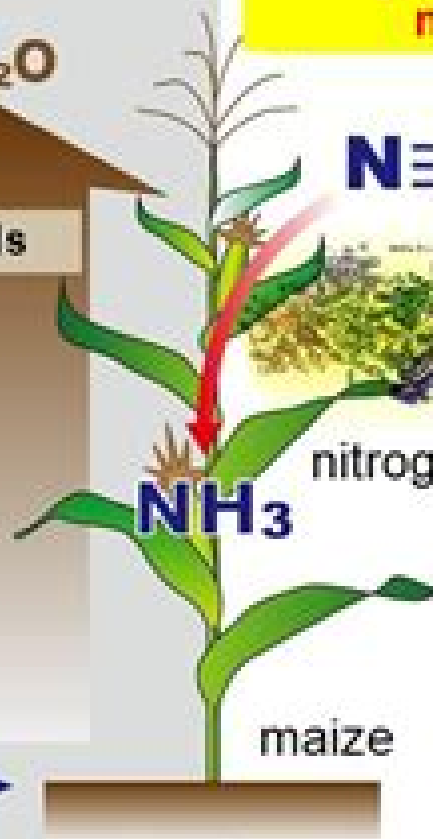
$\text{N}\equiv\text{N}$

Industrial N_2 fixation
(500°C , >200 atm)

NH_3

Synthetic
nitrogen fertilizer
(urea, $(\text{NH}_4)\text{NO}_3$...)

Agriculture dependent
on synthetic nitrogen
fertilizers



maize

NH_3

$\text{N}\equiv\text{N}$

nitrogenase

Agriculture with crops
producing their own
nitrogen fertilizer

2050

2030~

From model plants to
practical crops

Arabidopsis



Introduction of *nif* genes to a model plant



nif core genes

Non- N_2 fixing cyanobacteria



N_2 fixing cyanobacteria

nif gene cluster

Symbiotic Nitrogen Fixation Technology

**Hiroshi Ashihara, Alan Crozier, Atsushi
Komamine**



Symbiotic Nitrogen Fixation Technology:

Symbiotic Nitrogen Fixation Technology Gerald H. Elkan, 1987-05-22 Collection isolation and maintenance of Rhizobia and Frankia Collection cultivation and maintenance of azolla Collection isolation cultivation and maintenance of associative N₂ fixing bacteria Fluorescence methods for study of Rhizobium in culture and in situ Serological techniques for Bradyrhizobium and Rhizobium identification Enzyme linked immunosorbent assay ELISA for the detection and identification of Rhizobium strains Use of Intrinsic culture and antibiotic resistance for Rhizobium Study Isolation and identification of genetically marked strains of nitrogen fixing microsymbionts of soybeans Measurement of nitrogen fixation by direct means Measurement of biological fixation using acetylene reduction Measuring ureides Evaluation of nitrogen fixation by legumes in the greenhouse and growth chamber Principles and practice of field designs to evaluate symbiotic nitrogen fixation Production and quality control of inoculants Role of culture collections in biological nitrogen fixation

Symbiotic Nitrogen Fixation Rachid Serraj, 2004 The International Workshop on Biological Nitrogen Fixation for Increased Crop Productivity Enhanced Human Health and Sustained Soil Fertility was held in June 2002 at ENSAM INRA Montpellier France The main goal of the workshop was to define research strategies for a Challenge Program initiative on Biological Nitrogen Fixation and develop a pre proposal based on the concept note submitted and approved by the CGIAR iSC More than 35 participants from various scientific disciplines research institutions and from four different continents Africa Asia Americas and Europe attended the workshop This book based on the proceedings of the workshop takes a holistic approach to harnessing legume BNF technologies starting from a socioeconomic perspective and progressing to agronomic and genetic options and bringing together innovative aspects and participatory research strategies

Biological Nitrogen Fixation Gary S. Stacey, Robert H. Burris, Harold J. Evans, 1992-04-30 Phylogenetic classification of nitrogen fixing organisms Physiology of nitrogen fixation in free living heterotrophs Nitrogen fixation by photosynthetic bacteria Nitrogen fixation in cyanobacteria Nitrogen fixation by methanogenic bacteria Associative nitrogen fixing bacteria Actinorhizal symbioses Ecology of bradyrhizobium and rhizobium The rhizobium infection process Physiology of nitrogen fixing legume nodules compartments and functions Hydrogen cycling in symbiotic bacteria Evolution of nitrogen fixing symbioses The rhizobium symbiosis of the nonlegume parasponia Genetic analysis of rhizobium nodulation Nodulins in root nodule development Plant genetics of symbiotic nitrogen fixation Molecular genetics of bradyrhizobium symbioses The enzymology of molybdenum dependent nitrogen fixation Alternative nitrogen fixation systems Biochemical genetics of nitrogenase Regulation of nitrogen fixation genes in free living and symbiotic bacteria Isolated iron molybdenum cofactor of nitrogenase

Soil Sampling and Methods of Analysis M.R. Carter, 1993-07-06 Soil Sampling and Methods of Analysis is a practical methods manual and resource handbook that covers a wide array of methods for analyzing soil chemical biological biochemical and physical properties Soil testing for plant nutrients and methods to characterize organic soils and frozen soils are also provided The book presents recent

improvements in methodology outlines new methods and characterizes the best methods available for selecting appropriate analysis techniques Methods have been selected for their accuracy speed and ease of duplication References are provided for each method The book is ideal for scientists engineers and students in agriculture horticulture forestry geography remote sensing environmental science and land use planning **Biotechnology of Biofertilizers** Sadasivam

Kannaiyan,2002-11-30 Table of contents *Applications of Genetic Engineering to Crop Improvement* G.B. Collins,Joseph F. Petolino,2012-12-06 The contributions of plant genetics to the production of higher yielding crops of superior quality are well documented These successes have been realized through the application of plant breeding techniques to a diverse array of genetically controlled traits Such highly effective breeding procedures will continue to be the primary method employed for the development of new crop cultivars however new techniques in cell and molecular biology will provide additional approaches for genetic modification There has been considerable speculation recently concerning the potential impact of new techniques in cell and molecular biology on plant improvement These genetic engineering techniques should offer unique opportunities to alter the genetic makeup of crops if applied to existing breeding procedures Many questions must be answered in order to identify specific applications of these new technologies This search for applications will require input from plant scientists working on various aspects of crop improvement This volume is intended to assess the interrelationships between conventional plant breeding and genetic engineering *Biological Nitrogen Fixation* Martin Alexander,2012-12-06

In ten chapters attention is paid to taxonomy metabolism ecology limiting soil and plant factors breeding and selection of Rhizobium and to the associative nitrogen fixation of Azospyrillum Also the current use of legume inoculant technology is considered **Optimizing the Delivery of Multiple Ecosystem Goods and Services in Agricultural Systems** Maria A. Tsiafouli,Evangelia G. Drakou,Alberto Orgiazzi,Katarina Hedlund,Karl Ritz,2017-10-18 Agricultural land is subjected to a variety of societal pressures as demands for food animal feed and biomass production increase with an added requirement to simultaneously maintain natural areas and mitigate climatic and environmental impacts The biotic elements of agricultural systems interact with the abiotic environment to generate a number of ecosystem functions that offer services benefiting humans across many scales of time and space The intensification of agriculture generally reduces biodiversity including that within soil and impacts negatively upon a number of regulating and supporting ecosystem services There is a global need toward achieving sustainable agricultural systems as also highlighted in the United Nations Sustainable Development Goals There is hence a need for management regimes that enhance both agricultural production and the associated provision of multiple ecosystem services The articles of this Research Topic enhance our knowledge of how management practices applied to agricultural systems affect the delivery of multiple ecosystem services and how trade offs between provisioning regulating and supporting services can be handled both above and below ground They also show the diversity of topics that need to be considered within the framework of ecosystem services delivered by agricultural systems from knowledge on

basic concepts and newly proposed frameworks to a focus on specific ecosystem types such as grasslands and high nature value farmlands pollinator habitats and soil habitats This diversity of topics indicates the need for broader scope research integrated with targeted scientific research to promote sustainable agricultural practices and to ensure food security

Plant Metabolism and Biotechnology Hiroshi Ashihara, Alan Crozier, Atsushi Komamine, 2010-03-11 Various plant metabolites are useful for human life and the induction and reduction of these metabolites using modern biotechnical technique is of enormous potential important especially in the fields of agriculture and health Plant Metabolism and Biotechnology describes the biosynthetic pathways of plant metabolites their function in plants and some applications for biotechnology Topics covered include biosynthesis and metabolism of starch and sugars lipid biosynthesis symbiotic nitrogen fixation sulfur metabolism nucleotide metabolism purine alkaloid metabolism nicotine biosynthesis terpenoid biosynthesis benzylisoquinoline alkaloid biosynthesis monoterpene indole alkaloid biosynthesis flavonoid biosynthesis pigment biosynthesis anthocyanins betacyanins and carotenoids metabolomics in biotechnology Plant Metabolism and Biotechnology is an essential guide to this important field for researchers and students of biochemistry plant biology metabolic engineering biotechnology food science agriculture and medicine Integrated Plant Nutrition Systems Raoul Dudal, R. N.

Roy, 1995-01-01 This publication is structured on the main themes of the consultation the importance of plant nutrition for meeting agricultural product requirements soil organic matter biomass soil microflora and management of integrated plant nutrition systems renewable supply of plant nutrients from natural sources and plant nutrient transfer to crops the place and role of local and external sources of plant nutrients in cropping systems and their evaluation plant nutrient management in farming systems and in watersheds and territories and priorities for FAO's Integrated Plant Nutrition Systems IPNS programme

CRC Handbook of Symbiotic Cyanobacteria Amar Nath Rai, 2018-05-04 In one convenient source this ready reference brings together for the first time all the information available on various cyanobacterial symbioses symbiotic cyanobacteria Comprehensive data on structure physiology biochemistry and molecular biology of the cyanobiont in various cyanobacterial symbioses is included Applied aspects such as use of Azolla in rice cultivation and artificial symbioses are addressed along with a chapter dedicated to methodology This informative new text is useful to researchers teachers and students Biological nitrogen fixation in forest ecosystems: foundations and applications John C. Gordon, C.T.

Wheeler, 2012-12-06 Advanced Technology Assessment System, 1992 **Genetic Engineering of Symbiotic Nitrogen**

Fixation and Conservation of Fixed Nitrogen J. M. Lyons, 2012-12-06 The present volume developed from a symposium entitled Enhancing Biological Production of Ammonia From Atmospheric Nitrogen and Soil Nitrate that was held at Lake Tahoe California in June 1980 The meeting was supported by the National Science Foundation Division of Engineering and Applied Sciences and by the College of Agricultural and Environmental Sciences University of California Davis A total of 99 scientists from 41 institutions participated Plants capture solar energy in photosynthesis and use mineral nutrients to

produce human food and fiber products The extent to which such materials are removed from agricultural production sites represents a permanent drain of mineral nutrients Some plants of agronomic importance such as alfalfa soybean and clover associate with soil bacteria and use photosynthetic energy to reduce N_2 to NH_3 Many other free living bacteria and some symbioses involving procaryotes and eucaryotes also reduce N_2 Such processes represent one natural mechanism by which Man can augment soil N for agronomic purposes without using fossil fuel to synthesize and distribute N fertilizer Other metabolic conversions in the N cycle and physical leaching processes remove N made available through N_2 fixation Thus nitrification denitrification and utilization of soil N by plants are processes that must be considered if one is to conserve N captured by N_2 fixation The meeting at Lake Tahoe united scientists from many disciplines to review the literature and to discuss current research directed toward the goal stated in the symposium title *Biotechnology and Recombinant DNA Technology in the Animal Production Industries* R. A. Leng, 1985 **Technical Series Bulletin** Ohio Agricultural Experiment Station, 1889 Technical Handbook on Symbiotic Nitrogen Fixation Food and Agriculture Organization of the United Nations, 1993-01-01 General information on the symbiotic nitrogen fixation Isolation identification and counting of rhizobia Production of an inoculant and inoculation of legumes Experiments The Evaluation and Improvement of Soil Fertility in Latin America International Soil Fertility Evaluation & Improvement Program, 1967 **Engineering Extension Series**, 1960 Includes proceedings of various conferences sponsored by the University *Technical Communication*, 1980

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