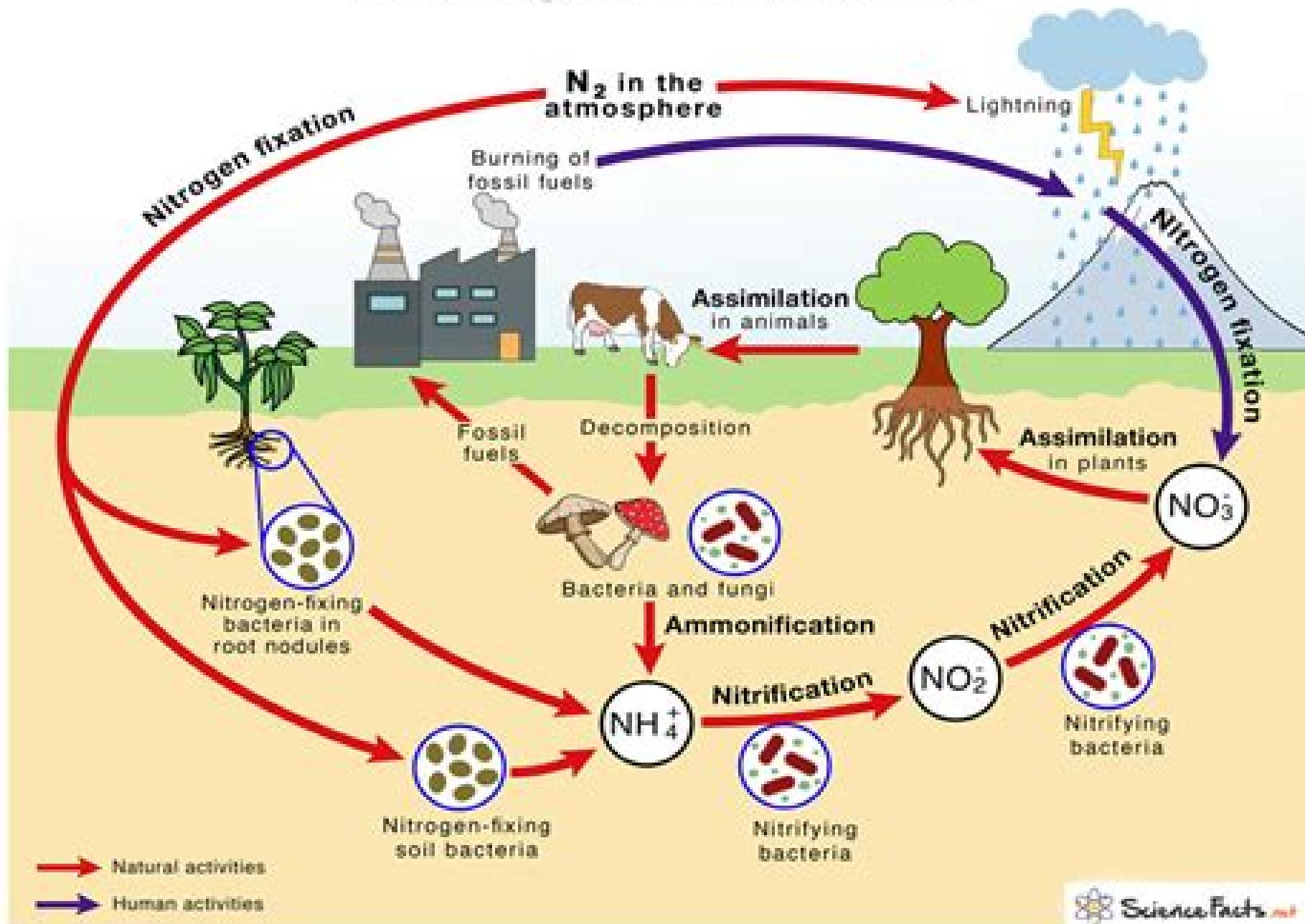


# Nitrogen Fixation



# Nitrogen Fixation

**F. J. Bergersen**

## **Nitrogen Fixation:**

*Nitrogen Fixation* John Raymond Postgate, 1998-10-15 This book provides an introductory level survey of biological nitrogen fixation covering the role of the process in the global nitrogen cycle as well as its biochemistry physiology genetics ecology general biology and prospects for its future exploitation    **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    **Nitrogen Fixation by Free-Living Micro-Organisms**

William Duncan Patterson Stewart, 1975 This 1976 volume provides information presented at an international symposium in Edinburgh on the free living nitrogen fixing bacteria and blue green algae In addition to information on the distribution of the nitrogenase enzyme within these groups their role in the soil and in aquatic systems is considered as are the methods of measuring nitrogen fixation    **Nitrogen Fixation in Tropical Cropping Systems** Ken E. Giller, 2001-01-01 The second edition of this book first published in 1991 and intended for students and researchers contains revised and updated material on the theory and practice of nitrogen fixation in tropical cropping systems There are 15 chapters in 3 parts Part I

Introduction contains 5 chapters on tropical environments climate soils and cropping systems nitrogen fixing organisms the process of nitrogen fixation assessment of the role of nitrogen fixation and cycling of nitrogen in tropical cropping systems Part II Tropical crops and cropping systems comprises 7 chapters on freeliving root associated and endophytic nitrogen fixing bacteria of cereal crops and grasses cyanobacteria and *Azolla* as green manure for wetland rice grain legumes legumes as green manures and cover crops forage legumes understorey legumes and shade trees in plantation crops and nitrogen fixing trees in agroforestry Part III optimizing nitrogen fixation includes 3 chapters on environmental constraints approaches to enhancement and future impacts on nitrogen fixation in tropical agriculture A list of common names and subject index are included    **Biological nitrogen fixation in forest ecosystems: foundations and applications** John C. Gordon, C.T. Wheeler, 2012-12-06    **Nitrogen Fixation in Plants** R. O. D. Dixon, Christopher T. Wheeler, 1986 THE IMPORTANCE OF NITROGEN FIXATION ON MANAGED AND NATURAL ECOSYSTEMS    [Nitrogen Fixation in Agriculture, Forestry, Ecology, and the Environment](#) Dietrich Werner, William E. Newton, 2005-10-24 Sustainability has a major part to play in the

global challenge of continued development of regions countries and continents all around the World and biological nitrogen fixation has a key role in this process This volume begins with chapters specifically addressing crops of major global importance such as soybeans rice and sugar cane It continues with a second important focus agroforestry and describes the use and promise of both legume trees with their rhizobial symbionts and other nitrogen fixing trees with their actinorhizal colonization An over arching theme of all chapters is the interaction of the plants and trees with microbes and this theme allows other aspects of soil microbiology such as interactions with arbuscular mycorrhizal fungi and the impact of soil stress factors on biological nitrogen fixation to be addressed Furthermore a link to basic science occurs through the inclusion of chapters describing the biogeochemically important nitrogen cycle and its key relationships among nitrogen fixation nitrification and denitrification The volume then provides an up to date view of the production of microbial inocula especially those for legume crops

**Catalysts for Nitrogen Fixation** Barry E. Smith, Raymond L. Richards, William E.

Newton, 2013-03-20 Biological nitrogen fixation provides more than 50% of the total annual input of the essential element nitrogen to world agriculture Thus it is of immense agronomic importance and critical to food supplies particularly in developing countries This book with chapters authored by internationally renowned experts provides a comprehensive and detailed account of the fascinating history of the process including the surprising discoveries of molybdenum independent nitrogenases and superoxide dependent nitrogenase a review of Man's attempts to emulate the biological process most successfully with the commercially dominant Haber Bosch process and the current state of the understanding art with respect to the enzymes called nitrogenases responsible for biological nitrogen fixation The initial chapters use a historical approach to the biological and industrial processes followed by an overview of assay methodologies The next set of chapters focuses on the classical enzyme the molybdenum nitrogenase and details its biosynthesis structure composition and mechanism of action as well as detailing both how variants of its two component proteins are constructed by recombinant DNA technology and how computational techniques are being applied The sophisticated chemical modelling of the metal containing clusters in the enzyme is reviewed next followed by a description of the two molybdenum independent nitrogenases first the vanadium containing enzyme and then the iron only nitrogenase together with some thoughts as to why they exist Then follows an up to date treatment of the clearly non classical properties of the superoxide dependent nitrogenase which more closely resembles molybdenum containing hydroxylases and related enzymes like nitrate reductase that it does the other nitrogenases Each chapter contains an extensive list of references This book is the self contained first volume of a comprehensive seven volume series No other available work provides the up to date and in depth coverage of this series and this volume This book is intended to serve as an indispensable reference work for all scientists working in this area including agriculture and the closely related metals in biology area to assist students to enter this challenging area of research and to provide science administrators easy access to vital relevant information

[Nitrogen Fixation in Bacteria](#)

and Higher Plants R.C. Burns, R.W.F. Hardy, 2012-12-06 Our knowledge of the biochemistry and biophysics of dinitrogen fixation has developed rapidly in the 15 years since the first N<sub>2</sub> fixing enzyme system was successfully extracted from a bacterium. This period has produced a literature that now describes the N<sub>2</sub> fixation reaction and the nitrogenase enzyme itself in sophisticated terms though a detailed reaction mechanism at the chemical level has not yet emerged. It is the purpose of the present monograph to present an in depth review analysis and integration of this research as is possible with a non contributed publication and to relate this work to considerations of N<sub>2</sub> fixation that reach beyond the confines of the biochemist's laboratory. The first section is directed as much toward the general science reader as toward the specialist. It covers the agricultural origins of man's interest in N<sub>2</sub> fixation and also pertinent areas of taxonomy, physiology and evolution. Ecological aspects of the subject include a comprehensive evaluation of the nitrogen cycle leading to a substantially greater estimate of the rate of global N<sub>2</sub> fixation than previous ones. The treatment is of a survey fashion in part to provide a general overview of N<sub>2</sub> fixation and in part to provide context for the biochemistry and biophysics that follow in the second section.

**Nitrogen Fixation and Nitrogen Cycle** Hajime Takahashi, 1975 Nitrogen fixation Nitrogen fixing blue green algae used as green manure. Physiology and ecology of the nitrogen fixing blue green algae contribution of blue green algae to the nitrogen fixation in paddy soils. Non leguminous root nodules in Japan a supplementary report. Formation and functions of nitrogen fixing nodule in soybean. Allantoin formation in the symbiotic condition. Studies on symbiotic nitrogen fixation. Nitrogen fixing and hydrogenase activities in extracts of legume root nodules. Ecological study of free living nitrogen fixers in paddy soil. On the abundance of free living nitrogen fixers in Japanese forest soil. Effect of soil on nitrogen fixation by *azotobacter vinelandii*. Contribution to nitrogen fixation and soil fertility by photosynthetic bacteria. Nitrogen fixation in the open sea. Nitrogen balance in soil and water. On a meaning of life form of plants in relation to their nitrogen utilization. The immobilization and release of nitrogen in soil and the chemical characteristics of nitrogen in those processes. Fate of nitrogenous compounds in the soil. Fractionation of soil humus by ultrafiltration. Geochemical studies on the cycle of carbon and nitrogen in a mesotrophic lake. The diurnal variation of organic constituents of particulate matter in coastal water. Studies on the marine microorganisms taking part in the nitrogen cycle in the sea. The diurnal variation of the number of phytoplankton in natural sea water. Microorganisms related to mineralization of chitin in aquatic environments. Inorganic nitrogen metabolism in coastal and oceanic waters of the Pacific. *Biological Nitrogen Fixation, 2 Volume Set* Frans J. de Bruijn, 2015-07-07 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<sub>2</sub> 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<sub>2</sub>) 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<sub>2</sub> being reduced into a form of nitrogen diazotrophic organisms and plants are able to use 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 *The Biology of Nitrogen Fixation* Anton Quispel,1974 General introduction Methodology Free living heterotrophic nitrogen fixing bacteria Nitrogen fixation in the phyllosphere Photosynthetic bacteria Blue green algae Associations with blue green algae Root nodule symbioses with Rhizobium Root nodulesymbioses with actinomycete like organisms Development of root nodule symbioses Putative nitrogen fixation in otther symbioses The enzyme system Genetics of N<sub>2</sub> fixing organisms Prerequisites for biological nitrogen fixation *Principles of Terrestrial Ecosystem Ecology* Francis Stuart Chapin (III),Pamela A. Matson,Harold A. Mooney,2002-08-12 Features review questions at the end of each chapter Includes suggestions for recommended reading Provides a glossary of ecological terms Has a wide audience as a textbook for advanced undergraduate students graduate students and as a reference for practicing scientists from a wide array of disciplines

### **Methods for Evaluating**

**Biological Nitrogen Fixation** F. J. Bergersen,1980 The cultivation of diazotrophic microorganisms Measurement of nitrogen fixation by direct means Measurement of nitrogen fixation by indirect means Methods for legumes in glasshouses and controlled environment cabinets Non legumes nodule systems Methods for studying nitrogenase Methods for studying enzymes involved in metabolism related to nitrogenase Preparation and experimental use of leghaemoglobin Methods for identifying strains of diazotrophs Genetic studies with diazotrophs Experiments with crop and pasture legumes principles and practice Production and quality control of legume inoculants Forage grasses and grain crops Nitrogen fixation in natural plant communities and soils Sytems involving blue green algae cyanobacteria Biological Nitrogen Fixation Nanjappa Shamanna Subba Rao,1988 *Opportunities for Biological Nitrogen Fixation in Rice and Other Non-Legumes* J.K. Ladha,F.J. de Bruijn,K.A. Malik,1997-10-31 Proceedings of the Second Working Group Meeting of the Frontier Project on Nitrogen

Fixation in Rice held in Faisalabad Pakistan 13 15 October 1996

**Biological Nitrogen Fixation** John Raymond

Postgate,1972      **Nitrogen Fixation in Crop Production** David W. Emerich,Hari B. Krishnan,American Society of Agronomy,Crop Science Society of America,Soil Science Society of America,2009 This book presents the science application and politics of the use of nitrogen fixing crop plants across the globe in various environments Nitrogen fixation can help provide a growing population with a nutritious environmentally friendly sustainable food supply From new omics approaches to the role of nitrogen fixation in mitigating greenhouse gas emissions from farming strategies in nonindustrialized nations to nitrogen fixation in the global economy scientists will find the key issues and expanding research areas and how they contribute to the next wave of advancements related to agriculture and the environment      *Biological Nitrogen Fixation for the 21st Century* Claudine Elmerich,Adam Kondorosi,William E. Newton,2013-12-01 Nitrogen availability is one of the most critical factors that limits plant productivity The largest reservoir of nitrogen is the atmosphere but this gaseous molecular nitrogen only becomes available to plants through the biological nitrogen fixation process which only prokaryotic cells have developed The discovery that microbes were providing fixed nitrogen to legumes and the isolation of the first nitrogen fixing bacteria occurred at the end of the 19th Century in Louis Pasteur's time We are now building on more than 100 years of research in this field and looking towards the 21st Century The International Nitrogen Fixation Congress series Started more than 20 years ago The format of this Congress is designed to gather scientists from very diverse origins backgrounds interests and scientific approaches and is a forum where fundamental knowledge is discussed alongside applied research This confluence of perspectives is we believe extremely beneficial in raising new ideas questions and concepts

**Biological Nitrogen Fixation, Sustainable Agriculture and the Environment** Yi-Ping Wang,Min Lin,Zhe-Xian Tian,Claudine Elmerich,William E. Newton,2006-01-30

The 14th International Nitrogen Fixation Congress was held in Beijing China from October 27th through November 1st 2004 This volume constitutes the proceedings of the Congress and represents a compilation of the presentations by scientists from more than 30 countries around the World who came to Beijing to discuss the progress made since the last Congress and to exchange ideas and information This year marked the 30th anniversary of the first Congress held in Pullman Washington USA in 1974 Since then this series of Congresses has met five times in North America three in the United States and once each in Canada and Mexico once in South America Brazil four times in Western Europe once each in Spain The Netherlands Germany and France once in Eastern Europe Russia and once in Australia and now for the first time in Asia China was a most appropriate choice because China is a big country with the largest population in the World about 1.3 billion people which is about 22% of the World's population It is traditionally an agricultural country even though China has only 7% of the available farming land This situation explains why agriculture and its productivity are major issues for the Chinese people its government and the scientists in the field

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