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Molecular Biology of Nitrogen Fixation

Manipulation of nitrogen fixation genes may lead to increased production of high-quality protein.

K. T. Shanmugam and Raymond C. Valentine

The nitrogen in our protein food-stuffs is derived from the vast reservoir of atmospheric nitrogen by nitrogen fixation. Nitrogen-fixing organisms, such as the familiar root nodule bacteria of leguminous plants (soybeans, for example) probably account for about one-half of the total amount of nitrogen fixed annually. Large amounts of nitrogen are also fixed by chemical means, during the manufacture of nitrogenous fertilizers, for example. The great demand for these fertilizers is indicated by the more than 580 chemical fertilizer plants now in operation or under construction throughout the world, representing an investment of more than \$10 billion (1). The manufacture of fertilizers, however, requires vast inputs of energy. Sweeney estimates that the total amount of energy required for the production of ammonium fertilizers is equivalent to 2 million (2×10^6) barrels of oil per day, worldwide (1). In North America, the consumption of nitrogenous fertilizers exceeded 8 million tons

(metric) in 1973, more than 22 percent of the total world consumption (2). For corn production alone, U.S. farmers today apply nitrogenous fertilizers representing an energy input of nearly 900,000 kilocalories per acre (2,430 megacalories per hectare) (3). This energy input itself is almost as large as the total energy input for the 1945 corn crop.

The basic commercial process for manufacturing ammonia, which consists of catalytically reacting hydrogen with nitrogen under high pressure and temperature to form ammonia ($3\text{H}_2 + \text{N}_2 = 2\text{NH}_3$), has not changed since it was inaugurated in 1913. The dramatically rising price of petroleum as a source of hydrogen, and the many ecological and economic limitations to the heavy use of chemical fertilizers, have stimulated much interest in nitrogen fixation by microorganisms. A better understanding of the nature and manipulation of the biological system might lead to cheaper and more efficient means of producing high quality plant protein.

The only organisms known to fix nitrogen are certain bacteria that harbor the nitrogen fixation (*nif*) genes.

Nitrogenase genes code for nitrogenase proteins that catalyze biological nitrogen fixation. One objective of particular significance in the application of molecular biology to the study of nitrogen fixation in bacteria is eventual "infection" of nonleguminous plants such as the cereals with *nif* genes.

Discovery and Mapping of the Genes for Nitrogen Fixation

At Berkeley in 1971 we identified several crucial genes for nitrogen fixation which were clustered on a small segment of the chromosome of the nitrogen-fixing bacterium, *Klebsiella pneumoniae* (4). These genes were discovered at about the same time by Dixon and Postgate who were working in England (5, 6). Although the biochemistry of nitrogen fixation was not as well understood in *K. pneumoniae* as it was in other better known nitrogen-fixing bacteria, such as *Azotobacter* and some of the clostridia, we chose to work with the *Klebsiella* species because of its close genetic (evolutionary) relationship to *Escherichia coli*, which is generally acknowledged as the best understood of all living cells. We have been able to exploit the close genetic relationship between these two bacteria in a number of ways.

The finding that the bacteriophage P1 of *E. coli* would mediate the transduction of the *nif* genes (4) provided the foundation for studies of the molecular biology of nitrogen fixation. Transductional analysis of *K. pneumoniae* with coliphage P1 yielded several important facts; the most important was that the *nif* genes formed a cluster near the histidine operon on the *K. pneumoniae* linkage map, as shown by cotransductional mapping (4, 7). Most chemically induced mutations of the *nif* genes, in which the ability to synthesize nitrogenase was lost (*nif*⁻), were found to be cotransduced with the *his* D gene (8) at a frequency between 30 and 80 percent. As calculated from

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Nitrogen Fixation Vol 4 Molecular Biology Hb

C. M. Chadwick, D. R. Garrod



Nitrogen Fixation Vol 4 Molecular Biology Hb:

Molecular Biology Of Symbiotic Nitrogen Fixation Peter M. Gresshoff, 2018-01-18 The core of the text is aimed at the research worker in the field of nitrogen fixation but despite its specialisation does not lose the emphasis on teaching both as a direct reference book and as a backbone for a graduate course on the subject The closing part of the book includes a subject index and a glossary of terms The latter was included not for the expert for whom many of the definitions will be too general but for the newcomer the author hopes that the quick survey of key terms will help in the reading of this book

Temporal and Spatial Regulation of Plant Genes Desh Pal S Verma, Robert B. Goldberg, 2012-12-06 First attempts to isolate plant genes were for those genes that are abundantly expressed in a particular plant organ at a specific stage of development However many important gene products are produced in a very minute quantity and in specialized cell types Such genes can now be isolated using a variety of approaches some of which are described in this volume The rapid progress during the last decade in regeneration of a number of crop plants and the availability of molecular tools to introduce foreign genes in plants is allowing the engineering of specific traits of agricultural importance These genes must however be regulated in a spatial and temporal manner in order to have desired effects on plant development and productivity The habitat of plants necessitate adaptive responses with respect to the environmental changes Starting from germination of the seed the plant begins to sense environmental cues such as moisture light temperature and the presence of pathogens and begins to respond to them Little is known about various signal transduction pathways that lead to biochemical and morphogenetic responses in particular transition from vegetative to reproductive phase With the availability of tools to generate specific mutations via transposon tagging identification and isolation of genes affecting these processes may be facilitated Transfer of these genes into heterologous environments will allow understanding of the complex processes that control plant development

Nodulation and Nitrogen Fixation in Rice Gurdev S. Khush, J. Bennett, 1992 Rhizobium legume interactions Genesis of root nodules and the of host genes Developmental aspects of the rhizobium legume symbiosis Host genetics of the nodulation phenotype Hormones and nodule formation cytokinin induction of the Sesbania rostrata early nodulin Enod2 Regulation of nodulation genes Oligosaccharins oligosaccharides with regulatory functions The lipooligosaccharidic nodulation signals of Rhizobium meliloti Role of exopolysaccharides in nodulation Bacterial entry into roots Nonlegume N₂ fixing associations Symbiosis with frankia Exploring new soil bacteria Rhizobium nodulation of nonlegumes Nodulation genes and biosynthesis of inodule acetic acid IAA in Azospirillum brasilense Ammonium excretion by NilfIL mutants of Azotobacter vinelandii Genetics of associative nitrogen fixation in wheat Potential for development of novel N₂ fixing associations Potential and limitations of developing new plant microbe interactions Application of present knowledge on rhizobial host specificity to obtain efficient nodulation and nitrogen fixation of rice Genetic transformation of rice and molecular basis of agroinfection Nitrogen fixation in para nodulated wheat Invasion of nonlegume plants by diazotrophic

bacteria Development of nodulelike structure on rice roots

Nitrogen Fixation: Fundamentals and Applications Igor

A. Tikhonovich, Nikolai A. Provorov, Vassily I. Romanov, William E. Newton, 2012-12-06 Nitrogen fixation research is presented as a rapidly developing synergistic area of modern science using the methods of and accumulating data from many fundamental branches of biology and chemistry These include catalytic mechanisms protein structure and function molecular organization of genes and the regulation of their activities biochemistry of plants and microorganisms the signalling and surface interactions between organisms microbial taxonomy and evolution formal and population genetics and ecology The relationships between biological nitrogen fixation research and different branches of applied biology are addressed and analyzed such as the monitoring of genetically engineered microorganisms selection of plant associated microbes plant breeding increasing the protein content of crops providing ecologically safe food production and diminishing the chemical pollution of the environment Immediate impacts and long term prospects for nitrogen fixation research are presented both fundamentals and applications

The Big Book of Biology For NEET Volume 1 Janardhanan.T, Sanjay Sharma, 2021-07-26
The Big Book of Biology Volume 1 New Self Study Guide 2 The book is designed on Chapterwise Premises 3 Entire syllabus is divided into 22 Chapters 4 7000 Topically divided objective questions along with detailed explanations 5 more than 13000 MCQs given from all possible typologies There was never a better time to emphasize the Fact that How important doctors are Its probably the most fulfilling and dream career opportunity for any aspirants NEET is the gateway to millions of dreamers to open the door for admission in top MBBS Colleges in India and Biology plays half the role Looking at the need of the hour and based on Changing and Latest Pattern of examination Arihant brings you the The Big Book of Biology The New Self Study Guide has been designed on Chapterwise Premises The all new series of Big Book of Biology for NEET Volume 1 has been designed to fulfil the important needs of all NEET aspirants The syllabus in this volume has been divided into 22 chapters as per latest pattern serving as an in depth question bank of Biology subject This book has 7000 Topically divided objective questions are given for along with the Detailed explanations collection of more than 13000 MCQs given from all possible typologies arranged in Chapterwise and Topicwise as per NEET 2020 Syllabus for practice to the point amicable explanations in each chapter vast coverage given to objection questions asked in various Medical Entrances from 2000 till date 2 The book is designed on Chapterwise Premises 3 Entire syllabus is divided into 22 Chapters 4 7000 Topically divided objective questions along with detailed explanations 5 more than 13000 MCQs given from all possible typologies There was never a better time to emphasize the Fact that How important doctors are Its probably the most fulfilling and dream career opportunity for any aspirants NEET is the gateway to millions of dreamers to open the door for admission in top MBBS Colleges in India and Biology plays half the role Looking at the need of the hour and based on Changing and Latest Pattern of examination Arihant brings you the The Big Book of Biology The New Self Study Guide has been designed on Chapterwise Premises The all new series of Big Book of Biology for NEET Volume 1 has been designed to fulfil the important needs of all

NEET aspirants The syllabus in this volume has been divided into 22 chapters as per latest pattern serving as an in depth question bank of Biology subject This book has 7000 Topically divided objective questions are given for along with the Detailed explanations collection of more than 13000 MCQs given from all possible typologies arranged in Chapterwise and Topicwise as per NEET 2020 Syllabus for practice to the point amicable explanations in each chapter vast coverage given to objection questions asked in various Medical Entrances from 2000 till date TOC The Living world Biological Classification Plant Kingdom Animal Kingdom Morphology of Flowering Plants Anatomy of Flowering Plants Structural Organisation in Animals Cell The Unit of Life Biomolecules Cell Cycle and Cell Division Transports in Plants Mineral Nutrition Photosynthesis in Higher Plants Respiration in Plants Plant Growth and Development Digestion and Absorption Breathing and Exchanging of Gases Body Fluids and Circulation Excretory Products and Their Elimination Locomotion and Movement Neural Control and Coordination Chemical Coordination and Integration *Nitrogen-fixing Actinorhizal Symbioses* Katharina

Pawlowski, William E. Newton, 2007-10-06 Nitrogen fixing Actinorhizal Symbioses This book is part of a seven volume series that was launched in 2004 and covers all aspects of nitrogen fixation from the biological systems to the industrial processes Volume 6 covers nitrogen fixing actinorhizal symbioses which occur between soil actinomycetes of the genus Frankia and a diverse group of dicotyledonous plants collectively called actinorhizal plants These symbioses play vital roles in native ecosystems as well as important components in both forestry and land reclamation The volume is divided into 11 chapters all authored by well known scientists in the field As in previous volumes of this series the first chapter presents an historical perspective and describes the development of actinorhizal research with its focus on the period after the first reproducible isolation of the responsible microorganism by John Torrey s group in 1978 Very early on the initial attempts to characterize the bacterium taxonomically had considered this endosymbiont as an obligate symbiotic bacterium and used its ability to form root nodules and its morphological characteristics within root nodule cells as discriminative criteria to distinguish it from other actinomycetes These efforts led to the emendation of the family Frankiaceae with the type genus Frankia and also to the definition of host specificity groups based on inoculation experiments using crushed nodules However after Frankia strains were isolated from nodules and pure cultures became available many of these early results had to be discarded Chapter 2 describes the techniques used to obtain phenotypic genotypic and phylogenetic information on the members of the genus Frankia Encyclopedia of Molecular Biology, Volume 3 Thomas E. Creighton, 1999-04-23 Annotation The field of molecular biology has revolutionized the study of biology The applications to medicine are enormous ranging from diagnostic techniques for disease and genetic disorders to drugs to gene therapy Focusing on the fundamentals of molecular biology and encompassing all aspects of the expression of genetic information the Encyclopedia of Molecular Biology will become the first point of reference for both newcomers and established professionals in molecular biology needing to learn about any particular aspect of the field **Advances In Plant Physiology (Vol. 4)** A. Hemantaranjan, 2002-07-01 Researches have

made tremendous progress in the area of Plant Physiology greatly increasing our understanding of living processes necessary for biotechnological research. Different volumes of the treatise *Advances in Plant Physiology* covers the entire spectrum of Plant Physiology including the Plant Molecular Biology in order to encourage meaningful research in the coming twenty first century. The true endeavor in this direction is the result of comprehensive authoritative and timely publication of this valuable treatise provides the reader with the most recent information, views and references focused on individual topics through a rich collection of reviews contributed by pioneer workers and of those actively engaged in the studies of various specific areas in different parts of the world with extensive experience, established record of eminence and noted authorities. In fact, this treatise is a treasure for interdisciplinary exchange of information and the approach to topic ranges from theoretical to applied, molecular to organismic and single to multivariable systems. Apart from fulfilling the need of this treatise for research teams and scientists actively working in the areas of plant physiology, biochemistry and plant molecular biology in universities, institutes and research laboratories throughout the world, it would be extremely a useful book and a voluminous reference material for acquiring advanced knowledge by students in response to innovative courses in Plant Physiology, Plant Biochemistry, Agronomy, Genetics and Plant Breeding, Genetic Engineering, Microbiology, Plant Biotechnology and Botany. Over eighteen 18 chapters of Vol 1 extensively elucidate the needful topics of Biological Nitrogen Fixation, Plant Cell and Tissue Culture, Plant Metabolism, certain rare Techniques in Plant Physiology, Herbicides, Physiology, Plant Growth Regulators, Physiology of Rooting, Tree Physiology, Stress Physiology in part and Growth and Development. Hopefully Vol II will comprise other important topics.

Bio-Clean Energy Technologies: Volume 1 Pankaj Chowdhary, Namita Khanna, Soumya Pandit, Rajesh Kumar, 2022-05-30. This book discusses the latest advancements in the area of biofuel development. It covers extensive information regarding different aspects and types of biofuels. The book provides a road map of the various different kinds of biofuels available for consideration including both conventional and advanced algal based biofuels replete with the economic analysis of their production and implementation. The contributors are experienced professors, academicians and scientists associated with renowned laboratories and institutes in India and abroad. This book is of interest to teachers, researchers, biofuel scientists, capacity builders and policymakers. Also, the book serves as additional reading material for undergraduate and graduate students. National and international scientists, policy makers will also find this to be a useful read.

Advances in Plant Physiology (Vol. 10) A. Hemantaranjan, 2008-07-01. Dr S K Panda, Dr Mrs M Dash. This book *Advances in Stress Physiology of Plants* has been published with an aim to give some insight into the field of stress physiology of Plants. Attempts have been made to highlight different abiotic stresses like water, salt, heavy metals etc and their effects on plants, physiological alterations. Some efforts have also been taken to discuss oxidative stress, its effects and possible protection in plant cells. *Oxidative Stress: The Biology of Oxidative stress in Green Cells: A Review* S K Panda, M Dash. *Abiotic Stress Induced Membrane Damage in Plants: A Free Radical Phenomenon* S Bhattacharjee, A K Mukherjee. The

Lipoxygenases A Review A D Rao K N Devi K Thyagaraju Plant Lipoxygenases K N Devi A D Rao K Thyagaraju Changes in Antioxidants Levels in *Oryza sativa* L Roots subjected to NaCl salinity stress M H Khan M Dash Ksh L B Singha S K Panda Water Stress Studying Plant Responses to Water Stress An Overview R K Kar Salt Stress Effects of Sea Water on Growth of Young Plants of *Prosopis juliflora* sw DC A J Joshi H Hinglajia Physiology of Salt Stress in Plants A Review M Dash S K Panda Heavy Metal Toxicity Stress Role of Nitrogen Nutrition on Chromium Phytotoxicity in wheat S K Panda B N Sahoo H K Patra Chromium Toxicity and Water Stress Simulation Effects in Intact Senescing Leaves of Greengram *Vigna radiata* L var wilczek K851 S K Panda S Mahapatra S K Panda Alterations in Enzyme Activities of Plants under Heavy Metal Ion Stress S D S Murthy S Rajgopal Dr S K Panda Dr Mrs M Dash This book Advances in Stress Physiology of Plants has been published with an aim to give some insight into the field of stress physiology of Plants Attempts have been made to highlight different abiotic stresses like water salt heavy metals etc and their effects on plants physiological alterations Some efforts have also been taken to discuss oxidative stress its effects and possible protection in plant cells Oxidative Stress The Biology of Oxidative stress in Green Cells A Review S K Panda M Dash Abiotic Stress Induced Membrane Damage in Plants A Free Radical Phenomenon S Bhattacharjee A K Mukherjee The Lipoxygenases A Review A D Rao K N Devi K Thyagaraju Plant Lipoxygenases K N Devi A D Rao K Thyagaraju Changes in Antioxidants Levels in *Oryza sativa* L Roots subjected to NaCl salinity stress M H Khan M Dash Ksh L B Singha S K Panda Water Stress Studying Plant Responses to Water Stress An Overview R K Kar Salt Stress Effects of Sea Water on Growth of Young Plants of *Prosopis juliflora* sw DC A J Joshi H Hinglajia Physiology of Salt Stress in Plants A Review M Dash S K Panda Heavy Metal Toxicity Stress Role of Nitrogen Nutrition on Chromium Phytotoxicity in wheat S K Panda B N Sahoo H K Patra Chromium Toxicity and Water Stress Simulation Effects in Intact Senescing Leaves of Greengram *Vigna radiata* L var wilczek K851 S K Panda S Mahapatra S K Panda Alterations in Enzyme Activities of Plants under Heavy Metal Ion Stress S D S Murthy S Rajgopal Electrical Potentials in Biological Membrane Transport E. Heinz, 2013-03-08 The material of this volume was originally planned to be incorporated in the preceding monograph Mechanics and Energetics of Biological Transport A separate and coherent treatment of the variety of bioelectrical phenomena was considered preferable mainly for didactic reasons Usually the biologist has to gather the principles of bioelectricity he needs from different sources and on different levels The present book intends to provide these principles in a more uniform context and in a form adjusted to the problems of a biologist rather than of a physicist or electrical engineer The main emphasis is put on the molecular aspect by relating the bioelectrical phenomena such as the membrane diffusion potentials pump potentials or redox potentials to the properties of the membrane concerned and as far as possible to specific steps of transport and metabolism of ions and nonelectrolytes Little space is devoted to the familiar and widely used representation of bioelectrical phenomena in terms of electrical networks of equivalent circuits with batteries resistances capacities etc In order to elucidate the basic principles the formal treatment is kept as simple as

possible using highly simplified models based on biological systems The corresponding equations are derived in two ways kinetically i.e. in terms of the Law of Mass Action as well as energetically i.e. in terms of Nonequilibrium Thermodynamics

Hormones, Receptors and Cellular Interactions in Plants C. M. Chadwick, D. R. Garrod, 1986-02-06 This book takes a broad look at the current status of research on receptors in higher and lower plants It starts with a discussion of some hormone receptors auxins ethylene and gibberellin in higher plants and then considers the role of cyclic AMP and its receptors in the slime mould Dictyostelium

Molecular Biology, Biochemistry, and Biophysics, 1975

Innovations in Biotechnology Eddy C. Agbo, 2012-02-17 Innovations in Biotechnology provides an authoritative crystallization of some of the evolving leading edge biomedical research topics and developments in the field of biotechnology It is aptly written to integrate emerging basic research topics with their biotechnology applications It also challenges the reader to appreciate the role of biotechnology in society addressing clear questions relating to biotech policy and ethics in the context of the research advances In an era of interdisciplinary collaboration the book serves an excellent indepth text for a broad range of readers ranging from social scientists to students researchers and policy makers Every topic weaves back to the same bottom line how does this discovery impact society in a positive way

Connective Tissue M.B. Mathews, 2012-12-06 This book deals primarily with the principal extracellular macromolecules of animal connective tissues It attempts to answer some general questions about the biological organization of the tissues What is the nature of this organization at various dimensional levels What functions does the organization serve How has it evolved I have given major emphasis to the structures and properties of the macromolecular components of extracellular matrices from a wide range of invertebrates and vertebrates In doing so however I have treated cursorily many important aspects of connective tissue biology that appeared to be only indirectly relevant to the principal questions asked On the other hand I have not hesitated to search for broad biological principles outside the prevailing conceptual boundaries of animal connective tissues and the lower molecular dimensional levels The numerous speculations presented will I hope stimulate the reader to further thought and investigation Acknowledgements My previously unpublished data that have been included in this volume could not have been obtained without the generous gifts of specimens and other assistance by a number of individuals and institutions These are Dr G BERENSON of Louisiana State University Drs W P BRAKER and D ZUMWALD of the Shedd Aquarium Dr S H CHUANG of the University of Singapore Dr L G CLARK and Mr U M VARELA DIAZ of the University of Pennsylvania the Government of Nicaragua Dr E CLARK of Cape Haze Marine Laboratories Mr C E

Sensory Reception Y.A. Vinnikov, 2012-12-06 This book presents a distillation of many years of investigation by the author and his associates on the problem of sensory reception Both our own data and data from the scientific literature on the electron microscopy cytochemistry biochemistry and electrophysiology of the organs of vision taste smell hearing and gravitation are presented to show that the evolution of the sense organs of all animals on our planet is based on a receptor cell equipped with a motile antenna a biological recorder of information concerning certain

types of energy reaching the animal from the environment The conversion or encoding of this energy into information is effected with the aid of special protein molecules positioned in the plasma membrane of the antennae The action of the unit of energy of a stimulus on such a specific protein molecule causes a change of shape and this is the basis of the trigger mechanism of reception leading to the stimulation of the receptor cell and the transmission of the information encoded in this cell in the form of nerve impulses to the central nervous system The present monograph summarizes over 30 years of working experience by the author and his associates in the field of evolution of sense organs Material is used here from his earlier monographs The Retina of the Eye Vertebrates 1947 The Morphology of the Organ of Smell 1957 The Organ of Corti Its Histophy siology and Histochemistry 1964 written jointly with L K **Nitrogen Cycle** Jesus Gonzalez-Lopez,Alejandro Gonzalez-Martinez,2021-07-22 Anthropogenic activity has clearly altered the N cycle contributing among other factors to climate change This book aims to provide new biotechnological approach representing innovative strategies to solve specific problems related to the imbalance originating in the N cycle Aspects such as new conceptions in agriculture wastewater treatment and greenhouse gas emissions are discussed in this book with a multidisciplinary vision A team of international authors with wide experience have contributed up to date reviews highlighting scientific principles and their environmental importance and integrating different biotechnological processes in environmental technology Research Grants Index National Institutes of Health (U.S.). Division of Research Grants,1970 **Advanced Microbial Biotechnologies For Sustainable Agriculture, Volume II** Ying Ma,Helena Freitas,Christopher Rensing,Miroslav Vosatka,2022-10-19
Research Awards Index ,1982

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