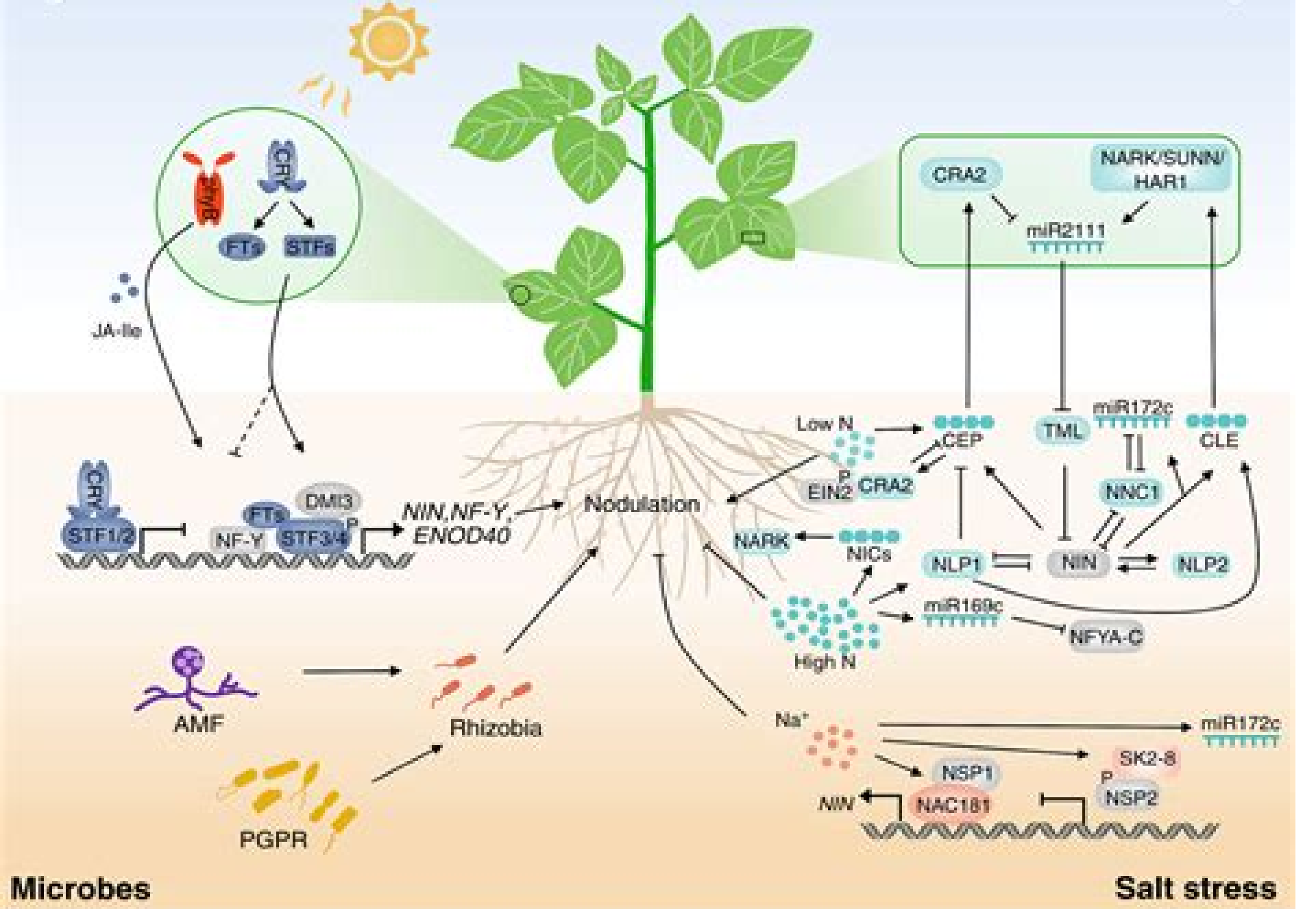




Symbiotic Nitrogen Fixation In Plants

G.H. Elkan, R.G. Upchurch



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Symbiotic Nitrogen Fixation in Plants P. S. Nutman, 1976-02-26 Genetical aspects and taxonomy Quality of legume inoculants Field experiments on nitrogen fixation by nodulated legumes Legume nitrogen fixation and the environment Nitrogen fixing symbioses in non leguminous plants **Biological nitrogen fixation in forest ecosystems: foundations and applications** John C. Gordon, C.T. Wheeler, 1983-09-30 Silvicultural systems and biological nitrogen fixation Morphology of nitrogen fixers in forest ecosystems Taxonomy and distribution of non legume nitrogen fixing systems Isolation and culture of nitrogen fixing organisms Wheeler biochemical physiological and environmental aspects of symbiotic nitrogen fixation Analysis of nitrogen fixation Agricultural and horticultural systems implications for forestry Nitrogen fixing plants in forest plantation management Nitrogen fixation in North American forestry research and application Application of biological nitrogen fixation in European silviculture Nitrogen fixation in Southeast Asian forestry research and practice Biological nitrogen fixation in forestry research and practice in Australia and New Zealand Symbiotic Nitrogen Fixation P. Graham, Michael J. Sadowsky, Carroll P. Vance, 2012-12-06 During the past three decades there has been a large amount of research on biological nitrogen fixation in part stimulated by increasing world prices of nitrogen containing fertilizers and environmental concerns In the last several years research on plant microbe interactions and symbiotic and asymbiotic nitrogen fixation has become truly interdisciplinary in nature stimulated to some degree by the use of modern genetic techniques These methodologies have allowed us to make detailed analyses of plant and bacterial genes involved in symbiotic processes and to follow the growth and persistence of the root nodule bacteria and free living nitrogen fixing bacteria in soils Through the efforts of a large number of researchers we now have a better understanding of the ecology of rhizobia environmental parameters affecting the infection and nodulation process the nature of specificity the biochemistry of host plants and microsymbionts and chemical signalling between symbiotic partners This volume gives a summary of current research efforts and knowledge in the field of biological nitrogen fixation Since the research field is diverse in nature this book presents a collection of papers in the major research area of physiology and metabolism genetics evolution taxonomy ecology and international programs 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 *Current Issues in Symbiotic Nitrogen Fixation* G.H. Elkan, R.G. Upchurch, 2012-12-06 In the 100 years since the legume Rhizobium symbiotic nitrogen fixation interaction was first described interest in this field has grown rapidly The types of studies have been cyclical in nature involving a cross section of disciplines The availability of cheap nitrogenous fertilizers caused much of the biological nitrogen fixation research to become more theoretical in the developed world The high cost of energy coupled with environmental concerns and the interest in sustainable agriculture has stimulated research in symbiotic nitrogen fixation The development of modern genetic techniques has resulted in interdisciplinary research on plant microbe interactions controlling nitrogen fixation This has resulted in a better understanding of environmental factors influencing the nodulation process chemical signalling between the symbiotic partners and the nature of the specificity between host plant and microsymbiont This volume summarizes the diverse research efforts in biological nitrogen fixation by presenting a collection of papers in the areas of physiology and metabolism taxonomy and evolution genetics and ecology 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 **The Biochemistry of Symbiotic Nitrogen Fixation** Perry William Wilson, 1940 Physiological Limitations and the Genetic Improvement of Symbiotic Nitrogen Fixation F. O'Gara, S. Manian, J.J. Drevon, 1988-05-31 Rhizobium species involved in root nodule formation on legume plants are one of the best known groups of micro organisms The Rhizobium legume symbiosis continues to be of strategic importance particularly in the context of food production As the world population grows it is also necessary to have new developments taking place in crop improvement The development and application of new technologies in biological sciences over the past number of years have made the entire area of plant microbial interaction an exciting and challenging research area to be involved in In view of the importance of symbiotic nitrogen fixation it is not surprising that it still represents one of the priority areas for commercial development in agricultural biotechnology Since this symbiosis involves an association between procaryotic and eucaryotic partners it requires of necessity a coordinated and interdisciplinary approach It was in this spirit that this international conference was organised The scientific programme was designed to focus on physiological limitations affecting symbiotic nitrogen fixation and the potential for overcoming such limitations using genetic technologies Participants were drawn from contractants of the EEC DGVI Energy in Agriculture nitrogen fixation programme The scientific programme was also supplemented with invited scientists from Europe and North America to provide appropriate

expertise on the various conference topics

International Biological Programme Symbiotic Nitrogen Fixation in Plants Nutman P. S., 1973 **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_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. 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.

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