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Genetics And Regulation Of Nitrogen
The implied mechanism for regulation resembles the general bacterial paradigm for repression, but contrasts with well-known mechanisms of nitrogen regulation in bacteria, which occur by activation. Genes in the nitrogen regulons include those for nitrogen fixation, glutamine synthetase, (methyl)ammonia transport, the regulatory protein GlnB, and ammonia-dependent NAD synthetase, as well as a gene of unknown function.

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Genetics and Regulation of Nitrogen-Fixing Bacteria This book is the second volume of a seven-volume series, which covers all fields of research related to nitrogen fixation - from basic studies through applied aspects to environmental impacts.

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The nif genes are regulated by the nifLA operon. The nitrogen regulators NtrC (= GlnG), and NtrB determine whether or not the nifLA operon is expressed (depending on the presence of ammonia or organic nitrogen). In the absence of ammonia or organic nitrogen the NtrC protein is phosphorylated by the NtrB protein.

Biological Nitrogen Fixation and its Genetic Engineering ...
1. Annu Rev Microbiol. 1981;35:207-35. Genetics and regulation of nitrogen fixation. Roberts GP, Brill WJ. PMID: 7027900 [PubMed - indexed for MEDLINE]

Genetics and regulation of nitrogen fixation.
Nitrogen fixation is regulated by nif regulon, which is a set of seven operons which includes 17 nif genes. Nif genes have both positive and negative regulators. Some of nif genes are: Nif A, D, L,K, F,H S,U,Y,W,Z.

5.15E: Genetics and Regulation of N ₂ Fixation - Biology ...
Abstract. In the fungi, nitrogen metabolism is controlled by a complex genetic regulatory circuit which ensures the preferential use of primary nitrogen sources and also confers the ability to use many different secondary nitrogen sources when appropriate. Most structural genes encoding nitrogen catabolic enzymes are subject to nitrogen catabolite repression, mediated by positive-acting transcription factors of the GATA family of proteins.

Genetic regulation of nitrogen metabolism in the fungi.
Nitrogen is an essential macronutrient for plant growth and basic metabolic processes. The application of nitrogen-containing fertilizer increases yield, which has been a substantial factor in the green revolution 1. Ecologically, however, excessive application of fertilizer has disastrous effects such as eutrophication 2. A better understanding of how plants regulate nitrogen metabolism is critical to increase plant yield and reduce fertilizer overuse.

Transcriptional regulation of nitrogen-associated ...
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Nitrogen is one of the most important essential nutrient sources for biogenic activities. Regulation of nitrogen metabolism in microorganisms is complicated and elaborate. For this review, the yeast Saccharomyces cerevisiae was chosen to demonstrate the regulatory mechanism of nitrogen metabolism because of its relative clear genetic background.

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Regulation of Sensing, Transportation, and Catabolism of ...
Genes in the nitrogen regulons include those for nitrogen fi xation, glutamine synthetase, (methyl)ammonia transport, the regulatory protein GlnB, and ammonia- dependent NAD synthetase, as well as a gene of unknown function.

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