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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

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Genetics And
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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Methanococcus ...

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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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Regulation of

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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).

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In the absence of ammonia or organic nitrogen the NtrC protein is phosphorylated by the NtrB protein.

Biological Nitrogen Fixation Origins Applications Genetic Engineering

...

1. Annu Rev Microbiol.

1981;35:207-35.

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regulation of
nitrogen fixation.

Roberts GP, Brill WJ.

PMID: 7027900

[PubMed - indexed
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regulation of
nitrogen fixation.

Nitrogen fixation is
regulated by nif
regulon, which is a

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Genetics And

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.

Applications

5.15E: Genetics and
Regulation of N
Fixation - Biology ...

Abstract. In the fungi,
nitrogen metabolism

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Regulation Of
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

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Genetics And

catabolic enzymes

are subject to

nitrogen catabolite

repression, mediated

by positive-acting

transcription factors

of the GATA family of

proteins.

Applications

Genetic regulation of

nitrogen metabolism

in the fungi.

Nitrogen is an

essential

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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

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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

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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

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clear genetic
background.
Nitrogen
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Sensing, Bacteria
Transportation, and
Catabolism of ...
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In the fungi, nitrogen
metabolism is
controlled by a
complex genetic
regulatory circuit
which ensures the

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Regulation Of
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

Genetic regulation of

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nitrogen metabolism
in the fungi.
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

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cerevisiae was
chosen to
demonstrate the
regulatory
mechanism of
nitrogen metabolism
because of its relative
clear genetic
background. Current
opinions on the
regulation processes
of nitrogen
metabolism in *S.*
cerevisiae, including

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nitrogen sensing,
transport, and
catabolism, are ...
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Genes in the nitrogen
regulons include
those for nitrogen
fixation, glutamine
synthetase,
(methyl)ammonia

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transport, the

regulatory protein

GlnB, and ammonia-
dependent NAD

synthetase, as well as

a gene of unknown
function.

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