

Structure, function and regulation of modulation genes of Rhizobium leguminosarum.

University of East Anglia - Cascade regulation of nif gene expression in Rhizobium meliloti



Description: -

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Genetics of Diazotrophs

This finding has not been replicated elsewhere, and its significance remains unclear.

The Structure and Regulation of the Nodulation Genes of Rhizobium Leguminosarum

In Rlv3841, a fixABCX operon is found directly upstream of nifA, suggesting such a read-through NifA auto-activation mechanism.

Is the fur gene of Rhizobium leguminosarum essential?

The mutations RLgpxA and RLgshR were further combined to construct double mutant as described below.

The Rhizobium leguminosarum nodulation gene nodF encodes a polypeptide similar to acyl

Characterization of the Rhizobium leguminosarum biovar phaseoli nifA gene, a positive regulator of nif gene expression.

Insight into the structure, function and conjugative transfer of pLPU83a, an accessory plasmid of Rhizobium favelukesii LPU83

In culture, the double hfxL mutant severely reduced this microaerobic induction, resulting in minimal expression of fixNOQP 10 and 17% of WT fixNOQP 9 expression. Given that it was impossible to inactivate fur completely above, this indicates that the low level of fur expression still found in strain 8401pRL1JI is sufficient to confer viability.

Frontiers

Though most of the roles are unknown, they are thought to required for gene expression under the different environmental conditions faced by the microbe. Delgado MJ, Bedmar EJ, Downie JA.

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