

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 *hfixL* 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 be required for gene expression under the different environmental conditions faced by the microbe. Delgado MJ, Bedmar EJ, Downie JA.

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