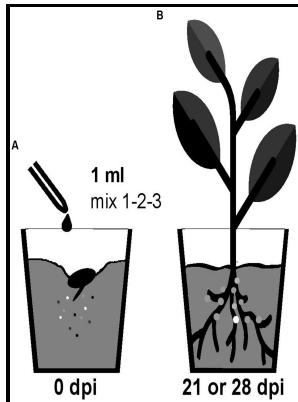


Studies of mutants of *Rhizobium leguminosarum*.

University of East Anglia - *Rhizobium leguminosarum exoB* mutants are deficient in the synthesis of UDP



Description: -

-Studies of mutants of *Rhizobium leguminosarum*

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Notes: Thesis (Ph.D.) - University of East Anglia, School of Biological Sciences, 1978.

This edition was published in 1978



Filesize: 43.810 MB

Tags: #Partial #Characterization #of #the #Extracellular #Polysaccharides #Produced #by #Mutants #of #*Rhizobium* #*leguminosarum* #and #*Rhizobium* #*trifolii*

Glutathione affects the transport activity of *Rhizobium leguminosarum* 3841 and is essential for efficient nodulation

Nature Lond , 256, 407—408. Plant and Soil, 51, 441—445. Involvement of a plasmid in the hairy-root disease caused by *Agrobacterium rhizogenes*.

Nif

Transfer from *Rhizobium japonicum* to *Azobacter vinelandii* of genes required for nodulation. DNA hybridization analysis showed that mutants AS25 and AS28 carried a single copy of Tn5 located in 13. *Rhizobium japonicum* mutants unable to use hydrogen.

Mutation in the pssM gene encoding ketal pyruvate transferase leads to disruption of *Rhizobium leguminosarum* bv. *viciae*

These results suggest neither gpxA gene nor gshR gene has effect on R. Plasmids of Medical, Environmental and Commercial Importance, eds. Can J Bot, 54, 2163—2186.

Effectiveness and competitiveness of spontaneous antibiotic

Naturally occurring insertion mutants of broad host range plasmids. The data showed that the expression of gshB was increased in the gshR mutant and the double mutant compared with the parent strain but there was no statistically significant difference in the gpxA mutant. Excessive production of ROS or impaired ROS detoxification causes oxidative damage to lipid, protein, and DNA.

The genetic analysis of *Rhizobium* in relation to symbiotic nitrogen fixation

In addition, the gpxA and gshR double mutant was severely impaired in rhizosphere colonization and competition.

Glutathione affects the transport activity of *Rhizobium leguminosarum* 3841 and is essential for efficient nodulation

High frequency transfer of nodulating ability between strains and species of *Rhizobium*. Probably as the result of a pleiotropic effect, its root morphology was also changed. Finally, RL0843 codes Ribosomal RNA large subunit methyltransferase E, which is involved in ribosomal RNA maturation, and the loss of GpxA resulted in the differential expression of proteins pRL100106, RL2820, RL1124, and pRL90221 of unknown function.

Mutation in the pssM gene encoding ketal pyruvate transferase leads to disruption of *Rhizobium leguminosarum* bv. *viciae*

Compatibility of the components of nitrogenase from soybean bacteroids and free-living nitrogen-fixing bacteria. Method and results: The amino acid sequence deduced from the pssM gene, localized within the pss polysaccharide synthesis gene locus, was shown to be homologous to several known and putative ketal pyruvate transferases, including ExoV from *Sinorhizobium meliloti* and GumL from *Xanthomonas campestris*. GSH is present in millimolar concentrations in eukaryotic and prokaryotic cells.

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