

# Studies of mutants of *Rhizobium leguminosarum*.

**University of East Anglia - Studies of the Physiological and Genetic Basis of Acid Tolerance in *Rhizobium leguminosarum* biovar trifolii**



## Description:

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

J gen Microbiol, 106, 321—327. Autotrophic growth of H<sub>2</sub>-uptake-positive strains of *Rhizobium japonicum* in an atmosphere supplied with hydrogen gas.

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

Author Contributions GC conceived the idea and designed the experiments. Studies on electron transport and energy-linked reactions using mutants of *Escherichia coli*.

## *Rhizobium leguminosarum* exoB mutants are deficient in the synthesis of UDP

Molec Genet, 174, 203—209.

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

Inoculation ratios are given on the x-axis, with 1 corresponding to 10<sup>3</sup> cfu. The level of reduced GSH was no significant influence in the gpxA mutant, but strikingly increased in the gshR mutant, qRT-PCR was performed to measure the expression level of glutathione synthetase gene gshB. ANU437 nod+ fix-exo-, is a Tn5 mutant of ANU794, but the insertion is not in the symbiotic plasmid.

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

Acta Bot Neer, 19, 573—615. Hup<sup>+</sup> revertants of the mutant strains regained both H<sub>2</sub> uptake ability and nitrogenase activity.

## **Effectiveness and competitiveness of spontaneous antibiotic**

This reveals that changes in GSH metabolism affect the bacterial-plant interactions required for symbiosis.

## **Effectiveness and competitiveness of spontaneous antibiotic**

By sorting the down-regulated proteins, eight are transporter proteins, seven are dehydrogenase, deoxygenase, oxidase, and hydrolase. Genetic studies on Rhizobiophage 16—3. *J gen Microbiol*, 40, 377—383.

### **Nif**

Differentially expressed proteins were defined as having at least a 1.

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