

Nodulation And N Assimilation In Legumes Under Elements Of Technology

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Nodulation And N Assimilation In
Nodulation and nitrate assimilation in some legumes under the influence of elements of cultivation technology were tested in filed and pot experiments. Presowing treatment of seeds with insecticides was studied in soybean, spring forage pea, spring vetch and lucerne. It is an efficient and ecological means of plant protection from pests.

Nodulation and N assimilation in legumes under elements of ...
The transcription of enzymes for N assimilation, carbon utilization, nodule development, etc., is often induced to high levels during nodulation. Originally, some of these genes were thought to be nodule specific and, therefore, their products were given the special name, nodulins.

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Nodulation - an overview | ScienceDirect Topics

Abstract. The impact of phosphorus (P) nutrition on plant growth, symbiotic N₂ fixation, and phosphorus and nitrogen use and their assimilation was investigated in four leguminous plants of the genus *Cytisus*. Plants inoculated with *Rhizobium* strains isolated from plants of the four species growing in the wild were crop under controlled conditions in soils with either low P (5 μ M) or high P ...

Regulatory effect of phosphorus and nitrogen on nodulation ...

Seasonal effects on nodulation and nitrogen assimilation behaviour of seeding vis-À-vis cutting raised plants in shisham (*Dalbergia sissoo*) 2nd International Conference on Plant Science & Physiology June 26-27, 2017 Bangkok, Thailand. Rayees Afzal Mir, S P Chaukiyal and S Nautiyal.

Seasonal effects on nodulation and

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shows the model of nitrogen assimilation and transport of N derived from N₂ fixation and NO₃-absorption in soybean

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plants (Ohyama & Kumazawa, 1978, 1979, 1980abc, 1981ab, 1983, 1984, Ohyama et al ...

(PDF) Effect of Nitrate on Nodulation and Nitrogen ...

nodulation-dependent nitrogen assimilation affects the rhythmic activity in the shoot. Organic nitrogen generated in nodules is transported to the shoot via the

(PDF) The nodulation and nyctinastic leaf movement is ...

Using ^{14}C -labelling technology, Leonard (1969) revealed that nitrogen assimilation in pea and subterranean clover consumes carbohydrates, thereby resulting in a reduction in the amount of carbohydrates supplied to the nodules.

Effects of nitrogen concentrations on nodulation and ...

Analysis of Nodulation and Nitrogen Fixation in UPS1-OE Plants (A) N fixed

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per plant based on the total amount of elemental N in shoot, roots, and nodules of UPS1 overexpressors (OE1 and OE2) and WT plants (n = 7 plants). (B) Left: nodulated roots of UPS1-OE1 and WT plants. Right: nodule number (n = 6 plants). (C) Nodule biomass (n = 6 plants).

Increasing Nitrogen Fixation and Seed Development in ...

The formation of new nodules on legumes must be sensitive to the plant N status signals, such as peptides and miRNAs, but also includes the metabolic negative feedback signals such as the products of N assimilation.

Nitrogen sensing in legumes | Journal of Experimental ...

number of nodules were correlated with N concentration of plants for both genotypes and found as the nodules formation increases the plant N concentration linearly increased and showed close relationship with one

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another. Similarly, the Fe-concentration increases in plant leaves, N-concentration also increases in a similar

THE EFFECT OF MOLYBDENUM AND IRON ON NODULATION, NITROGEN

...

The objectives of this work were to determine the effect of nodulation on dry matter, reduced-N, and phosphorus accumulation and partitioning in above-ground vegetative parts and pods of field-grown soybean (*Glycine max* [L.] Merr. cv Harosoy). ... or continued nitrogen assimilation during podfill would increase nitrogen and dry matter

...

Effect of nodulation on assimilate remobilization in ...

nodules and NA and NR enzyme activity in hairy vetch. This increase in enzyme activity increased N assimilation and led to higher biomass yield. Plants grown in soil that received 0.5 mg Mo kg⁻¹ showed optimal physical and

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biochemical properties in nodules, and these properties may explain the increased N fixation in hairy vetch.

Effect of molybdenum on nodulation, plant yield and ...

N₂ fixation and N assimilation take place, it is proposed that N₂ fixation and the assimilation of fixed N are the source of such inhibitory effects on nodule formation. This hypothesis is explored in this paper where nodulated root systems of *D. trinervis* plants were incubated in an N₂-free atmosphere, suppressing N₂ fixation. The response of

Regulation of nodulation in the absence of N is different ...

In addition to N, molybdenum (Mo) also has a large effect on BNF because the main functions of Mo in the plant are related to N metabolism, specifically the nitrogenase enzyme system present in the bacteroids in nodules and the nitrate reductase enzyme system that is essential for plant N assimilation

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(Dechen & Nachtigall, 2007). Thus, the

Nitrogen and molybdenum fertilization and inoculation of ...

Adding 10 micromolar luteolin to the rhizosphere of HP seedlings increased nodulation, N₂ fixation, total N, and total dry weight but had no effect on nitrate assimilation. These data show that normal levels of flavone nodulation signals in the rhizosphere of HP alfalfa can limit root nodulation, ...

Flavone Limitations to Root Nodulation and Symbiotic ...

While it is established that high levels of combined N inhibit the development and function of legume root nodules, the application of low-level “starter” doses of fertilizer-N is sometimes recommended to improve nodulation and N₂ fixation in the long term. The amounts of combined N which are required to optimize legume symbiosis are poorly defined.

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**Fertilizer-N Effects on N₂ Fixation
by Cowpea and Soybean¹ ...**

Non-Nodulating Soybean in 2015 and Again in 2016 and Again in 2017 Shawn Conley, WI State Soybean and Wheat Extension Specialist. I have received a deluge (pun intended) of questions regarding the overall lack of soybean nodulation and general pale green coloration of the crop.

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