

Nitrogen Fixation

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Recent Publications on Nitrogen Fixation:



- [Large-scale phosphoprotein analysis in *Medicago truncatula* roots provides insight into in vivo kinase activity in legumes.](#)
*Nitrogen fixation in legumes requires the development of root organs...*20th November, 2009
Departments of Chemistry, Biomolecular Chemistry, Agronomy, Biochemistry,- Plant Physiol. 2009 Nov 18. ([DOI Direct Link](#))
- [Enhanced adaptability of *Sesbania rostrata* to Pb/Zn tailings via stem nodulation.](#)
*Sesbania rostrata is wellknown for its stem nodulation, but the roles of...*18th November, 2009
South China Botanical Garden, Chinese Academy of Sciences, Guangzhou- J Environ Sci (China). 2009;21(8):1135-41.
- [\[Identification of differentially expressed genes in different anomalies of *Glycyrrhiza uralensis* by cDNA-AFLP method\]](#)
*OBJECTIVE: To understand the molecular mechanism in genetic variation...*17th November, 2009
School of Traditional Chinese Medicines, Guangdong Pharmaceutical- Zhongguo Zhong Yao Za Zhi. 2009 Jul;34(13):1628-31.
- [Stable isotope probing: Technical considerations when resolving \(15\)N\(2\)-labeled RNA in gradients.](#)
*RNA based stable isotope probing (SIP) facilitates the detection and...*12th November, 2009
Scion, Private Bag 3020, Rotorua 3010, New Zealand.- J Microbiol Methods. 2009 Nov 11. ([DOI Direct Link](#))
- [Nodule-enhanced expression of a sucrose phosphate synthase gene member \(*MsSPSA*\) has a role in carbon and nitrogen metabolism in the nodules of alfalfa \(*Medicago sativa* L.\).](#)
*Sucrose phosphate synthase (SPS) catalyzes the first step in the synthesis...*10th November, 2009
Graduate Program in Molecular Biology, New Mexico State University, Las- Planta. 2009 Nov 8. ([DOI Direct Link](#))
- [Plasmid transfer systems in the rhizobia.](#)
*Rhizobia are agriculturally important bacteria that can form...*10th November, 2009
Department of Biological Sciences, University of Calgary, AB, Canada.- Can J Microbiol. 2009 Aug;55(8):917-27. ([DOI Direct Link](#))
- [Carbon Metabolism and Bacteroid Functioning Are Involved in the Regulation of Nitrogen Fixation in *Medicago truncatula* Under Drought and Recovery.](#)
*Regulation of symbiotic nitrogen fixation (SNF) during drought stress is...*6th November, 2009
- Mol Plant Microbe Interact. 2009 Dec;22(12):1565-76. ([DOI Direct Link](#))
- [Reduced nodulation in alfalfa induced by arsenic correlates with altered expression of early nodulins.](#)
*Arsenic (As) reduces legume nodulation by affecting the first stages of...*3rd November, 2009

- Departamento de Microbiología y Parasitología, Facultad de Farmacia,- J Plant Physiol. 2009 Oct 29. ([DOI Direct Link](#))
- [Timing of morphological and ecological innovations in the cyanobacteria - a key to understanding the rise in atmospheric oxygen.](#)
*Abstract When cyanobacteria originated and diversified, and what their...*30th October, 2009
Department of Geosciences, University of Montana, Missoula, MT, USA.- Geobiology. 2009 Oct 23. ([DOI Direct Link](#))
 - [Deep-sea archaea fix and share nitrogen in methane-consuming microbial consortia.](#)
*Nitrogen-fixing (diazotrophic) microorganisms regulate productivity in...*27th October, 2009
Division of Geological and Planetary Sciences, California Institute of Science. 2009 Oct 16;326(5951):422-6. ([DOI Direct Link](#))
 - [Microbiology. Fantastic fixers.](#)
*Nitrogen-fixing (diazotrophic) microorganisms regulate productivity in...*27th October, 2009
Department of Earth Sciences, Boston University, Boston, MA 02215, USA.- Science. 2009 Oct 16;326(5951):377-8. ([DOI Direct Link](#))
 - [NifA is required for maximal expression of denitrification genes in Bradyrhizobium japonicum.](#)
*Summary In Bradyrhizobium japonicum the napEDABC, nirK, norCBQD and...*21st October, 2009
Department of Soil Microbiology and Symbiotic Systems. Estacion- Environ Microbiol. 2009 Oct 16. ([DOI Direct Link](#))
 - [Function of antioxidant enzymes and metabolites during maturation of pea fruits.](#)
*In plant cells, antioxidants keep reactive oxygen species at low...*14th October, 2009
Departamento de Nutricion Vegetal, Estacion Experimental de Aula Dei,- J Exp Bot. 2009 Oct 11. ([DOI Direct Link](#))
 - [Evidence for Nitrogen Fixation by "Dehalococcoides ethenogenes" Strain 195.](#)
*Genome annotation of the chlorinated ethene-respiring "Dehalococcoides..."*13th October, 2009
726 Davis Hall, Department of Civil and Environmental Engineering,- Appl Environ Microbiol. 2009 Dec;75(23):7551-7555. Epub 2009 Oct 9. ([DOI Direct Link](#))
 - [Elevated CO2 concentration around alfalfa nodules increases N2 fixation.](#)
*Nodule CO(2) fixation via PEPC provides malate for bacteroids and...*10th October, 2009
Department of Crop Sciences, Plant Nutrition, Georg-August-University of- J Exp Bot. 2009 Oct 8. ([DOI Direct Link](#))

Nitrogen Fixation Patents:



- 7451569- [Use of a low nitrogen fertilizer to propagate shoots from a log](#)
- 7494618- [Alloy tool steel](#)
- 7494798- [Bacillus licheniformis chromosome](#)
- 7497901- [Tungstate and molybdate wood preservatives](#)
- 7498173- [Sulfur-oxidizing plant growth promoting rhizobacteria for enhanced canola performance](#)
- 7501006- [Malt extract or spent grain liquor based fertilizer](#)
- 7501556- [Nutritionally enhanced plants](#)
- 7507876- [Eukaryotic translation initiation factor gene regulatory elements for use in plants](#)
- 7510854- [Corynebacterium glutamicum genes encoding metabolic pathway proteins](#)
- 7511130- [Chimeric rice Os-TubA-3 promoter and methods of use](#)

- [7514397- Methods for inhibition of membrane-fusion-associated events, including Hepatitis B virus transmission](#)
- [7491813- Promoter polynucleotides identified from Zea mays for use in plants](#)
- [7491535- Sulfur-oxidizing plant growth promoting rhizobacteria for enhanced canola performance](#)
- [7485461- Cis-acting regulatory elements from Tripsacum dactyloides](#)
- [7456013- Plant centromere compositions](#)
- [7456954- Modulated excitation fluorescence analysis](#)
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- [7470427- Systemic non-nodular endosymbiotic nitrogen fixation in plants](#)
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- [7517687- Sulfur-oxidizing plant growth promoting rhizobacteria for enhanced canola performance](#)
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- [7585665- Apparatus for ultrafinely shattering organic granular substances](#)
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- [7588771- Microorganisms for therapy](#)
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- [7575917- DNA constructs and methods to enhance the production of commercially viable transgenic plants](#)
- [7560626- Promoter sequence obtained from rice and methods of use](#)
- [7557063- Noble metal-free nickel containing catalyst formulations for hydrogen generation](#)
- [7521236- Sulfur-oxidizing plant growth promoting rhizobacteria for enhanced canola performance](#)
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- [7521594- CPC214 gene promoter sequences and methods of use](#)
- [7528246- Actin regulatory elements for use in plants](#)
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- [7534611- Sulfur-oxidizing plant growth promoting rhizobacteria for enhanced canola performance](#)
- [7534612- Sulfur-oxidizing plant growth promoting rhizobacteria for enhanced canola performance](#)
- [7534933- Transgenic plants overexpressing a plant vacuolar H⁺-ATPase](#)
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