

### **the nostoc symbiont of pdf**

Dissertation for the Degree of Doctor of Philosophy in Physiological Botany presented at Uppsala University in 2001 ABSTRACT Paulsrud, P. 2001. The Nostoc Symbiont of Lichens.

### **The Nostoc Symbiont of Lichens - beta.diva-portal.org**

Article (PDF Available) ... Little is known about genomic changes associated with evolutionary transition of Nostoc from free-living to plant symbiont. Here we compared the genomes derived from ...

### **(PDF) Genomic Changes Associated with the Evolutionary**

Nostoc strains isolated from feathermosses are highlighted in blue, in red for *Blasia pusilla* isolates, in green for *N. punctiforme* isolated from cycad and in purple for *Nostoc azollae*, the obligate symbiont of *Azolla filiculoides*.

### **Genomic Changes Associated with the Evolutionary**

The factors responsible for the symbiotic success of Nostoc as a symbiont are not known, but the fact that hosts, symbiotic structures, and physiological roles of the symbiont are so diverse makes specific coevolved adaptations less likely.

### **Fasciclin Domain Proteins Are Present in Nostoc Symbionts**

Nostoc is a genus of cyanobacteria found in various environments that forms colonies composed of filaments of moniliform cells in a gelatinous sheath.

### **Nostoc - Wikipedia**

In all plant associations, the initial structure in which Nostoc is housed is formed in the absence of a symbiont. The symbiotic plant structure is then colonized by hormogonia, which ...

### **The Nostoc symbiont of lichens : diversity, specificity**

The Nostoc Symbiont of Lichens - DiVA 160976/ Nostoc Symbiont of Lichens ... Cyanobacteria belonging to the genus Nostoc have the capacity to ... plants and fungi and with limited economic importance, ...

### **Nostoc Pruniforme - [PDF Document]**

Cryptophycins are isolated from the cyanobacterial symbiont Nostoc sp. ATCC 53789 and Nostoc sp. GSV 224. 73,74 They are potent anticancer agents due to their ability to stimulate cellular microtubule instability, inhibit microtubule assembly, and induce tubulin self-association, resulting in a G2/M phase transition block in the cell cycle. 75,76 The cryptophycin mode of action and cellular ...

### **Nostoc - an overview | ScienceDirect Topics**

This shows that the geographical origin of a lichen specimen does not predict the identity of the Nostoc symbiont, and that the production of detectable amounts of toxins is not restricted to well-defined groups within Nostoc.

### **Cyanobacteria produce a high variety of hepatotoxic**

SYMBIOSES WITH HORNWORTS AND LIVERWORTS 121 The cyanobacterial symbiont in plant symbioses, including the bryophytes, is almost always a member of the genus Nostoc.

## **CYANOBACTERIA IN SYMBIOSIS WITH HORNWORTS AND LIVERWORTS**

Abstract. Nostoc, a genus of filamentous, heterocystous, cyanobacteria, is widely distributed in the free-living state. It is also the most common phycobiont in N<sub>2</sub>-fixing lichens and occurs as the N<sub>2</sub>-fixing symbiont in a small and diverse group of green plants.

### **Azolla and other plant-cyanobacteria symbioses: Aspects of**

One of the dominating proteins in the soluble fraction from the Nostoc symbiont of the lichen *Peltigera membranacea* (Fig. 1a) was not detected on the two-dimensional gel of Nostoc punctiforme (Fig. 1b) and was present at a lower level in the free-living isolate of the *P. membranacea* symbiont (Fig. 1c).

### **Fasciclin Domain Proteins Are Present in Nostoc Symbionts**

new phytol. (1967) 66, 379-388. studies in the physiology of lichens vii. the physiology of the nostoc symbiont of *peltigera polydactyla* compared with cultured and free-living

## **STUDIES IN THE PHYSIOLOGY OF LICHENS**

Sources and culture conditions for symbiont-free *A. punctatus*, symbiotic *A. punctatus*-Nostoc sp. strain 7801 (penicillin treated to remove epiphytic cyanobacteria),

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