
Phylogenetic Analysis Genus Calothrix Shalini Singh Lap

phenotypic variability and phylogenetic relationships of ... - genus calothrix. phylogenetic analysis was congruent with the phenotypic characterization, in which the strains and environmental samples of the tolypothrix and calothrix morphotypes could **phylogenetic analysis of the genus anabaena based on pcr** ... - phylogenetic analysis of the genus anabaena based on pcr fingerprinting anbalagan ezhilarasi* and narayanaswamy anand centre for advanced studies in botany, university of madras, guindy campus, chennai - 600025, india. ... calothrix and fischerella (vioque, 1997) and cylindro-spermopsis (wilson et al., 2000). **isolation and characterization of two cyanobacterial ...** - was higher whereas calothrix sp. showed only 50.14 µg ml⁻¹ molecular and phylogenetic analysis a partial 16s rRNA gene sequences was obtained for both the strains and compared with closely related other nostoclean members comprising of calothrix, microchaete and tolypothrix species from india and other parts of the world **genetic and morphological characterization of rivularia ...** - assigned the marine members to the genus rivularia recent study (sihvonon et al., 2007), analysis of sequences of cyanobacterial cultures and environmental samples belonging to the genera calothrix, rivularia and gloeotrichia from the baltic sea revealed a high level of genetic diversity and overlapping morphologies among phylogenetic groups. **characterization of gloeotrichia ghosei bta 9020 an ...** - phylogenetic analysis was largely consistent which was obtained from 16s rRNA gene sequence analysis. phylogenetic trees were constructed by upgma, maximum-parsimony and neighbour joining and the findings indicate that the genus gloeotrichia is distantly related to the genus calothrix and rivularia. **genetic diversity and molecular phylogeny of cyanobacteria ...** - species level, 72 to genus level, one isolate up to family and 11 up to order level. twelve isolates couldn't be assigned to any taxonomic level. the results of 16s rRNA gene sequences along with the phylogenetic analysis indicated that some cyanobacterial isolates could be accommodated to genus or order level. **dnaadenine methylation of gatc sequences appeared recently ...** - other species, using the phylogenetic tree for bacterial evolution constructed by fox et al. (8). we have detected dam' strains only in cyanobacteria and in the e. coli lineage. in the latter, phylogenetic analysis shows that dam methylation appeared quite recently, i.e., after divergence with the genus pseudomonas. the possible biological roles **is the 16S D23s rRNA internal transcribed spacer region a ...** - of several cyanobacterial species, calothrix parietina, scytonema hyalinum, coelodesmium wrangelii, tolypothrix distorta, and a putative new genus (isolates srs6 and srs70), to investigate the potential of this dna sequence for phylogenetic and population genetic studies. all isolates carried its regions containing the sequences coding **identificación y caracterización molecular de ...** - ical cyanobacteria of the genus nostoc, calothrix, tolypothrix ... a phylogenetic positioning analysis was performed by mafft v.7 alignment and maximum likelihood by raxmlgui. based on phenotypic characteristics, four genera of nostocales were identified: calothrix sp., tolypothrix sp., scytonema sp. and nostoc sp. molecular analysis shows a ... **taxonomic classification of cyanoprokaryotes ...** - taxonomic classification of cyanoprokaryotes (cyanobacterial genera) 2014, using a polyphasic approach ... plete sequences for all 31 proteins were used in the phylogenetic analysis. a maximum-likelihood tree was produced using raxml v. 7 (stamatakis 2006), a cipres super- ... some of the species assigned to the genus will be in the same clade ... **scytonematopsis contorta sp. nov. (nostocales), a new ...** - a spirally contorted trichome within a single filament. the phylogenetic placement of the genus is uncertain. it is associated with both rivularia and calothrix species in the rivulariaceae, and is distant from the scytonemataceae, where it has traditionally been placed. however, the relationship of these taxa is unresolved, as there was very **article efficiency of partial 16s rRNA gene sequencing as ...** - abstract at present, the analysis of 16s rRNA gene sequences is the most commonly used molecular marker for phylogenetic studies of cyanobacteria. however, in many studies partial sequences is used. to evaluate the performance of this molecular marker, phylogenetic relation- **genetic diversity of free living filamentous cyanobacteria ...** - belong to the genera anabaena sp, nostoc sp, calothrix sp, tolypothrix sp and roholitiella sp with nostoc sp being the most abundant among all the cultures segregated in a variety of coal mining habitats. diversity analysis indicated maximum shannon's diversity index (h) in the mining areas and further supported by **structure of the 16 s ribosomal rna of the thermophilic ...** - and phylogenetic analysis annick wilmotte, gert van der auwera and rupert de wachter ... the absence of branchings supports the later assignment to the genus chlorogloeopsu. the absence of heterocysts may be the result of a mutation ... I calothrix pcc7102 ~ pseudanabaena pcc7403 synechococcus pcc6301 ("anacystis nidulans") i a cyanophora ...

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