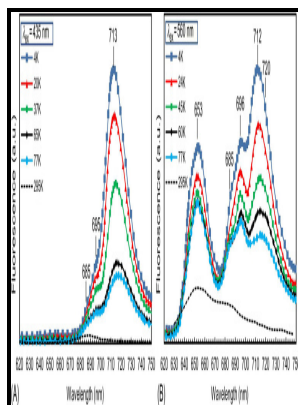


# Sequence determination analysis of expression of two photosynthetic pigment genes from the oceanic *Synechococcus* sp. WH 7803

typescript - Profiles of photosynthetic pigment accumulation and expression of photosynthesis



Description: -

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**N2 Fixation by non**

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**Microsoft Word**

Since it is of interest to characterize the structure of the PSI-LHCI supercomplex in *C.* This series of LH2 complexes allows a systematic exploration of the factors that determine the spectral properties of the bound pigments and control the rate and efficiency of carotenoid-to-bacteriochlorophyll energy transfer. Furthermore, when analyzing the height of grana membrane stacks we conclude that luminal protrusions of adjacent photosystem II complexes in opposing membranes are displaced relative to each other.

**Evolution of Photosynthesis, Annual Review of Plant Biology**

Future research will reveal whether these modules evolved from the same ancestor and thus are homologous, or whether they developed independently by convergent evolution. Moreover, in the examples we tried, the differences between the results of the two flavors of GIZMO - namely PSPH, and MFM mesh-less algorithm - are similar to and, in some comparisons, larger than the differences between the results of GADGET3 and PSPH. Electroporation of FdR1 cells yielded secondary pigment mutant strains FdR1E1 and FdR1E4, which identically exhibited the FdR1 phenotype with significantly reduced levels of phycoerythrin.

**Molecular Basis of Symbiosis**

Here, based on steady state and timeresolved absorption and emission studies of peripheral LH2 antenna complexes isolated from the membrane of the purple bacterium *Rhodobacter sphaeroides*, we present evidence that the absorbing and emitting states of this complex are qualitatively different. Some of the sequences that were identified to originate from a phage, have homologies to proteins of the order Rhizobiales Kaneko et al.

## **N<sub>2</sub> Fixation by non**

In the filamentous strain *Tolypothrix* sp. Abstract: Cyclic nucleotides cAMP and cGMP are ubiquitous signaling molecules that mediate many adaptative responses in eukaryotic cells. Poplar plants were grown hydroponically on 10  $\mu$ M Fe-citrate or Fe-EDTA up to four-leaf stage and then treated with 10  $\mu$ M Cd NO<sub>3</sub> 2 or by withdrawal of the Fe supply up 31 32 to seven-leaf stage.

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