Abstract

Chlamydomonas reinhardtii is a unicellular green alga, which has been used as a reference organism for identifying proteins. Five hundred hypothetical proteins in Chlamydomonas reinhardtii have been sequenced for knowing functions of the proteins in their families. Functions of Five hundred hypothetical proteins in Chlamydomonas reinhardtii were predicted using bioinformatics web tools. The web tools like CDD-BLAST, INTERPROSCAN and PFAM were used for the prediction of functions in the proteins by searching protein databases for the presence of conserved domains. The current study was useful in better knowing the functions of hypothetical proteins in Chlamydomonas reinhardtii and the various regulatory mechanisms, which interact to yield a final output from the system.

References

A Study of Functional Genomics for Unknown Proteins in Chlamydomonas reinhardtii

A Study of Functional Genomics for Unknown Proteins in Chlamydomonas reinhardtii

unmasks proteins potentially involved in photosynthetic function and regulation. Photosynthesis research 106, 3-17.

Index Terms

Computer Science

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Chlamydomonas reinhardtii  Bioinformatics Web Tools  hypothetical proteins
Conserved Domains