

Expression of genetical diversity of *Kappaphycus* sp. Among other algae using bioinformatics tools

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Kappaphycus sp. belongs to the family of red algae and is one of the most important commercial sources of carrageenans. As the 18S gene of the whole DNA codes for the conserved segment in the eukaryotic organisms that speaks about the personal identity of the organisms, these sequences have been used to describe the genetic relation of *Kappaphycus* sp. with that of other algae. The Clustal X and Tree View analysis of these sequences has shown the diversity and convergence in the genetic identity matrix created for the selected reference sequences and the *Kappaphycus* sp. sequences used. This has enabled us to design the genetic identity matrix thus enabling the explanation of the relation that the algae *Kappaphycus* sp. demonstrated with other algae.