

the brown algal origin pdf

origin. Over the next roughly 3 months, they were monitored for algal outgrowth, from which ... Figure 2: Epiphyte of brown algae found on *Macrocystis pyrifera* under the microscope. Furthermore, three new records of *Colpomenia peregrine*, *Punctaria* sp. and *Dictyota* sp.

The Brown Algal Biodiversity of the Falkland Islands Revisited

in both marine and fresh water, 98% of the 6,500 species of red algae are marine. Most of these species occur in the tropics and sub-tropics, though the greatest number of species is temperate. Along the California coast, the species of red algae far outnumber the species of green and brown algae.

RED ALGAE RHODOPHYTA - University of California, Santa Cruz

The algae include the green algal relatives of land plants and a diverse collection of single-celled and multicellular taxa such as the heterokonts, rhodophytes (red algae), cryptophytes, chlorarachniophytes, dinoflagellates, and haptophytes.

Algal Phylogeny and the Origin of Land Plants | Plant

Brown algae belong to the group Heterokontophyta, a large group of eukaryotic organisms distinguished most prominently by having chloroplasts surrounded by four membranes, suggesting an origin from a symbiotic relationship between a basal eukaryote and another eukaryotic organism.

Brown algae - Wikipedia

In any case, the monophyletic origin of embryophytes, and that Charophyceae (Charophyta), especially Coleochaetales and/or Charales, are the closest living algal relatives of land plants is agreed. 4, 28 – 31 This single origin of land plants from charophycean algae is based on a great number of shared common morphological, cytological, ultrastructural, biochemical and, especially, molecular attributes, the existence of which has been demonstrated by numerous studies.

Origin and early evolution of land plants

210 J.A. Coyer et al. / Molecular Phylogenetics and Evolution 39 (2006) 209–222 Serrão et al. (1999) also used ITS sequences, but included several geographically separated specimens of each of 16 species and 6 genera of the family.

A mtDNA-based phylogeny of the brown algal genus *Fucus*

The origin of the red algae has remained an enigma. Historically the Rhodophyta were classified first as plants and later as the most ancient eukaryotic organisms. Recent molecular studies have indicated similarities between red and green plastids, which suggest that there was a single endosymbiotic ...

The origin of red algae: Implications for plastid evolution

The brown algae comprise the class Phaeophyceae, golden-brown algae that range from small filamentous forms to large, complex seaweeds.

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