

THE POSITION OF ALGAE ON THE TREE OF LIFE

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Different problems concerned the evolution of algal chloroplasts are reviewed. Progress in the studies on the classification of eukaryotes and understanding of the position of algae on the Tree of Life are discussed. Currently, among the numerous monophyletic supergroups of eukaryotes, five supergroups contain representatives of algae: Archaeplastida (Glaucocystophyta, Rhodophyta, Prasinodermophyta, Chlorophyta, Charophyta), TSAR (Ochrophyta, Dinophyta, Chlorachniophyta, and photosynthetic *Chromera*, *Vetrella* and *Paulinella*), Haptista (Prymnesiophyta, Rappemonads), Cryptista (Cryptophyta) and Discoba (Euglenophyta). Short diagnoses of the phyla and supergroups containing different phyla of algae are given.

Keywords: algae, evolution, chloroplast, Tree of Life

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