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CORE CONCEPT OF

Group - A Algae - PART I (H)

Vaucheria: Sexual Reproduction

All species of Vaucheria reproduce sexually. Sexual reproduction is oogamous type. It is of rare occurrence in plants growing in flowing water. Most of species are monoecious. They are exclusively fresh water or terrestrial forms. *V. dichotoma* & *V. titorca* which are marine are dioecious. They are form rather specialized sex organs.

The sex organs are not merely modified vegetative cells as in the algae. ~~previously~~ The male sex organ is called the antheridium and the female oogonium.

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position of sex-organs. In the monoecious species the antheridia and oogonia usually occur close to one another at intervals along the same filament arising as lateral outgrowths. The sex organs may be sessile or stalked. Structure of sex-organs-

(*) Antheridia — Typically the mature antheridium is a cylindrical, slender tubular structure. It may be strongly curved like a horn or hooked. In *V. anessa* it is straight and not hooked. The mature antheridium in *V. thureti* and others is reported to be colourless but some others is green. At maturity it contains numerous male gametes or sperms is an extremely minute. Some species are liberated through a single apical aperture and in others (*V. dyb debaryana*) through several apertures.