Endosperm of gymnosperm is ontogenetically similar to angiospermic embryo sac.

In Pinus, the gametophyte is not independent or free living. In gymnosperms, male and female gametophytes are present within sporangia located on sporophyte. In Bryophytes, the sporophyte is not independent or free living.

Male gametes are flagellated in ECTOCARPUS.

Upper oogonium and lower antheridium on the same plant is shown by monoecious plant of Chara.

Fucus shows oogamy and it exhibits diplontic lifecycle. The stored food is Mannitol i.e. Mannitol is the stored food in brown algae.

Gymnosperms are called soft wood spermatophytes because they lock when fibers. Cycas and Adiantum resemble each other in having mobile sperms.

Sporophyte in liverwort is less elaborated that mosses.

Pinus is monoecious, male and tenule cones are bonne of same tree



Wheat - Diplontic Funaria - Haplo-diplontic Polytrichum - Haplodiplontic Ustilago - Haplontic

Riccia, Dryopteris and Cycas have flagellated male gametes.

In gymnosperms, pollen chamber represents a cavity in the ovule in which pollen grains are stored after pollination.

Spore dissemination in some liverworts is aided by elaters.