

Origin of plants

- Plants were on in aquatic conditions
- Migration to land started nearly 400 million years ago

Plants and algae

Their similar qualities are:

- both are multicellular, eukaryotic, photosynthetic and autotrophs
- both have cellulose in their cell walls
- both have chloroplasts with chlorophyll a and b
- both contain high percentage of cellulose in cell walls
- both form phragmoplast during cell division
- both perform phot respiration
- both have similar flagellated sperms
- some nuclear and chloroplast genes also match

> Fresh water green algae (chara) is the closest relative of land plants

Features of all plants

- they are multicellular eukaryotes
- they have autotrophic nutrients
- they prevent from drying up using cuticle (made from waxy substance called cutin)
- its body consists of stem, leaf and roots
- have vascular tissue xylem, phloem and cell wall of cellulose
- they show alternation of generation

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