

Red algae (Rhodophyta)

- multicellular with filamentous and membranous forms
- Lack plasmodesmata
- Mostly in any fresh water mostly rocky shores
- Very few **parenchymatous** = higher tissue with cell wall connections that most tissues made of

Laminarians

- **Parenchymatus** with meristem between stipe + blade
- **Cdd** environments to ensure buoyancy
- gametes can be produce in 1 temp
- **Blades** for p.s. divided
- **Morphology** = **bumpel** shaped cells called sieve in **medulla** that have many **pores** to enable passing of nutrients from 1 p.s. epidermis to medulla.
- **Reproduction** = release **spores** that when germinated fertilize each other

Rhodophyta characteristics

- lack flagella
- store **floridean starch**
- **unattached thylakoids**
- chloroplasts lack endoplasmic reticulum
- May have calcium carbonate walls
- Only 3% fresh water

Eukaryotes evolved by endosymbiosis

- Some eukaryotes adopted lifestyles where mitochondria + chloroplasts no longer needed so sometimes lost the organelle but retained the genes
- Relict organelle

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