Plants 2

- send answer to iClicker Question 12A now.
- Life-cycle review
- Mosses
 - description & life-cycle
- Ferns
 - description & life-cycle
- iClicker Question 12B

Due in lab next week:

- ⇒ Plant Diversity pre-lab (Lab Manual p 87 and on-line)
- ⇒ Eukaryotic Cells lab report

Start thinking about the Phylogenetic Collection Lab (16 phyla) (see Lab Manual and Plants 1 handout for details)

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Reminders
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mitosis: diploid -> more diploid i haploid -> more haploid (drum)

meiosis: diploid -> haploid (clap)

fertilization 2 haploids -> diploid (snap)

* remember what they do
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gametophyte makes gametes; all cells haploid

Spore plant makes spores; all cells diploid

Moss - rhylum bryophyta - most ancestral type of land plant * little or no vascular (circulatory) system : hard to transport theo, minerals, etc throughout plant : O must remain wet

: 1 can't get too tall

brown sporangium (filled with spores)

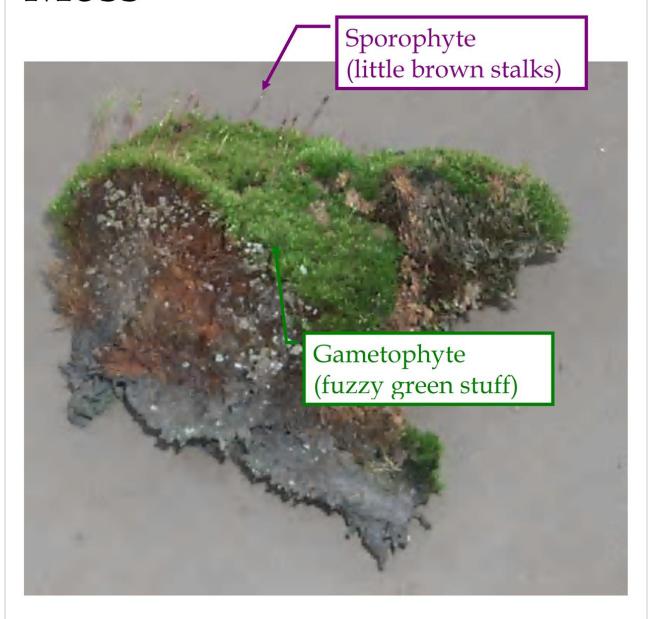
stalk sporophyte # needs 420 for fertilization

leafy thispersed by spores

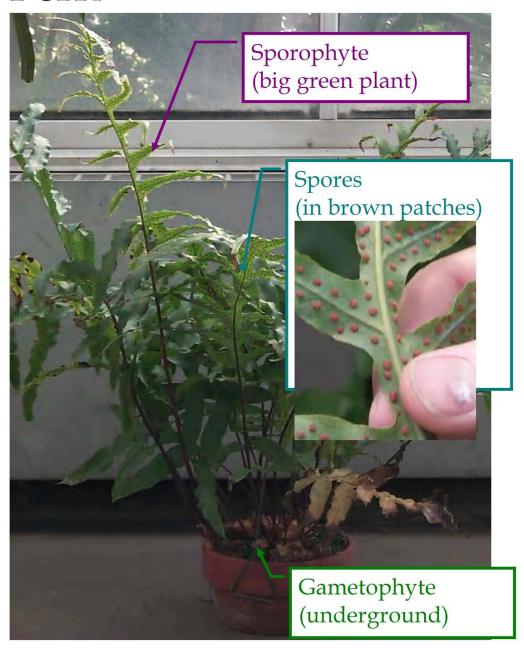
qreen part game tophyte (not seeds)

Qir -rhizoids (not true roots because little or no unsculature)

Moss



Fern



terns: phylum pterophyta

(there are other related "fern allies")
-evolved from moss-like ancestors

New feature": vascular system allows transport of theo, nutrients, is

susars all over plant megaphylls ("leaves") make glucose air Troots. pick us the Enutricuts advantages - can grow taller (shadow competitors) - can live in dryer environments other details - need that for fertilization - dispersed by spores not seeds - coal is mostly dead ferns from ~350 ma - in some ferns, giphytes are either male or female in others male or hermaphrodite of male + female in one plant makes both eggs & sperm

- hormones cause more of when population density is low