

Systematic Botany. Lecture 31

Alexey Shipunov

Minot State University

November 16, 2011

Outline

Questions and answers

Mosses

Classes of Bryophyta

Outline

Questions and answers

Mosses

Classes of Bryophyta

Previous final question: the answer

This is an unfinished key:

1. ... — Bryophyta
- ... — other Vegetabilia

Fill the gaps.

Previous final question: the answer

This is an unfinished key:

- 1. ... — Bryophyta
- ... — other Vegetabilia

Fill the gaps.

- 1. Green, bigger plant is a gametophyte; no roots — Bryophyta
- Bigger plant is a sporophyte; roots present — other Vegetabilia

Mosses

Classes of Bryophyta

Regnum Vegetabilia [⁷*Magnolia*]

Phylum 40. BRYOPHYTA [⁶*Bryum*]*

Subphylum *Hepaticae* [^{5,8}*Marchantia*]

Classis 1(188). *Haplomitriopsida* [⁵*Haplomitrium*]¹¹⁷

2(189). *Marchantiopsida* [⁵*Marchantia*]¹¹⁸

3(190). *Jungermanniopsida* [⁵*Jungermannia*]¹¹⁹

Haplomitrium



Treubia



Marchantia



Blasia



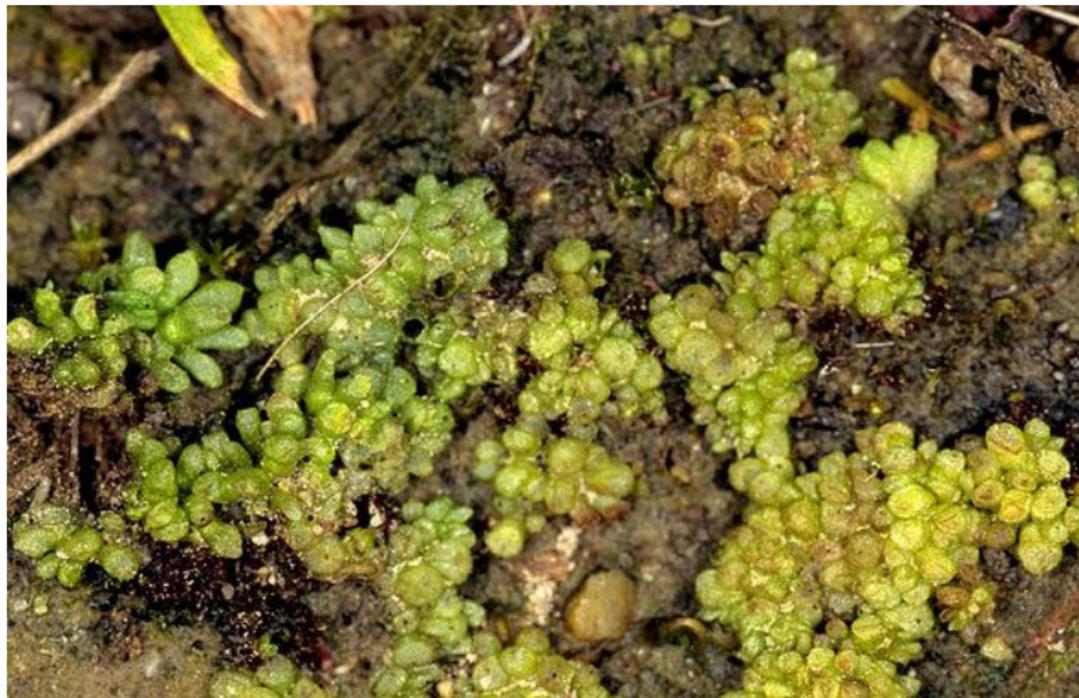
Monoclea



Riccia



Sphaerocarpus



Jungermannia



Fossombronia



Pallavicinia



Pellia



Subphylum *Bryophytina* [^{5.8}*Bryum*]Classis 4(191). *Takakiopsida* [⁵*Takakia*]5(192). *Sphagnopsida* [⁵*Sphagnum*]6(193). *Andreaeopsida* [⁵*Andreaea*]¹²⁰7(194). *Oedipodiopsida* [⁵*Oedipodium*] stat.m8(195). *Polytrichopsida* [⁵*Polytrichum*]*¹²¹9(196). *Bryopsida* [⁵*Bryum*]¹²²

Takakia



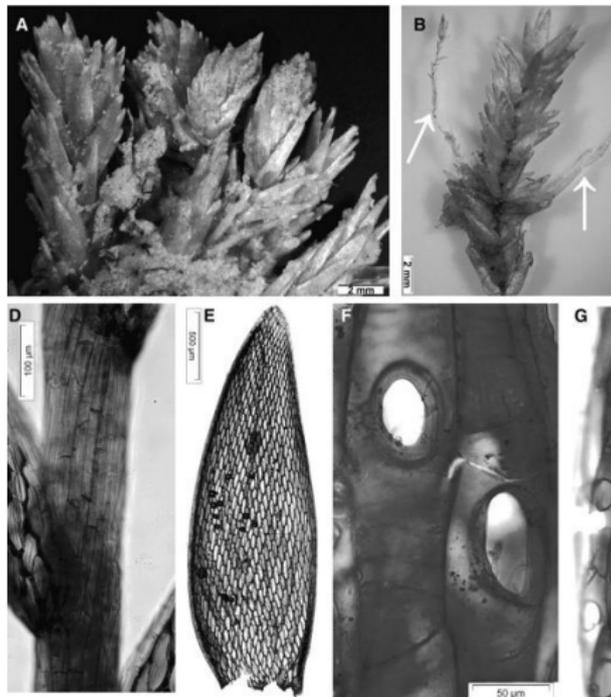
Takakia with sporogons



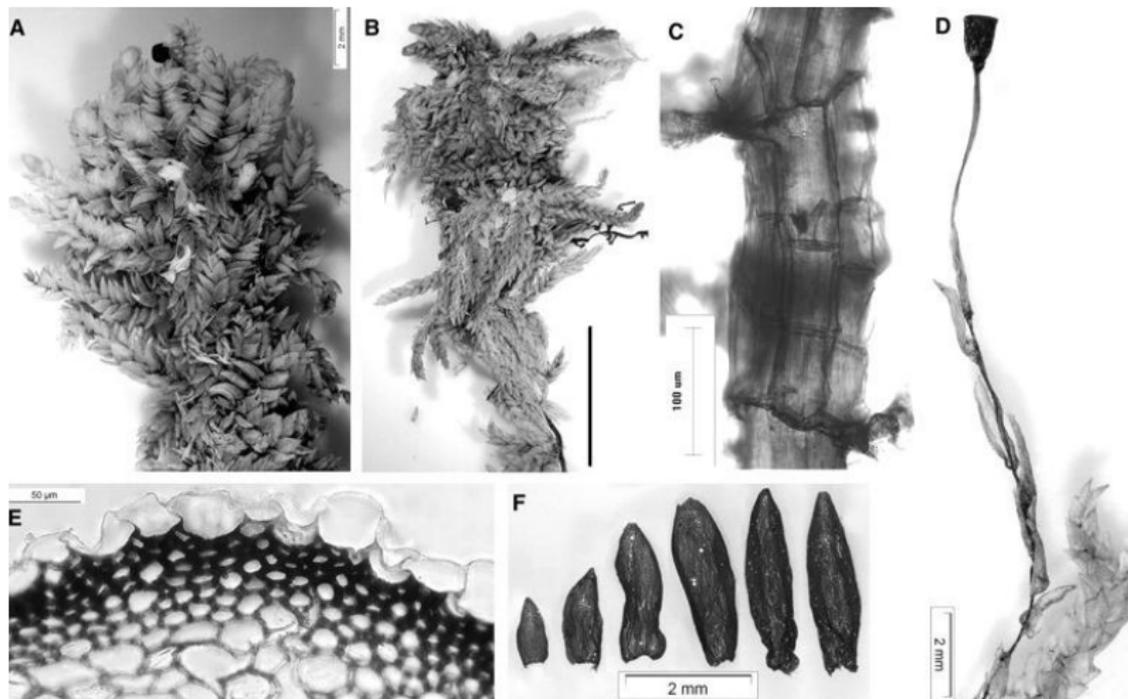
Sphagnum



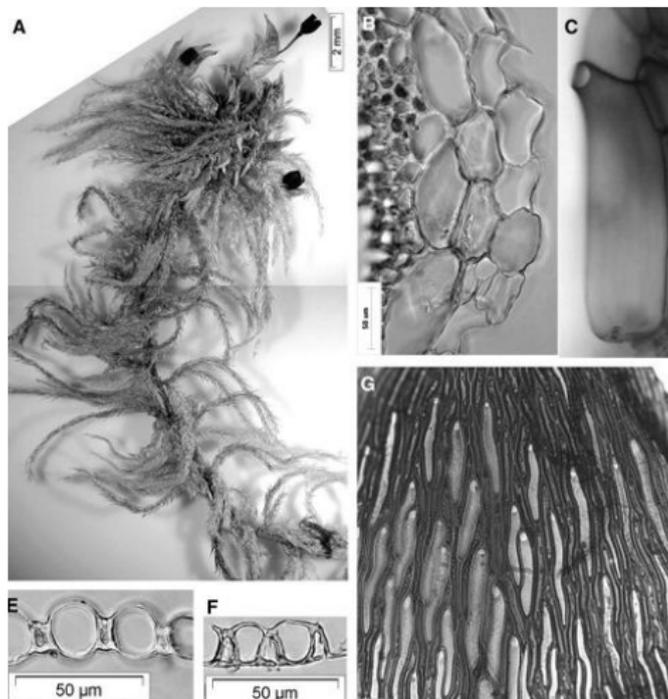
Ambuchanania



Eosphagnum



Flatbergium



Andreaea



Andreaeobryum



Oedipodium



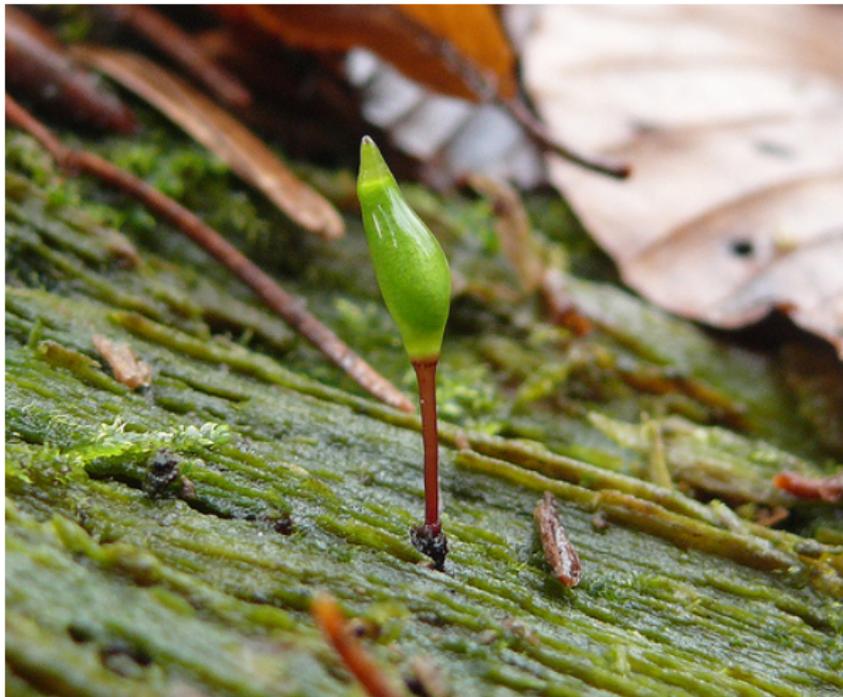
Polytrichum



Tetraphis



Buxbaumia



Schistostega, goblin's gold



Splanchum



Splanchum and fly



Timmia



Subphylum *Anthocerotophytina* [^{5.8}*Anthoceros*]

Classis 10(197). *Anthocerotopsida* [⁵*Anthoceros*]¹²³

Phaeoceros



Notothylas



Final question (2 points)

Final question (2 points)

Why peatmosses are important?

For Further Reading



Margulis and Chapman. 2009.

Kingdoms and domains: an illustrated guide to the phyla of life on Earth. 4th edition.