

Systematic Botany. Lecture 23

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Outline

Questions and answers

Protista

Excavata

Panalgae

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Questions and answers

Protista

Excavata

Panalgae

Previous final question: the answer

What are differences between asco- and basidiomycetes?

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What are differences between asco- and basidiomycetes?

- ▶ Life cycle
- ▶ Type of spores

Protista

Excavata

Protozoan excavates

Subregnum *Excavata* [^{6,8}*Euglena*]

Phylum 24. METAMONADA [⁶*Trichomonas*] s.a.

Classis 1(104). *Preaxostyla* [⁵*Oxymonas*]⁶³

2(105). *Parabasalea* [⁵*Trichomonas*]⁶⁴

3(106). *Fornicata* [⁵*Hexamita*]⁶⁵

Phylum 25. DISCOBA [⁶*Euglena*] s.a.

Subphylum *Jakobozoa*[†] [^{5,8}*Jacoba*]

Classis 1(107). *Malawimonadea* [⁵*Malawimonas*] sed.m.

2(108). *Jakobea* [⁵*Jakoba*]⁶⁶

3(109). *Heterolobosea* [⁵*Naegleria*]⁶⁷

Algal excavates

Subphylum *Euglenozoa* [^{5.8}*Euglena*]⁶⁸

Classis 4(110). *Euglenophyceae* [⁵*Euglena*]* s.a.⁶⁹

5(111). *Kinetoplastea* [⁵*Bodo*]

Parasitic Kinetoplastea: *Leishmania* (agent of leishmaniasis, distributed by sand flies, mosquito-like dipterans) and *Trypanosoma* (agent of sleeping sickness, distributed by tsetse fly).

Protista

Panalgae

“Small” Cercozoa

Subregnum *Panalgae*[†] [^{6.8}*Fucus*]

Infraregnum Chromobionta [^{6.5}*Fucus*] s.a.

Superphylum *Rhizaria* [^{6.2}*Cercomonas*]

Phylum 26. CERCOZOA [⁶*Cercomonas*] s.a.⁷⁰

Subphylum *Filosea* [^{5.8}*Cercomonas*]

Classis 1(112). *Hemimastigea* [⁵*Spironematella*] i.s.⁷¹

2(113). *Thecofilosea* [⁵*Coelodendrum*]* s.a.⁷²

3(114). *Sarcomonadea* [⁵*Cercomonas*] s.a.⁷³

4(115). *Metromonadea* *Metromonas* s.a.⁷⁴

5(116). *Granofilosea* [⁵*Heliomorpha*]⁷⁵

6(117). *Tremulida* *Tremula*

7(118). *Chlorarachniophyceae* [⁵*Chlorarachnion*]

Final question (2 points)

Final question (2 points)

What are Excavata?

Appendix

For Further Reading

For Further Reading



Margulis and Chapman. 2009.

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