

Systematic Botany. Lecture 21

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Outline

Questions and answers

Protista

Panmycota

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Protista

Panmycota

Previous final question: the answer

Two higher groups of achebacteria

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Two higher groups of archeobacteria

- ▶ E.g., Euryarchaeota and Crenarchaeota etc.

Neighbors of animals (Pr-36)

Regnum Protista [⁷*Euglena*]*³⁰

Subregnum *Panmycota*[†] [^{6,8}*Agaricus*]*

Superphylum *Myconta*[†] [^{6,2}*Agaricus*]* s.a.

Phylum 16. CHOANOZOA [⁶*Codosiga*] s.a.

Classis 1(53). *Filasterea* [⁵*Capsaspora*]³¹

2(54). *Choanomonadea* [⁵*Codosiga*]³²

3(55). *Ichthyosporea* [⁵*Ichthyophonus*]³³

Phylum 17. NUCLEAMYCOTA[†] [⁶*Nuclearia*]

Classis 1(56). *Nucleariidae* [⁵*Nuclearia*]³⁴

2(57). *Fonticulida* [⁵*Fonticula*]

Lower fungi (Pr-35, F-1, F-2, F-3)

Phylum 18. EOMYCOTA[†] [⁶*Mucor*]* s.a.

- Classis 1(58). *Cryptomycetes* [⁵*Rozella*]³⁵
- 2(59). *Chytridiomycetes* [⁵*Chytridiopsis*]³⁶
- 3(60). *Blastocladiomycetes* [⁵*Blastocladium*]
- 4(61). *Kickxellomycetes* [⁵*Kickxella*]³⁷
- 5(62). *Mucoromycetes* [⁵*Mucor*]*³⁸
- 6(63). *Glomeromycetes* [⁵*Glomus*]

Phylum 19. MICROSPORIDIA [⁶*Microsporidium*]

- Classis 1(64). *Microsporea* [⁵*Microsporidium*]³⁹

Primitive Basidiomycota (F-5)—basidial yeasts, smut and rust fungi

Phylum 20. BASIDIOMYCOTA [⁶*Agaricus*]

Subphylum *Ustilagomycotina* [^{5,8}*Ustilago*]

Classis 1(65). *Exobasidiomycetes* [⁵*Exobasidium*]

2(66). *Ustilaginomycetes* [⁵*Ustilago*]

Subphylum *Pucciniomycotina* [^{5,8}*Uredo*]

Classis 3(67). *Pucciniomycetes* [⁵*Uredo*]

4(68). *Atractiellomycetes* [⁵*Atractiella*]

5(69). *Cystobasidiomycetes* [⁵*Cystobasidium*]

6(70). *Agaricostilbomycetes* [⁵*Agaricostilbum*]

Final question (2 points)

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Why fungi may be considered as protists?

For Further Reading



Margulis and Chapman. 2009.

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