

Introduction to Botany. Lecture 24

Alexey Shipunov

Minot State University

October 26, 2011

Outline

- 1 Questions and answers
- 2 Life cycles
 - Life cycle of land plants

Outline

- 1 Questions and answers
- 2 Life cycles
 - Life cycle of land plants

Previous final question: the answer

What is the difference between zygotic and gametic life cycles?

Previous final question: the answer

What is the difference between zygotic and gametic life cycles?

- No diplont *versus* no haplont
- Mostly protists *versus* mostly animals

Life cycles

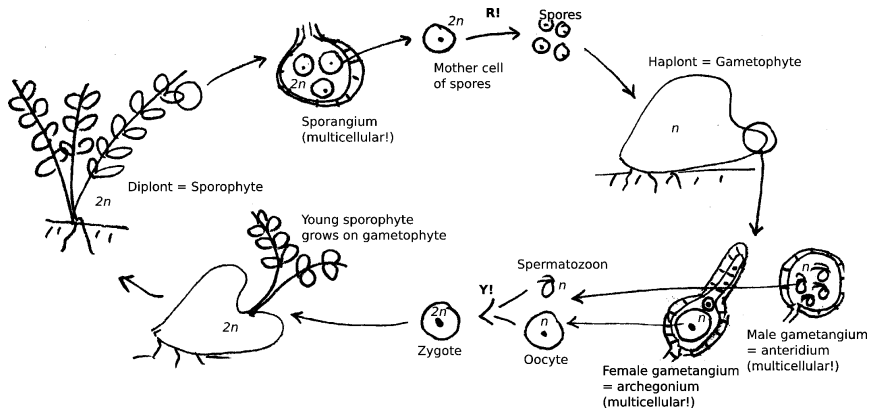
Life cycle of land plants

Life cycle of land plants

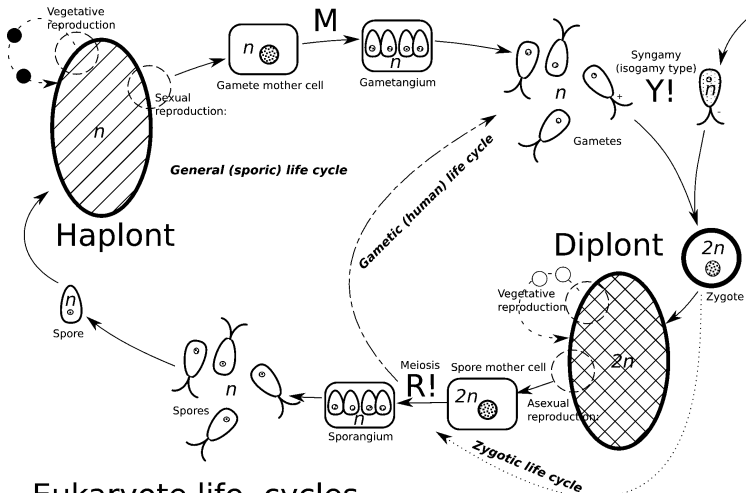
Terms covered:

- Sporophyte and gametophyte
- Archegonium and antheridium
- Spermatozoa and oocyte (egg cell)
- Embryo
- Predominance of sporophyte and/or gametophyte

Life cycle of land plants

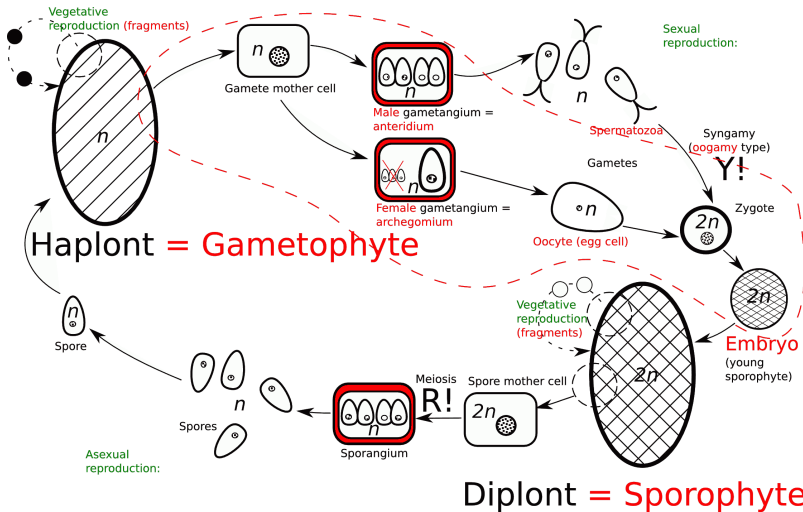


General life cycle



Eukaryote life cycles

Life cycle of land plants: differences



Final question (3 points)

Final question (3 points)

Why diplont is better than haplont?

For Further Reading



J. E. Bidlack, Sh. H. Jansky.
Stern's introductory plant biology. 12th edition.
McGraw-Hill, 2011.
Chapter 12.



Th. L. Rost, M. G. Barbour, C. R. Stocking, T. M. Murphy.
Plant Biology. 2nd edition.
Thomson Brooks/Cole, 2006.
Chapter 12 (skip angiosperm life cycle!).