

Introduction to Botany. Lecture 26

Alexey Shipunov

Minot State University

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Outline

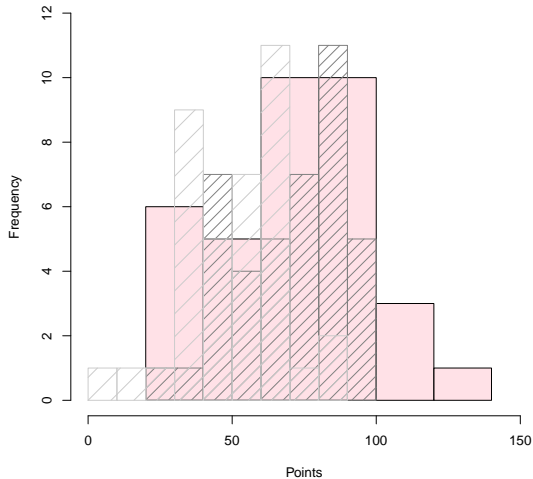
- 1 Exam 3
- 2 Diversity of plants
 - Systematics

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Exam 3

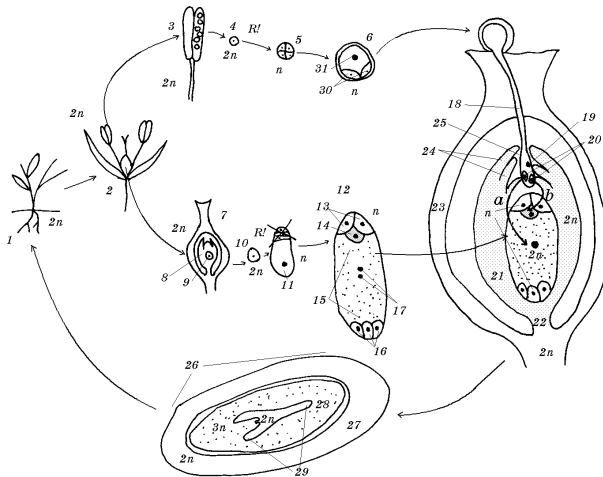
Exams 1-3



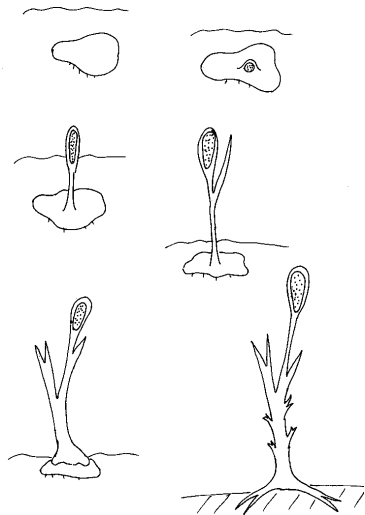
Exam 3 statistics

	e1	e2	e3
Min.	: 3.00	Min. :29.00	Min. : 29.00
1st Qu.:	38.00	1st Qu.:55.00	1st Qu.: 55.00
Median	:53.00	Median :73.00	Median : 71.00
Mean	:51.08	Mean :70.02	Mean : 72.49
3rd Qu.:	63.75	3rd Qu.:86.00	3rd Qu.: 86.50
Max.	:88.00	Max. :97.00	Max. :139.00
NA's	: 6.00	NA's : 3.00	NA's : 9.00

Angiosperm life cycle



Origin of sporic life cycle



Basics of systematics

Terms covered:

- Systematics and taxonomy
- Species, taxonomic hierarchy
- Taxon, rank, classification
- Kingdom, phylum, class, subclass, order, family, genus
- Binomial name, species epithet, reference
- Biological nomenclature, rule of priority, type specimens, standardized endings, starting dates (1753 for botany, 1759 for zoology)
- Shortcuts: “sp.”, “spp.”, “s.l.”, “s.str”, “i.s.”

Examples

		Example 1	Example 2
Kingdom	Regnum	Vegetabilia	Animalia
Phylum	Phylum	Spermatophyta	Chordata
Class	Classis	Angiospermae (Magnoliopsida)	Mammalia
Order	Ordo	Liliales	Primates
Family	Familia	Asparagaceae	Hominidae
Genus	Genus	<i>Chlorophytum</i>	<i>Homo</i>
Species	Species	<i>Chlorophytum comosum</i> (Thunb.) Jacq. 1862	<i>Homo sapiens</i> L.

Species name

Chlorophytum comosum (Thunb.) Jacq. 1862
 —————
Genus name Species epithet First author Second author Year of description

Summary

- Seven main taxonomic categories: kingdom, phylum, class, subclass, order, family, genus, species
- Species name consists of two words, **genus name** and **species epithet**

For Further Reading



Th. L. Rost, M. G. Barbour, C. R. Stocking, T. M. Murphy.
Plant Biology. 2nd edition.
Thomson Brooks/Cole, 2006.
Chapter 18.1–18.3.