

Biogeography. Lecture 12

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Outline

Taxonomy Names

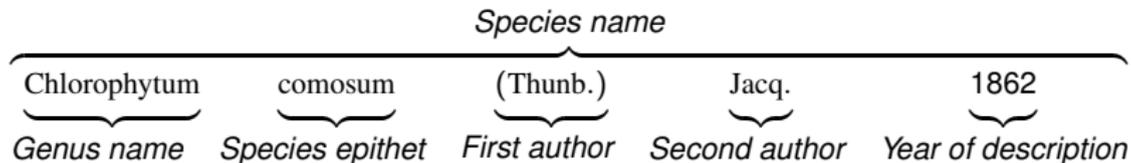


Taxonomy Names



Names and endings examples

English	Latin	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.



Spider plant: name with citation



Synonyms, homonyms and hemihomonyms

How many species? 2,000,000 described; the feasible estimation is 4–5,000,000. There are also 20,000,000 names—most of them are *synonyms* and *homonyms*.

- ▶ **Synonyms** are older names, we can use it but it is better to avoid them
- ▶ **Homonyms** are same names for different taxa (like two *Homo troglodytes*), we must eliminate one of them
- ▶ **Hemihomonyms** are “legal homonyms”, same names under different codes of nomenclature, e.g. *Oenanthe* (bird) and *Oenanthe* (plant).



Miscellanea

- ▶ Intermediate ranks.
- ▶ Subspecies and cultivars. Many subspecies are “geographical races”. Cultivars are result of artificial selection.
- ▶ Shortcuts: “sp.” (one species, unknown omitted), “spp.” (many species), “s. l.” (wide sense), “s. str.” (strict sense), “i. s.” (position unknown)



Taxonomy workflow

- ▶ Collection
- ▶ α -taxonomy: species description
- ▶ β -taxonomy: work with existing descriptions.



For Further Reading



A. Shipunov.

Biogeography [Electronic resource].

2014—onwards.

Mode of access:

http://ashipunov.info/shipunov/school/biol_330



A. Shipunov.

Introduction to Biogeography and Tropical Biology [Electronic resource].

2017—onwards.

Mode of access: [http:](http://)

[//ashipunov.info/shipunov/school/biol_330/intr_biogeogr_trop_biol/intr_biogeogr_trop_biol.pdf](http://ashipunov.info/shipunov/school/biol_330/intr_biogeogr_trop_biol/intr_biogeogr_trop_biol.pdf)

