

# EVOLUTION, VARIATION AND SYSTEMATICS (PART 3): AUTHORSHIP IN SCIENTIFIC NAME



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# AUTHORSHIP

**Authors** are the name of the person who first validly published the name.

Rosaceae Jussieu


Conostylideae Lindley

*Mohavea* A. Gray

*Calamus javensis* Blume

# AUTHORSHIP IN SPECIES NAME REVISION

*Machaeranthera juncea* (Greene) Hartman



Published the  
species for the  
first time; written  
in parentheses

**Greene** originally authored the *juncea* species, then  
revised by **Hartman**

# WHAT IS A BASIONYM?

The “name bearing” name.

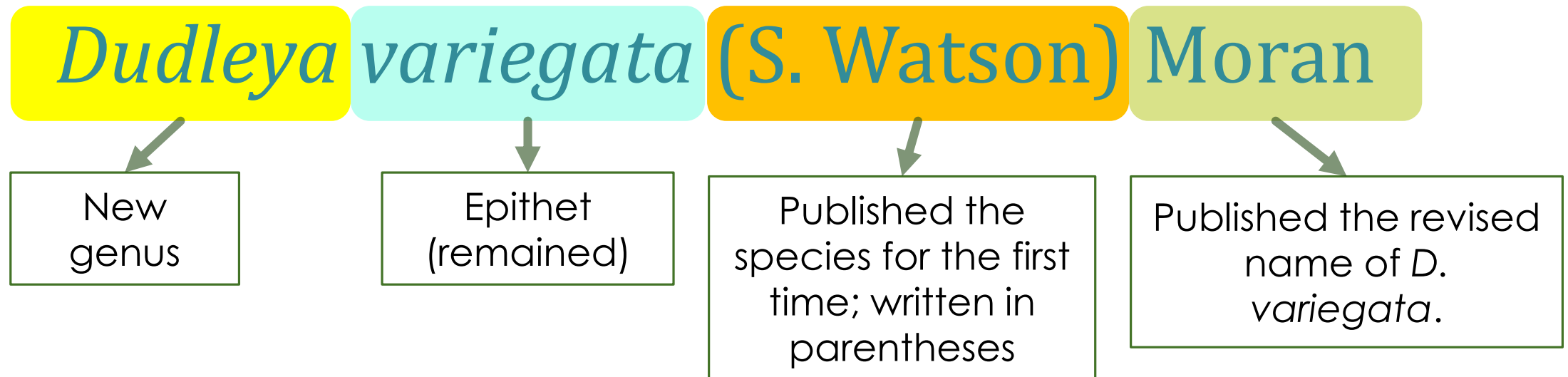
The original (possibly now rejected) name,  
part of which (the epithet) has been used in a  
new combination.

## Author(s) in parentheses?

Person(s) who named basionym. Retained!

# BASIONYM

E.g., *Sedum variegata* S. Watson was transferred to the genus *Dudleya* by Moran, new species name is:



[Note: *Sedum variegata* S. Watson is the basionym]

# BASIONYM

E.g., *Muhlenbergia shepherdii* (Vasey) Swallen was transferred to *Blepharoneuron* by P. M. Peterson & Annable, new name:

*Blepharoneuron* *shepherdii* (Vasey) P. M. Peterson & Annable

New  
genus

Epithet  
(remained)

Published the species  
for the first time; written  
in parentheses

Published the revised  
name of *B. shepherdii*.

No parentheses

[Note: *Sporobolus shepherdii* Vasey is the **basionym**]



# Latin Terms and Abbreviations

1. **aff.** (*affine*) means “related to”
2. **auct. non** (*auctorum non*) means “not of these authors,” referring to a “misapplied” name, such that the type specimen of the name does not fall within the circumscription of the taxon being referred to by that name
3. **cf.** (*confer*) means “compare to”
4. **comb. nov.** (*combinatio nova*) means a new nomenclatural combination
5. **emend.** (*emendatio*) means a correction or amendment
6. **et** is Latin for “and”
7. **ex** is Latin for “from,” meaning validly published by
8. **gen. nov.** (*genus novum*) means a new genus
9. **in** is Latin for “in,” meaning in the publication of
10. **ined.** (*ineditus*) means not validly published
11. **nom. cons.** (*nomen conservandum*) means a conserved name
12. **nom. nov.** (*nomen novum*) means a new name, e.g., proposed as a substitute for an older name (e.g., an illegitimate homonym, in which case the older name serves as the type for the new one)

13. **nom. nud.** (*nomen nudum*) means published without a description or diagnosis, making the name invalid
14. **non** is Latin for “not”
15. **n. v.** (*non visus*) is Latin for “not seen,” typically meaning that authors did not see a specimen, such as a type.
16. **orth. cons.** (*orthographia conservanda*) means a conserved spelling
17. **s.l.** (*sensu lato*) means “in the broad sense”
18. **s.s. or s.str.** (*sensu stricto*) means “in the narrow sense”
19. **sp. nov.** (*species nova*) means a new species
20. **stat. nov.** (*status novus*) means a change in rank, e.g., elevating a varietal name to specific status
21. **typ. cons.** (*typus conservandus*) means a conserved type specimen
22. **typ. des.** (*typus designatus*) means the designation of a type specimen
23. **vide** (*video*) means to cite a reference
24. **×** indicates a hybrid
25. **!** (symbol for *vidi*, “I have seen it”) can mean a) a confirmation of a name, as on an annotation label agreeing with the name on the original herbarium label; or b) indication that a specimen (usually a type) has been seen by the author in a publication
26. **=** a heterotypic synonym, based on a different type
27. **≡** a homotypic synonym, based on the same type

# “sp. nov.” AND “comb. nov.”

*Eryngium pendletonense*, sp. nov.

*Species nova*, a new species published for the first time

*Lithospermum album* (G. L. Nesom) J. Cohen, comb. nov.

*combinatio nova*, a taxon published after being transferred to a new position or rank.

BASIONYM: *Macromeria alba* G. L. Nesom



“ex”

*Microseris elegans* Greene ex A. Gray

Greene originally  
proposed (but not  
validly published)

Gray validly published the  
name *Microseris elegans*

*Thank you*