KEY TO THE GENERA OF ALYSSEAE

The number of ovules per ovary is an important character in distinguishing genera of the tribe. It can easily be obtained from the fruit by counting the number of seeds plus aborted ovules, or by counting the number of funicles or their scars from fruits that shed all of its seeds.

1a. Ovules 1 or 2 per ovary.
2a. Annual herbs; septum absent or reduced to a rim; fruit indehiscent, samaroid, usually with setose,
barbed, or hooked trichomes; ovules 1 per ovary;
2b. Perennial herbs or subshrubs; septum complete; fruit dehiscent, rarely samaroid, without setose,
barbed, or hooked trichomes; ovules 2 per ovary (rarely 1 in some Bornmuellera).
3a. At least some trichomes malpighiaceous (2-rayed, medifixed), other trichomes 3-6-rayed;
fruit inflated or rarely latisepate
3b. All trichomes stellate, (6–)8–24-rayed; fruit latiseptate.
4a. Filaments toothless, unappendaged; petals white; style to 0.7 mm
4b. Filaments usually toothed, appendaged; petals yellow, rarely creamy white; style usually
1–3 mm 19. Odontarrheno
1b. Ovules 4–16 per ovary.
5a. Sepals persistent well after fruit maturity, accrescent; fruit indehiscent or tardily dehiscent;
seeds rugose or verrucose, wingless
5b. Sepals usually caducous well before fruit maturity, not accrescent; fruit dehiscent; seeds smooth or
reticulate, winged, margined, or rarely wingless.
6a. Petals deeply bifid to about middle.
7a. Trichomes a mixture of simple and 2–8-rayed; lateral sepals not saccate at base; Mediterranean
region, one cosmopolitan annual weed
7b. Trichomes exclusively 8–12-rayed; lateral sepals saccate at base; China, Mongolia
6b. Petals obtuse, rounded, truncate, retuse, or emarginate.
7a. Style (5–)6–10 mm long.

8a. Petals purple or crimson red	7. <i>Brachypus</i>
8b. Petals yellow or white, if pinkish then plants subshrubs.	
9a. Filaments minutely appendaged at base; anthers apiculate; cotyledons oblique incu	ımbent;
At least some cauline leaves sinuate or dentate; lateral sepals not saccate at base	4. Aurinia
9b. Filaments unappendaged at base; anthers not apiculate; cotyledons accumbent; cau	lline
leaves entire; lateral sepals saccate at base.	
10a. Fruit inflated.	
11a. Fruit valves thickened, leathery to subwoody, glabrous outside and inside; over	ıles
8–12 per ovary; at least some trichomes malpighiaceous, 2-rayed	2. Alyssoides
11b. Fruit valves papery, pubescent outside and inside; ovules 4 per ovary; all trich	nomes
stellate, 12–20-rayed	11. Degenia
10b. Fruit strongly latiseptate.	
12a. Petals white or rarely pink; ovules 4–8 per ovary; fruit obovate, orbicular, ellip	ptic, or
cochleariform; style rarely to 5 mm, persistent	14. Hormathophylla
12b. Petals yellow; ovules 12–16 per ovary; fruit oblong to narrowly elliptic;	
style 7–10 mm, caducous	23. Resetnikia
7b. Style 0.1–3(–4) mm long.	
13a. Annual herbs.	
14a. Leaves distally denticulate; fruit margin papillate	10. Cuprella
14b. Leaves entire; fruit margin entire.	
15b. Ovules 4–8(–16) per ovary; fruit latiseptate, valves glabrous or with simple	
trichomes and/or papillae	18. Meniocus
15a. Ovules 4 per ovary; fruit fully or unilaterally inflated, valve glabrous or with	
stellate trichomes.	
16a. Petals yellow; infructescene distinctly elongated; fruit slightly inflated	
unilaterally, variously shaped	3. Alyssum
16h Petals white: infructescene subcanitate: fruit fully inflated: globose	24 Takhtajanjella

17a. Trichomes malpighiaceous or mixed with 3–6-rayed ones, simple trichomes absent 6. <i>Bornmuellero</i>
17b. Trichomes (6–)8–24-rayed, sessile or stalked, simple ones present or absent.
18a. All filaments unappendaged, toothless, and wingless.
19a. Fruit ovoid to globose-ovoid, strongly inflated; ovules 8–16 per ovary;
cotyledons incumbent
19a. Fruit obovate, orbicular, elliptic, or cochleariform, strongly latiseptate; ovules 4–8
per ovary; cotyledons accumbent.
20a. Petals yellow, shorter than or subequaling sepals, claw undifferentiated from blade 10. Cuprello
20b. Petals white or pink, distinctly longer than sepals, claw differentiated from blade.
21a. Fruit replum concealed by valve margins; ovules 4 per ovary; nectar glands 1,
confluent, median glands present
21b. Fruit replum visible; ovules 4–8 per ovary; nectar glands 4, 1 on each side of lateral
stamen, median glands absent
18b. At least median or lateral filaments appendaged, winged, or toothed.
22a. Stigma strongly 2-lobed, lobes connivent, decurrent
22b. Stigma entire, rarely slightly 2-lobed, lobes neither connivent nor decurrent.
23a. Replum visible, not concealed by distinct valves margin; anthers apiculate
(except for Alyssum).
24a. Ovules 4–8(–16) per ovary; leaves dentate, sinuate, or pinnatifid, very
rarely entire; cotyledons obliquely incumbent
24b. Ovules 4 per ovary; leaves entire; cotyledons accumbent.
25a. Anthers not apiculate; fruit usually dehiscent, 2-4-seeded; seeds usually winged;
valves not veined; style 0.5–3 mm long
25b. Anthers apiculate; fruit tardily dehiscent, 1-seeded; seeds wingless; valves
reticulate veined; style 2.5–4 mm long
23b. Replum not visible, concealed by connate valves margin; anthers not apiculate.

13b. Perennial herbs, subshrubs, or shrubs.

26a. Fruit indeh	iscent, globose or ovoid, inflated and bladderlike	21. Physoptychis
26b. Fruits dehis	scent, oblong, orbicular to ovate, not inflated.	
27a. Ovules 12	2–16 per ovary; racemes elongated considerably in fruit, brace	teate or
ebracteate; s	style persistent; trichomes 6–8-rayed	12. Fibigia
27b. Ovules 4-	-8 per ovary; racemes slightly elongated in fruit, ebracteate;	style
caducous; tri	ichomes 12–20-rayed	22. Pterygostemon