

- GERMANY:** HESSEN: Fulda, Mittelrode, Hainberg, in Getreidefeld, 16 Jun 1961, *H. Hupke* (LD1992321).
 — HAIMBACH: auf dem Haimberg, 6 Apr 1971, *H. Hupke* (LD1998100).
 — NIEDERSACHEN: Witzenhausen, 16 Jun 1869 (LD1995476); Braunschweig, Rautheim, *Pastor Bertram* (LD1996865).
 — NORDRHEIN-WESTFALEN: auf bebanten Boden, 11 Jul 1885 (LD1995348); Aachen, Auf Kalkfeldern, *V. Monheim* (LD1995540).
 — THÜRINGEN: Eichsfeld, Elisabeth höhe bei Heiligenstadt, 9 Jun 1872, *Zabel* (LD1995412); Erfurt, Gutendorf, 1 Jul 1894, *W. Rudolph* (LD1998164).
- GREECE:** ARGOLIDOS: Navplias, Argolis, E of Adami, cultivated area, high phrygana, hard limestone, 400–500 m, 15 May 1982, *H. Runemark & S. [Linus] Svensson* 48721 (LD1370859).
 — ARKADIAS: MANDINIAS: Mt Menalo, Ostrakina plateau, around the ski centre, 23 May 1989, *Strid & al.* 29649 (LD1369418).
 — CHANION: KIDONIAS: Crete, Chanion, above Xiloskala (the beginning of the Samaria ravine), 1300–1350 m, phrygana, 2 May 1977, *Thomas Karlén* 486 (LD1369238).
 — EVVIAS: KARISTIAS: Skiros, W-slope of mt. Kochilas 1–3 km W-NW of the top, 24 Apr 1971, *S. Snogerup & M. Gustafsson* 42709 (LD1378239).
 — FOKIDOS: DORIDOS: Phocis, the valley of Mornos river c. 1 km S of Levkadition, dry meadow, 600 m, 29 May 1975, *Thomas Landström* 2561 (LD1382258).
 — KIKLADON: Naxou, Naxos, 1–2 km ENE of Tripodes, limestone, garigue 150–220 m, 27 Apr 1957, *Hans Runemark* 1753 (LD1389593); 2 km SSW of Filoti, the valley W of Zeus Oros, garigue - field, 350–300 m, 8 Apr 1957, *Hans Runemark* 897 (LD1389769); W of the main peak of Oros Zeus, in a ravine, 320–450 m, 16 Apr 1958, *Hans Runemark & Sven Snogerup* 5633 (LD1371768); Zeus Oros, limestone - karst, 850 m, 14 May 1957, *Hans Runemark* 2660 (LD1386954); Thiras, Iraklia, Ormos Pegadi, in a valley 5 m above the shore, limestone, 10 Apr 1958, *Hans Runemark & Sven Snogerup* 5368 (LD1367675); Thiras, Amorgos, 1 km W of the village of Kalotaritissa, field with *Vicia sativa*, limestone, 22 Apr 1995, *Hans Runemark* 50491 (LD1771810); Thiras, Amorgos, between Katapola and Chora Amorgos, 16 Apr 1957, *Hans Runemark* 1302 (LD1387014); Thiras, Amorgos, N slope of Krikelas Oros, along the path Langada to Ag. Theodorus, 200–400 m, hard limestone, 14 Apr 1996, *Hans Runemark* 50891 (LD1771746); Thiras, Santorin, between Pyrgos and Ag. Elias, 300–600 m, 18 Apr 1967, *Alfred Hansen* 27118 (LD1387074); Tinou, Tinos, Faneromeni, 0–100 m, 1 Apr 1969, *H. Runemark, A. Strid & M. Gustafsson* 39901 (LD1372368).
 — LASITHIOU: Kriti, slopes of Kaminaki, heavily grazed 1200–1300 m, 9 May 1995, *Per Lassen* 95037 (LD1379798); Anakondas ovan A, i bergen, kalt bete vid väg, 9 May 1995, *Ragnar Ericson* 3110 (LD1382918); Sitia, N- to NW-exposed slope of Mt Spathi, 850–1150 m, 17 May 1962, *Hans Runemark, Sven Snogerup & al.* 18315 (LD1371828).
 — MAGNISIAS: SKOPELOU: N Sporades, Alonnisos, Mt Kouvoli, the NE part, 350–450 m, 23 Apr 1985, *Sven & Britt Snogerup* 3872 (LD1307419); c. 1 km N of the harbour village, low hill with cultivations, 50–100 m, 14 Apr 1985, *Sven & Britt Snogerup & Georgia Kamari* 3636 (LD1369298); the hill called Pigahdi (Tourkovigla) c. 3 km NE of the harbour, 150–345 m, 21 Apr 1985, *Sven & Britt Snogerup* 3817 (LD1382198).

ITALY: LIGURIA: Bordighera, 9 Jun 1898, *C. Bicknell* (LD1979777).

— TOSCANA: Vingone, Firenze, 3 May 1927, *R. Corradi* (LD1973649).
 — LOCO IGNOTO: Etruscia, May 1876, *E. Levier* (LD1994882).

LEBANON: GHAZIR: c. 400 m, feld, 4 Apr 1934, *Partam Busujan* (LD1979841).

PORTUGAL: BAIXO ALENTEJO: Beja, Ervidel nas searas de trigo; solo vermelho cárctaro, 140 m, 2 May 1962, *Manuel da Silva No 2539* (LD1996948).
 — COIMBRA: Pedralha, May 1898, *M. Ferreira* (LD1997268).
 — ELVAS: moissons, May 1917, *G. Sampaio* (LD1995668).

SPAIN: ANDALUSIA: Provincia de Jaén, between Cazorla and Peal, roadsides, 28 May 1962, *Askell Love & Ebbe Kjellqvist N 360* (LD1962833).

TUNISIA: TUNETIA MEDIA: Maktar, 28 May 1896, *S. Murbeck* (LD1978881); In monte Dj Sedj, 9 Jun 1896, *S. Murbeck* (LD1998484).

TURKMENISTAN: Montes Kopet-dagh australi-occidentalis, jugum Palyzan, fauced Bakhtschi, in declinio schistoso, 14 May 1979, *G. Proskuriakova, N. Belianina, G. Porubinovskaya, T. Sofeikova* (MHA0015255); Montes Kopet-dagh australi-occidentalis, jugum Palyzan, fauced Bakhtschi, in declinio schistoso, 14 May 1979, *G. Proskuriakova, N. Belianina, G. Porubinovskaya, T. Sofeikova* (MHA0015256).

Legousia falcata

ALGERIA: ORAN: a Santa Cruz, Broussailles, 14 May 1911, *A. Faure* (LD1990146).
 — LOCO IGNOTO: Maison Carrée, 1 Jun 1855, *G. Durando* (LD1990082).

CYPRUS: Karpaz, in mont. Rhizo Carpasso, 24 Apr 1880, *Sintenes & Rigo* (LD1973265); Berge zw. Rhizo Karpasso und Palaeo Khorī, 24 Apr 1880, *Paul Sintenis No 23* (LD1973329); Carpass; Berge von Kantara, May 1880, *Paul Sintenis No 23* (LD1973457).

FRANCE: PROVENCE-ALPES-CÔTE D'AZUR: Var, Champs dans la Vallée[?] du Fort[?] Rouge près de Toulon , 1865, *Huet* (LD1975313).
 — NICE, Jun 1827 (LD1986065); Jun 1837 (LD1986129).

GREECE: ATTIKIS: Megaridos, mt. Gerania, along the road to the top, 20 May 1975, *Roland von Bothmer* 1097 (LD1322939); Trizinias, Argolis peninsula (Attikis) W of Driopis, limestone cliffs and cultivated area, 18 May 1982, *H. Runemark & S. [Linus] Svensson* 48856 (LD1389533).
 — CHIOU: Chios, rivulet valley SW of Vikion, 4 May 1990, *Sven & Britt Snogerup* 7578 (LD1387239).
 — DODEKANISOU: Rodou, Rhodos 1.3 km NV Apollona på vägen från berget Profitis Ilias till Eleusa (LD1317902); 2 km S Agios Isidoros, 7 May 1990, *Ragnar Ericson* 2900 (LD1382874).
 — EVVIAS: Karistias, Skiros, in the rivulet ravine 0.5–2 km E of Atsitsa, 29 Apr 1985, *Britt & Sven Snogerup* 4006 (LD1378179).
 — KAVALAS: Thasou, Thasos: Limenas, in fruticetis, 19 May 1891, *P. Sintenis & J. Bornmüller* 378 (LD1368098).
 — KIKLADON: Naxos. NW of Akadimi, 4 May 1960 (LD1378176); the rivulet valley 1 km SE of Ag. Theodoro, 20–150 m, at a field, 20 May 1958, *Hans Runemark & Sven Snogerup* 8951 (LD1389773).
 — LAKONIAS: Epidavrou Limiras, Laconia, Paralia Kiparission, hard limestone, cultivation, olive plantation, 6 May 1982, *H. Runemark & S. [Linus] Svensson* 48309 (LD1389833).

- MAGNISIAS: Skopelou, Insula Skopelos, 27 Apr 1896, *Christos Leonis* (LD1320422); Kira Panagia outer part of the Tragorema valley, E of Ormos Hagios Petros (LD1378299); Kira Panagia, the cultivated valley inside the E end of Ormos Hagios Petros, 0.5–1.5 km from the sea 6 May 1988, *Sven & Britt Snogerup 5412* (LD1368218); N. Sporades, Skantzura, 0.5–1 km N of the monastery, grazed area with former fields, c. 50 m, 2 May 1972, *S. Snogerup & M. Gustafsson 44012* (LD1373093); Peristeri, the SE part, 29 Apr 1972, *S. Snogerup & R. v. Bothmer 43816* (LD1320362); the island of Pelerissa SW of Kira Panagia, 26 Apr 1972, *S. Snogerup, D. Phitos, R. v. Bothmer & M. Gustafsson 43595* (LD1320602).
- SAMOU: Samos, 3–4 km W of Maratokampos, 23 May 1962, *Hans Runemark, Sven Snogerup & al. 19214* (LD1375790); 0.5–1 km S of Spatharei, 19 May 2007, *Sven & Britt Snogerup & Per Lassen 22261* (LD1332944).
- ITALY:** LIGURIA: Bordighera, 9 Jun 1898, *C. Bricknell* (LD1969681); Corniglia, Spezia, oliveti supra Prevo, 8 Jun 1924, *Mallagna* (LD1990210); Lerici, 6 Jun 1943, *H. Vallin* (LD1990274).
- SARDINIA: Santa Teresa Gallura, par Tempio, 30 May 1882, *Elisée Reverchon*, (LD1978561).
- TOSCANA, Torre di Capo d'Uomo, Monte Argentario, Grosseto, 20 May 1883, *C.J. Forsyth Major* (LD1969745).
- MOROCCO:** MARRAKECH-TENSIFT-AL HAOZ: High Atlas, Amismiz, c. 1000 m, 1 may 1921, *S. Murbeck* (LD1978625).
- MEKNÈS-TAFILALET, IFRANE: Moyen Atals, vid Source Vittel, c 1600 m, ask-lönn-skog, 23 Jun 1971, *Elsa & Gustav Wängsjö 4314* (LD1978689).
- ORIENTAL: Berkane, Beni Snassen, Vallon du Jegel, Brousailles, 23 May 1928, *A. Faure* (LD1978497).
- TANGER-TÉTOUAN, TÉTOUAN: Tleta Tarhramt, Limestone rocks and ridges C. 11 km E. of Tleta Tarhramt, c. 11 km straightly SW of Fnidek, 550–600 m, 9 Jun 1972, *Rolf Dahlgren & Per Lassen 56-5* (LD1981074).
- LOCO IGNOTO: High Atlas, in convalle fl. Imminen, 29 May 1926, *Harald Lindberg 3074* (LD1978753).
- PALESTINE:** JERUSALEM: Mediae Palestine, Habitat grainfield, 800 m, 20 Apr 1912, *Fred. S. Meyers & J.E. Dismore 2579* (LD1973521).
- SPAIN:** ARAGONIA, PROVINCIA DE ZARAGOZA: Calatayud, in virgultosis mantanis, 11 Jun 1911, *Vicisio*, (LD1983873).
- ANDALUSIA, CÁDIZ: Gaditana, Seraria de Ronda, rarissima inter Siera et Graseloma, col. calcar 500–700 m, *Porta & Rigo No 325* (LD).
- CASTILLA Y LEÓN: 22 May 1908, *H. Elias* (LD1997780).
- TUNISIA:** CENTRE AIN BOU SAADIA: 15 May 1903, *Sv Murbeck* (LD1978817); 16 May 1908, *Sv. Murbeck* (LD1989954); 20 May 1908, *Sv. Murbeck* (LD1990018).
- TUNISE MIDDLE: Entre Kessera x Maktar, 27 May 1896, *S. Murbeck* (LD1990466); In Monte Dj. Serdj, 9 Jun 1896, *S. Murbeck* (LD1975377).
- TURKEY:** MUĞLA: c. 8 km NNW of Marmaris, 1984, *Annette Carlström* (LD1975441).

Legousia juliani

ALGERIA: CONSTANTINE: Djebel Ouach, May 1889, *Julien* (MPU010144 [photo]); Djebel Ouach, May 1889, *Julien* (MPU010143 [photo]).

Supplemental tables and figures

Supplemental Table 1. Countries of origin and number of individuals sampled in the three parts.

Sample 1		Sample 2		Sample 3	
Country	Individuals	Country	Individuals	Country	Individuals
Algeria	7	Algeria	5	Cyprus	1
Austria	19	Cyprus	5	France	1
Bosnia & Herzegovina	3	France	1	Germany	3
Croatia	10	Germany	8	Greece	33
Cyprus	16	Greece	36	Turkey	12
France	35	Israel	2		
Germany	37	Italy	4		
Greece	172	Morocco	2		
Israel	8	Spain	9		
Italy	21	Tunisia	4		
Lebanon	5	Turkey	16		
Morocco	9	Turkmenistan	18		
Portugal	12				
Spain	16				
Syria	1				
Tunisia	15				
Turkey	50				
Totals	436		110		50

Supplemental Table 2. Critical characters in S1.

Capsule hair
Scabrid
Long, soft
Glabrous
Inflorescence
Spike
Compound
Flower attached
Sessile
Pedunculate
Calyx-lobes width
-0.5 mm
0.6–1 mm
1.1–mm
Capsule form
Constricted at apex
Not constricted at apex
Calyx vs. ovary
Calyx longer than ovary
Calyx shorter than ovary
Calyx-lobes shape
Linear
Lanceolate
Calyx direction
Erect
Recurved
Capsule direction
Capsule erect
Capsule erecto-patent
Inflorescence occupation of stem
-50%
50%–
Bracts vs. capsule
Bracts as long as capsule
Bracts shorter than capsule
Bracts longer than capsule
Bract form
Lanceolate
Ovate
Capsule length
-10 mm
11–14 mm
15–19 mm
20– mm

Supplemental Table 3. Critical characters in S2.

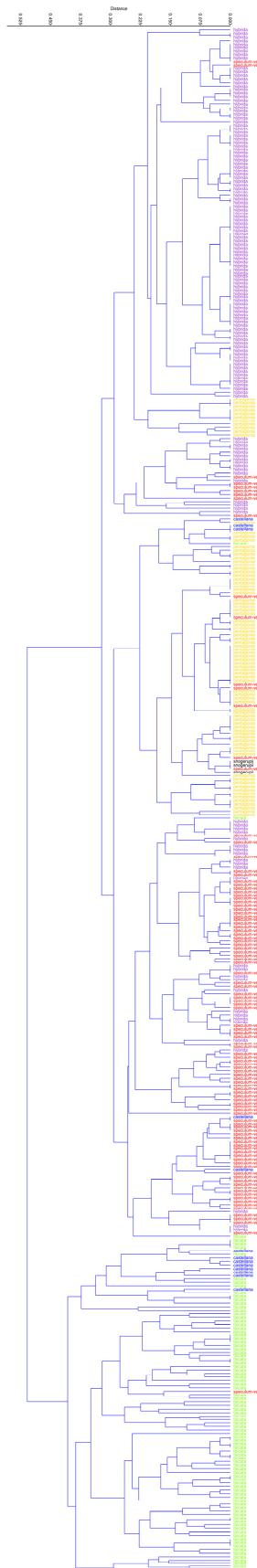
Capsule hairs
Scabrid (pointed)
Long, soft
Tuberculate (rounded)
Glabrous
Inflorescence
Spike
Compound
Flower attached
Sessile
Pedunculate
Sessile and pedunculate
Stem
Stiff, erect
Flexuous, trailing
Capsule form
Constricted at apex
Not constricted at apex
Calyx-lobes shape
Linear-lanceolate
Ovate-lanceolate
Calyx-lobes direction
Erect
Recurved
Calyx lobes/ovary length
Calyx lobes/corolla length
Inflorescence/stem length
Bracts vs. capsule
Bracts as long as capsule
Bracts shorter than capsule
Bracts longer than capsule
Bract form
Lanceolate
Ovate
Capsule length
-10 mm
11–14 mm
15–19 mm
20– mm

Supplemental Table 4. Critical characters in S3.

Stem
Flexuous
Erect
Flower arrangement
Solitary
Panicle
Filaments hair
Ciliate
Glabrous
Stem hair/mm
Calyx lobes hair/mm
Calyx lobes hair length
Ovary hair/mm
Ovary hair length
Capsule length
Capsule constriction ratio
Seed shape ratio
Calyx lobes length
Corolla length

Supplemental Table 5. Result of PCA on 13 variables of 436 individuals of *Legousia* distributed between six species.

	PC 1	PC 2	PC 3	PC 4	PC 5
Eigenvalues	3.12907	2.00335	1.36312	1.11262	1.02283
Components loadings					
Plant hairs	0.040472	0.16336	0.11394	0.10584	0.73699
Inflorescence	0.36554	-0.14479	-0.070486	0.305	-0.14565
Flower attached	-0.17586	0.43192	-0.31015	-0.3646	0.096668
Corolla lobes width	-0.19434	0.21095	0.57981	0.15259	-0.063873
Capsule form	0.2282	0.40192	0.082401	0.44375	-0.20185
Calyx vs ovary	0.34282	0.082285	0.2136	-0.041441	0.25266
Calyx shape	-0.45357	-0.067478	0.19301	0.058183	0.10502
Calyx direction	0.44646	0.031797	-0.0054661	-0.18244	-0.14812
Capsule direction	0.0023842	0.50103	0.023201	-0.44341	-0.090719
Inflorescence occupation of stem	0.30714	0.28655	0.11221	-0.11042	-0.15492
Bract vs capsule	0.22471	0.12336	-0.21415	0.20125	0.47912
Bract form	0.14218	-0.11141	0.63323	-0.26025	0.056805
Capsule length	-0.23736	0.43203	-0.0034226	0.43269	-0.14017
Percent of total variance explained	24%	15%	10%	9%	8%



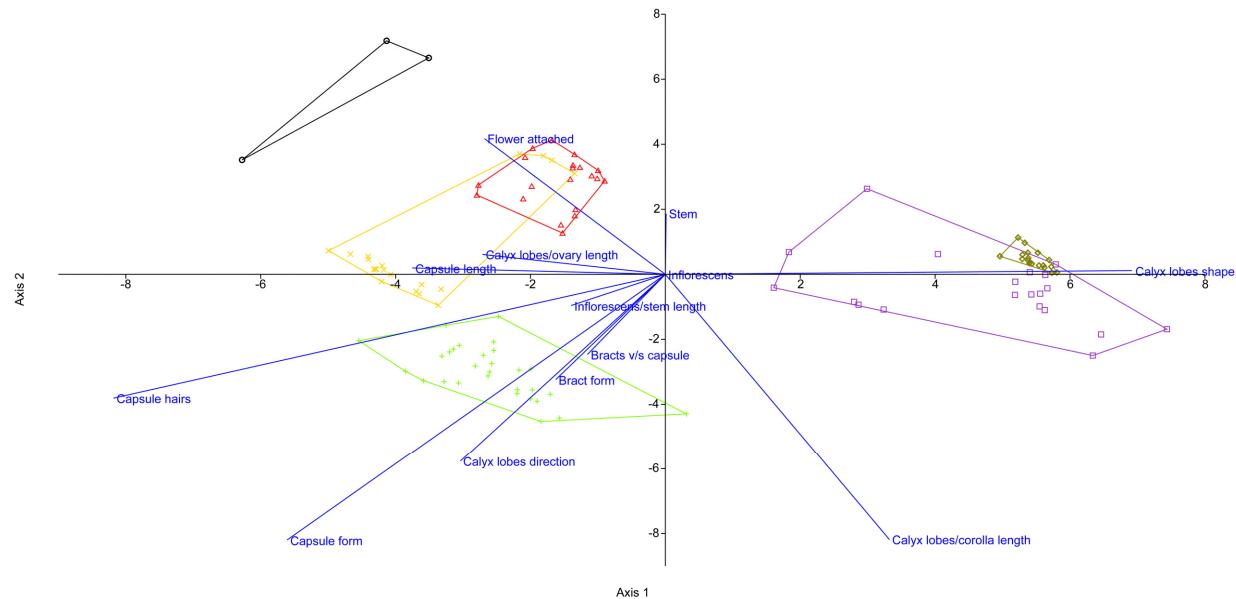
Supplemental Fig. 1. UPGMA dendrogram for 436 individuals of *Legousia* based on 13 characters and 31 variables clustering *L. scabra* with *L. falcata*; *L. hybrida* with some *L. pentagonia*; *L. pentagonia* and *L. speculum-veneris* with *L. snogerupii*; and most *L. speculum-veneris* with some *L. scabra* and *L. hybrida*.

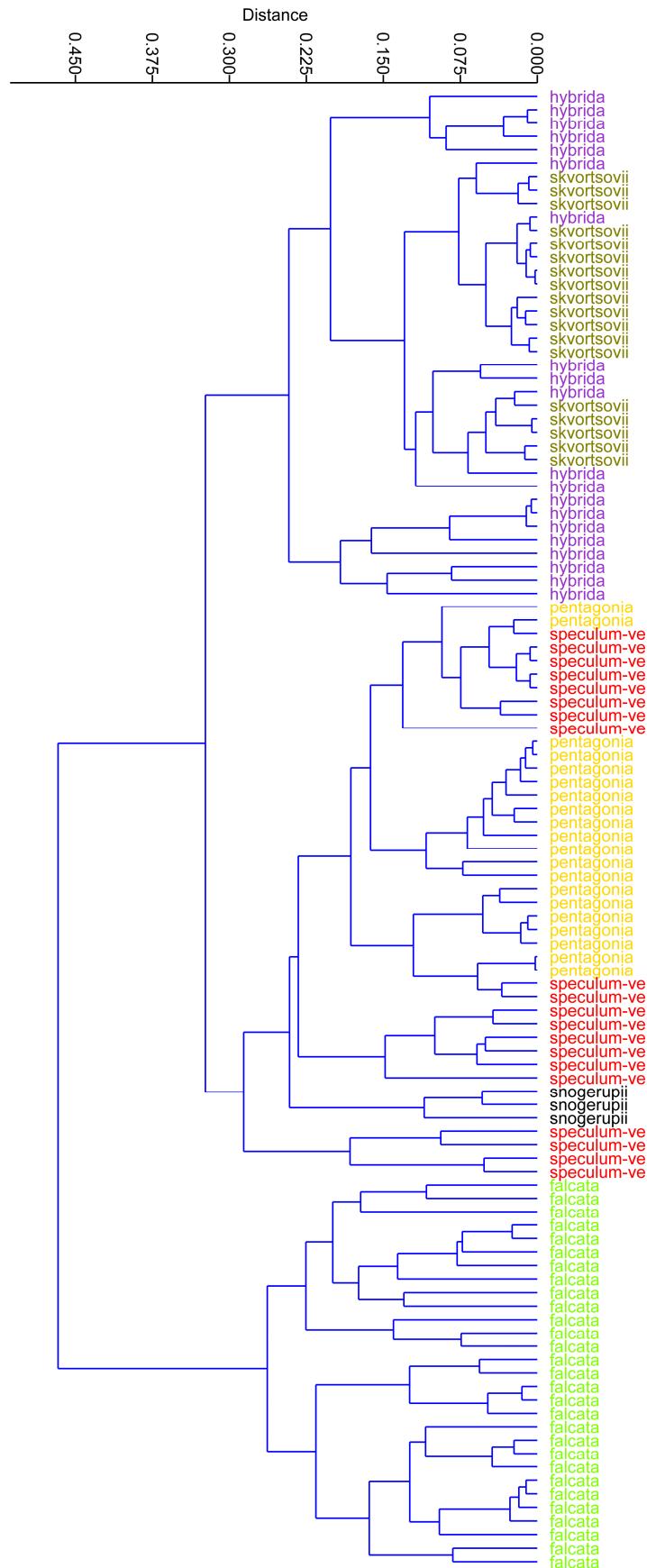
Supplemental Table 6. Result of PCA on 7 variables of 29 individuals of *Legousia falcata* and *L. scabra*.

	PC 1	PC 2	PC 3
Eigenvalues	2.11551	1.41208	1.29721
Components loadings			
Capsule hairs	-0.31064	0.39799	-0.2213
Flower attached	-0.18347	0.50408	0.52006
Calyx lobes direction	0.52759	0.013624	-0.2617
Bracts vs capsule	0.16244	-0.054905	0.72044
Bract form	0.43022	0.44986	-0.19918
Capsule length	-0.40005	0.44364	-0.20198
Calyx lobes/ovary length	0.46901	0.43024	0.11216
Percent of total variance explained	30%	20%	18%

Supplemental Table 7. Result of PCA on 13 variables of 110 individuals of *Legousia* distributed between six species.

	PC 1	PC 2	PC 3	PC 4	PC 5
Eigenvalues	3.93776	1.90287	1.3071	1.13559	1.03828
Components loadings					
Capsule hairs	0.21224	0.21022	0.30998	-0.24051	-0.128
Inflorescence	0.40141	-0.29259	0.17677	0.034773	-0.10013
Flower attached	0.0011314	0.4567	0.42324	0.14406	0.24765
Capsule form	0.38055	0.020856	0.08214	-0.0088591	-0.26016
Calyx lobes shape	-0.36637	-0.35244	0.12497	0.039495	0.0048434
Calyx lobes direction	0.39933	-0.2243	0.003113	0.054386	0.13059
Bracts vs capsule	0.11555	0.021144	0.04913	0.64951	-0.54771
Bract form	0.31055	-0.16035	0.071629	-0.13902	0.51021
Capsule length	0.017338	0.41881	0.32509	-0.37912	-0.26841
Stem	-0.11536	0.089763	0.40464	0.53293	0.38775
Calyx lobes/ovary length	0.32135	0.26066	-0.26918	0.18691	0.18635
Calyx lobes/corolla length	0.034684	-0.45682	0.55395	-0.10225	-0.093256
Inflorescence/stem length	0.35699	0.020594	-0.12195	0.035591	0.037211
Percent of total variance explained	30%	14%	10%	9%	8%

Supplemental Fig. 2. DA scatterplot based on 13 characters, 29 variables, 110 individuals and six species of *Legousia*, here surrounded by convex hulls. Biplot shows ruling characters. Four main groups reveal: *L. falcata*; *L. snogerupii*; *L. pentagonia* with *L. speculum-veneris*; *L. hybrida* with *L. skvortsovii*.



Supplemental Fig. 3. UPGMA dendrogram based on 13 characters, 29 variables, 110 individuals and six species clustering *Legousia falcata*; *L. hybrida* with *L. skvortsovi*; and *L. speculum-veneris* with *L. pentagonia* and *L. snogerupii*.

