

# Disentangling relationships among eastern Mediterranean *Cymbalaria* including description of a novel species from the southern Peloponnese (Greece)

## Plant Systematics and Evolution

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**Online Resource 1.** List of specimens used in molecular analyses with information on the specimen codes used in the text and figures, locality, herbarium voucher and accession numbers. The number of specimens used in morphological (M) and genome size (FC) analyses from each locality are indicated with a superscript.

|                                               | Individual<br>number<br>in trees | Accession number |                            |                                              |           |           |             |                   |
|-----------------------------------------------|----------------------------------|------------------|----------------------------|----------------------------------------------|-----------|-----------|-------------|-------------------|
| Taxon                                         |                                  | Analyses         | Locality                   | Voucher                                      | ITS       | 3'ETS     | <i>ndhF</i> | <i>rpl32-trnL</i> |
| <i>Cymbalaria</i> Hill.                       |                                  |                  |                            |                                              |           |           |             |                   |
| Eastern <i>Cymbalaria</i>                     |                                  |                  |                            |                                              |           |           |             |                   |
| <i>C. acutiloba</i> (Boiss. & Heldr.) Greuter |                                  |                  |                            | <i>P. H. Davis</i> 25847 & <i>O. Polunin</i> |           |           |             |                   |
| subsp. <i>acutiloba</i>                       |                                  |                  | Turkey, Antalia, Alanya    | (E 629362)                                   | KP735212  | KP851059  | KP851042    | KP851126          |
| subsp. <i>dodekanesi</i> (Greuter)            |                                  |                  | Greece, Rhodes,            |                                              |           |           |             |                   |
| Speta                                         | 1                                |                  | Archangelos                | <i>P. H. Davis</i> 40310 (E 629364)          | KP735208  | KP851058  | KP851043    | KP851127          |
|                                               |                                  |                  | Greece, Rhodes, between    |                                              |           |           |             |                   |
|                                               | 2                                | FC <sup>6</sup>  | Kolympia i Arcangelos, pr. | <i>P. Carnicero</i> 1061 (BC 975703)         | MW281375  | MW281336  | MW283897    | MW283933          |
|                                               |                                  |                  | Tsompika monastery         |                                              | MW281376, | MW281337, | MW283898,   | MW283934,         |
|                                               |                                  |                  | Greece, Rhodes, Mount      |                                              | MW281377  | MW281338  | MW283899    | MW283935          |
|                                               | 3, 4                             |                  | Profitis Ilias             | <i>P. Carnicero</i> 1062 (BC 975702)         |           |           |             |                   |

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|----------------------------------------------------------------|------|----------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------|---------------------|---------------------|---------------------|
|                                                                | 5, 6 | M <sup>2</sup>                   | Karpathos, Cap Castello                                                | <i>Del Rey &amp; Vilatersana 2531</i> (BC 975711)                 | MW281378, MW281379  | MW281339, MW281340  | MW283900            | MW283936            |
| <i>C. ebelii</i> (Cufod.) Speta                                | 1    |                                  | Montenegro, Skadar Lake Crna Gora, Skadarsko jezero, Virpazar          | <i>E. Mayer 11192 &amp; M. Mayer</i> (B 10 0460658)               | KP735236            | KP851061            | KP851036            | KP851121            |
|                                                                | 2,3  |                                  |                                                                        | <i>P. Janackovic s. n.</i> (BC 975708)                            | MW281380, MW281381  | MW281341, MW281343  | MW283902            | MW283937            |
| <i>C. longipes</i> (Boiss. & Heldr.) A.Chev.                   | 1    | M <sup>1</sup>                   | Greece, Karpathos                                                      | <i>N. Böhling 8228</i> (B 10 0138948)                             | KP735232            | KP851064            | KP851038            | KP851123            |
|                                                                | 2    | M <sup>1</sup>                   | Greece, Samos                                                          | <i>E. Gathorne-Hardy 657</i> (E 629368)                           | -                   | -                   | KP851039            | KP851124            |
|                                                                | 3    | M <sup>1</sup>                   | Turkey, Antalia                                                        | <i>S.G. Senol 3731</i> (BC 975712)                                | -                   | MW281351            | MW283904            | MW283943            |
|                                                                | 4, 5 |                                  | Greece, Samos, along coast Mykali, among pebbles                       | <i>Th. Constantinidis et al.</i> (no voucher)                     | MW281388, MW281389  | MW281352, MW281353  | MW283905, MW283906  | MW283947, MW283948  |
|                                                                | 6, 7 | M <sup>3</sup>                   | Greece, Kastelorhizo, Megisti                                          | <i>P. Carnicero 1057</i> (BC 975701)                              | MW281386, MW281387  | MW281349, MW281350  | MW283907, MW283908  | MW283944            |
|                                                                | 8, 9 | M <sup>1</sup>                   | Greece, Rhodes, Lindos, Cape Soumani                                   | <i>Del Rey &amp; Vilatersana 2538</i> (BC 975710)                 | MW281390, MW281391  | MW281354, MW281355  | MW283909, MW283910  | MW283945, MW283946  |
| <i>C. microcalyx</i> (Boiss.) Wettst. subsp. <i>microcalyx</i> | 1    | M <sup>1</sup>                   | Greece, Peloponnese, Lakonia                                           | <i>W. Greuter &amp; H. Merxmüller s. n.</i> (B 10 0460657)        | KP735238            | KP851063            | KP851041            | -                   |
|                                                                | 2    | M <sup>5</sup>                   | Greece, Peloponnese, Platanos                                          | <i>Th. Constantinidis 13435 &amp; E. Kalpoutzakis</i> (BC 975716) | MW281394            | MW281361            | MW283911            | MW283953            |
|                                                                | 3, 4 | M <sup>2</sup>                   | Greece, Peloponnese, Arkadia, between Agios Panteleimon and Kastanitsa | <i>Th. Constantinidis 13447 &amp; E. Kalpoutzakis</i> (BC 975715) | MW281395, MW281396  | MW281362, MW281363  | MW283912            | MW283954            |
|                                                                | 5, 6 | FC <sup>3</sup> , M <sup>5</sup> | Greece, Peloponnese, Lakonia, Mystras                                  | <i>P. Carnicero 1063</i> (BC 975709)                              | MW281392            | MW281357            | MW283913, MW283914  | MW283949, MW283950  |
| (subsp. <i>alba</i> )                                          | 7, 8 | M <sup>5</sup>                   | Greece, Peloponnese, Lakonia, Mystras                                  | <i>P. Carnicero 1069</i> (BC 975707)                              | MW281393            | MW281359            | MW283915, MW283916  | MW283951, MW283952  |
| subsp. <i>heterosepala</i> (Cufod.)                            | 1-5  |                                  | Greece, Crete, Falasarna                                               | <i>P. Carnicero 1022</i> (BC 975713)                              | MW281382 - MW281385 | MW281344 - MW281347 | MW283917 - MW283921 | MW283938 - MW283942 |
| Speta                                                          |      |                                  |                                                                        |                                                                   |                     |                     |                     |                     |
|                                                                | 1, 2 | FC <sup>5</sup> , M <sup>3</sup> | Greece, Kastelorhizo, Megisti                                          | <i>P. Carnicero 1039</i> (BC 975705)                              | MW281401, MW281402  | MW281369, MW281370  | MW283922 - MW283924 | MW283959 - MW283961 |
| subsp. <i>paradoxa</i> Greuter                                 |      |                                  |                                                                        |                                                                   |                     |                     |                     |                     |
| <i>C. minor</i> (Cufod.) Speta                                 | 1    | M <sup>1</sup>                   | Greece, Kefallinia, Aenos                                              | <i>J. Damboldt s. n.</i> (B 10 0460655)                           | KP735237            | KP851060            | KP851037            | KP851122            |
|                                                                | 2, 3 |                                  | Greece, Peloponnese, Achaia, Tsapournia                                | <i>P. Carnicero 1080</i> (BC 975704)                              | MW281397, MW281398  | MW281364, MW281365  | MW283925, MW283926  | MW283955            |
| <i>C. spetae</i> Carnicero                                     | 1    | M <sup>1</sup>                   | Greece, Peloponnese, Lakonia, Taigetos                                 | <i>C. Aedo 14341 et al.</i> (SALA 140867)                         | KP735239            | KP851062            | KP851040            | KP851125            |

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|                                                                                          | 2, 3 | M <sup>3</sup>                   | Greece, Peloponnese, Kambos                          | <i>Th. Constantinidis 13405 &amp; E. Kalpoutzakis</i> (BC 975717) | MW281399, MW281300  | MW281366, MW281367  | MW283927, MW283928  | MW283957, MW283958  |
|                                                                                          | 4-7  | FC <sup>2</sup> , M <sup>5</sup> | Greece, Peloponnese, Lakonia, Trypi                  | <i>P. Carnicero 1074</i> (BC 955798)                              | MW281403 - MW281406 | MW281371 - MW281374 | MW283929 - MW283932 | MW283962 - MW283965 |
| <b>Other Cymbalaria</b>                                                                  |      |                                  |                                                      |                                                                   |                     |                     |                     |                     |
| <i>C. aequitriloba</i> (Viv.) A.Chev.                                                    | 1    |                                  | France, Corsica, La Castagniccia                     | <i>A. Curcó</i> (BCN 86695)                                       | KP735225            | KP851084            | KP851014            | KP851100            |
|                                                                                          | 2    |                                  | France, Corsica, La Castagniccia                     | <i>A. Hilpold s. n.</i> (BOZ 8888)                                | KP735224            | KP851085            | KP851011            | KP851097            |
|                                                                                          | 3    |                                  | Spain, Balearic Islands, Majorca, Puig Major         | <i>X. Rotllan</i> (no voucher)                                    | KP735219            | KP851088            | KP851007            | KP851093            |
|                                                                                          | 4    |                                  | Spain, Balearic Islands, Majorca, Formentor          | <i>L. Sáez 7366 &amp; X. Rotllan</i> (BC 879621)                  | KP735240            | KP851086            | KP851009            | KP851095            |
|                                                                                          | 5    |                                  | Italy, Sardinia, Fonni, Gennargentu                  | <i>S. Castroviejo 17018 et al.</i> (SALA 142359)                  | KP735221            | KP851083            | KP851016            | KP851101            |
|                                                                                          | 6    |                                  | Italy, Sardinia, Nuoro, Badde Salighes               | <i>C. Aedo 9213</i> (MA 708824)                                   | KP735220            | KP851087            | KP851026            | KP851111            |
|                                                                                          | 7    |                                  | Italy, Sardinia, Cuglieri, Mte. Ferru                | <i>C. Navarro 4683 et al.</i> (MA 708259)                         | -                   | -                   | KP851006            | KP851092            |
| <i>C. fragilis</i> (J.J.Rodr.) A.Chev.                                                   | 1    |                                  | Spain, Balearic Islands, Minorca, Barranc d'Algendar | <i>P. Carnicero 346 &amp; M. Galbany-Casals</i> (BC 879636)       | KP735211            | KP851081            | KP851004, KP851005  | KP851090, KP851091  |
|                                                                                          | 2    |                                  | Spain, Balearic Islands, Cabrera                     | <i>L. Sáez 6196 &amp; L. Guàrdia Valle</i> (BC 879620)            | KP735241            | KP851082            | KP851008            | KP851094            |
| <i>C. glutinosa</i> Bigazzi & Raffaelli subsp. <i>brevicalcarata</i> Bigazzi & Raffaelli | 1, 2 |                                  | Italy, Spigno Saturnia                               | <i>P. Carnicero 734 &amp; M. Galbany-Casals</i> (BC 879627)       | KP735216, KP735217  | KP851068, KP851069  | KP851029, KP851030  | KP851114, KP851115  |
|                                                                                          |      |                                  | Italy, Ravello                                       | <i>P. Carnicero 748 &amp; M. Galbany-Casals</i> (BC 879626)       | KP735218            | KP851070            | KP851020            | KP851105            |
| <i>C. hepaticifolia</i> Wettst.                                                          | 1    |                                  | France, Corsica, Lac du Nino                         | <i>A. Hilpold s. n.</i> (BOZ 8842)                                | KP735223            | KP851079            | KP851022            | KP851107            |
|                                                                                          | 2    |                                  | France, Corsica, Castagniccia                        | <i>P. Carnicero 444 &amp; M. Galbany-Casals</i> (BC 879631)       | KP735215            | KP851078            | KP851013            | KP851099            |
| <i>C. muelleri</i> (Moris.) A.Chev.                                                      | 1    |                                  | Italy, Sardinia, Seui, Genni d'Acca                  | <i>P. Carnicero 406 &amp; M. Galbany-Casals</i> (BC 879629)       | KP735210            | KP851080            | KP851012            | KP851098            |
|                                                                                          | 2    |                                  | Italy, Sardinia, Ulassai                             | <i>P. Carnicero 389 &amp; M. Galbany-Casals</i> (BC 879630)       | KP735209            | KP866214            | KP851010            | KP851096            |

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| <i>C. muralis</i> G.Gaertn., B.Mey. & Scherb. subsp. <i>muralis</i> | 1    | Spain, Catalonia, Sant Cugat (naturalized)        | <i>P. Carnicero 134</i> (no voucher)                        | KP735230              | KP851077              | KP851015              | KP851089              |
|                                                                     | 2    | Spain, Catalonia, Caldes de Montbui (naturalized) | <i>P. Carnicero 135</i> (BC 879623)                         | KP735231              | KP851076              | KP851017              | KP851102              |
|                                                                     | 3    | Poland, Slask Dolny (naturalized)                 | <i>Z. Pulawska s. n.</i> (FI)                               | -                     | -                     | KP851018              | KP851103              |
|                                                                     | 4    | Italy, Toscana, Albegna                           | <i>F. Selvi s. n.</i> (FI)                                  | -                     | -                     | KP851019              | KP851104              |
| subsp. <i>visianii</i> (Jáv.)<br>D.A.Webb                           | 1    | Italy, Lazio, Palombara                           | <i>P. Carnicero 703 &amp; M. Galbany-Casals</i> (BC 879625) | KP735226              | KP851075              | KP851027,<br>KP851028 | KP851112;<br>KP851113 |
|                                                                     | 2    | Italy, Lazio Rocca di Papa                        | <i>P. Carnicero 710 &amp; M. Galbany-Casals</i> (BC 879624) | KP735226              | KP851074              | KP851031,<br>KP851032 | KP851116,<br>KP851117 |
| <i>C. pallida</i> Wettst.                                           | 1    | Italy, Abruzzo, l'Aquila                          | <i>J. Aldasoro 3276</i> (MA 698766)                         | KP735233              | KP851073              | KP851035              | KP851120              |
| <i>C. pubescens</i> (C.Presl) Cufod.                                | 2, 3 | Italy, Abruzzo, Valle d'Orfenta                   | <i>P. Carnicero 780 &amp; M. Galbany-Casals</i> (BC 879628) | KP735234;<br>KP735235 | KP851072,<br>KP851071 | KP851033,<br>KP851034 | KP851118,<br>KP851119 |
|                                                                     | 1    | Italy, Sicily, Palermo, La pizzuta                | <i>C. Aedo 5733 et al.</i> (MA 646152)                      | KP735229              | KP851066              | KP851021              | KP851106              |
|                                                                     | 2    | Italy, Sicily, Trapani, Erice                     | <i>J. Güemes 3085 et al.</i> (SALA 106642)                  | KP735214              | KP851065              | KP851024              | KP851108              |
|                                                                     | 3    | Italy, Sicily, Trapani, Mt. Acci                  | <i>C. Aedo 5614 et al.</i> (MA 646631)                      | KP735228              | KP851067              | KP851025              | KP851110              |
| <b>Other Antirrhineae</b>                                           |      |                                                   |                                                             |                       |                       |                       |                       |
| <i>Asarina procumbens</i> Mill.                                     |      | Spain, Catalonia, Montseny massif                 | <i>P. Carnicero 253 &amp; L. Sáez</i> (BC 879635)           | KP735207              | KP851057              | KP851045              | KP851129              |