Supplemental Table S1: DNA samples used for the study. The table shows the acronym given for each *Silene ciliata* population gathered («Name»), the «Country» where these populations were collected and the topographic details of the collection sites (Location, Altitude, MGRS coordinates). There is also a reference to the herbarium and collector that has supplied us with the sampling material («Type of collection»).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Country | Location | Altitude(m) | MGRS | Type of collection |
| Can1 | ES | Cantabrian Range. Valley of San Emiliano. Around Puerto de la Ventana, east slope. | 1642 | 29TQH4477 | Personal collection, Giménez-Benavides L. |
| Can2 | ES | Cantabrian Range. Pico Jario. Picos de Europa. Western massif. | 1900 | 30TUN3712 | Personal collection, Giménez-Benavides L. |
| Can3 | ES | Cantabrian Range. Jou Sin Tierre. Picos de Europa. Spain. | 1881 | 30TUN5150 | Personal collection, Bueno A. |
| Ibe1 | ES | Iberian System. Laguna de los Patos. Neila. Burgos. | 1900 | 30TVM9646 | Personal collection, López A. |
| Ibe2 | ES | Iberian System. Sierra de la Demanda. Pico de San Lorenzo. | 2278 | 30TWM0276 | Personal collection, Giménez-Benavides L. |
| Pyr1 | ES | Pyrenees mountain range. Yésero. Ascending towards Puerto de Otal. | 1931 | 30TYN2920 | Personal collection, Giménez-Benavides L. |
| Pyr2 | ES | Pyrenees mountain range. P.N.Ordesa; Solana de la Carriata. Torla, Huesca. | 1350-1780 | 30TYN4026 | Herbarium JACA. Instituto Pirenaico de Ecología. Sheet R207074 |
| Pyr3 | ES | Pyrenees mountain range. Sierra de Querol, north of Puig de les Morreres. | 2100-2200 | 31T CG7967 | Herbarium of Faculty of Farmacology ,University of Barcelona. Sheet BCN96966 |
| Pyr5 | ES | Pyrenees mountain range. Ripolles, Toses, north of Collet de San Salvador. | 2161 | 31TDG1980 | Herbarium of Faculty of Farmacology, University of Barcelona. Sheet BCN95945 |
| Cen2 | ES | Central System. Pico del Aguila. Sierra de Bejar. | 1950 | 30TTK7079 | Personal collection, García Fernández A. |
| Cen3 | ES | Central System. Sierra de Guadarrama. Pico Cabeza de Hierro. Between C.H. Mayor and C.H. Menor. | 2340 | 30TVL2104 | Personal collection, García Fernández A. |
| Cen1 | POR | Central System. Serra da Estrela, Portugal. | 1900 | 29TPE1783 | Real Jardín Botánico de Madrid.CSIC. MA234833 |
| Mas | FR | Central Massif. Plomb du Cantal. Auvergne. Near the ski tracks. | 1560 | 31TDL8119 | Personal collection, Milla R. and Giménez-Benavides L. |
| Pyr4 | FR | Pyrenees mountain range. Haut Conflent, Nohèdes, NE of Pico de la Pelada | 2190 | 31TDH3461 | Herbarium of Faculty of Farmacology, University of Barcelona. Sheet BCN64078 |
|  |  |  |  |  |  |
| Ari | GR | Aridaia mountain range. Mountain Tzena. | 2182 | 34TFL0142 | Herbarium of University of Patra. Sheet UPA822 |
| Bal3 | GR | Balkan-Rhodope mountain system. Mountain Falakron. | 1800 | 35TKF5580 | Herbarium of University of Patra. Sheet UPA1045 |
| Bal4 | GR | Balkan-Rhodope mountain system. Mountain Falakron. | 1800 | 35TKF5307 | Herbarium of University of Patra. Sheet UPA1455 |
| Bal5 | GR | Balkan-Rhodope mountain system. Mountain Falakron. | 1800 | 35TKF5586 | Herbarium of University of Patra. Sheet UPA1451 |
| Bal6 | GR | Balkan-Rhodope mountain system. Mountain Falakron. | 2060 | 35TKF5632 | Personal collection, Trigas P. |
| Bal1 | BU | Balkan-Rhodope mountain system. Rila mountains. | 1900 | 34TGM0365 | Herbarium of University of Sofia. Sheet SO100492 |
| Bal2 | BU | Balkan-Rhodope mountain system. Pirin mountains. | 2600 | 34TGM0229 | Herbarium of University of Sofia. Sheet SO104467 |
| Din | MAC | Dinaric Alps. Karadžica Planina mountain. | 2480 | 34TEM2771 | Herbarium of University of Sofia. Sheet SO 100916 |
| Ape1 | IT | Apennines mountain range. Abruzzos mountains. P. N. Gran Sasso. Barisciano. Valley Cupa, margin of the route. | 1950 | 33TUH8528 | Personal collection, Milla R. and Giménez-Benavides L. |
| Ape2 | IT | Apennines mountain range. Abruzzos, Barisciano, after Vallicella and Valley Cupa. Parco Nazionale de Gran Sasso e Monti della Laga. | 1366 | 33TUH7979 | Herbarium Appeninnicum. Sheet APP11869. |
| Ape3 | IT | Apennines mountain range. Abruzzo. Majella National Park. | 2000 | 33TVG2225 | Herbarium of Vaccari. Museum of Natural History. University of Florence Sheet FI5477. |