

Supplementary Materials

Molecular Insights into the *Centaurea Calocephala* Complex (Compositae) from the Balkans—Does Phylogeny Match Systematics?

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Table S1. General chorological and ecological characteristics of analysed representatives of *Centaura calocephala* complex from the Balkans. Acronyms - Distribution: Al Albania, BH Bosnia-Herzegovina, Bu Bulgaria, Cg Montenegro, CS Czech Republic, Ct Croatia, Gg Georgia, Gr Greece, Mk Republic of North Macedonia, Mo Moldavia, Po Poland, Rf Russian Federation, Rm Romania, Sr Serbia, Uk Ukraine – Area Type: BALK Balkan endemic, BALK-CARP Balkan-Carpathian subendemic, CEM Central European mountain, PONT-SUBMED Pontic-Submediterranean.

Taxa	Distribution	Area Type	Habitat	Substrate	Altitude (m.a.s.l.)
<i>C. calocephala</i>	Al BH Bu Cg Ct Mk Rm Sr	BALK-CARP	dry rocky grasslands, screes, vertical cliffs	limestone, ultramafite	70–1300
<i>C. chrysolepis</i>	BH Bu Cg Sr	BALK	dry rocky grasslands	limestone	300–1200
<i>C. crnogorica</i>	Cg	BALK	dry rocky grasslands, screes, vertical cliffs	limestone	1500–2200
<i>C. gjurasinii</i>	Cg	BALK	dry rocky grasslands, screes, vertical cliffs	limestone	1100–1300
<i>C. grbavacensis</i>	Bu Mk	BALK	dry rocky grasslands, screes, vertical cliffs	limestone, marble	400–1700
<i>C. immanuelis-loewii</i>	Bu Gr	BALK	dry rocky grasslands, screes	limestone, silicate, loess	400–1100
<i>C. kotschyana</i>	Al BH Bu Cg Gr Po Rm Sr Uk(U)	CEM	mountain grasslands and pastures	limestone, marble, ultramafite, silicate	1000–2350
<i>C. melanocephala</i>	Sr	BALK	mountain rocky grasslands	ultramafite	800–1000
<i>C. murbeckii</i>	BH	BALK	dry rocky grasslands	dolomite	1100–2350
<i>C. orientalis</i>	Bu Gg ?Mk Mo Rf(C CS S) Rm Sr Uk(K U)	PONT-SUBMED	dry rocky grasslands, steppa, dry forest edge	limestone, silicate, loess	160–700
<i>C. zlatiborensis</i>	Sr	BALK	dry rocky grasslands	ultramafite	700–800

Table S2. List of investigated species, origin of the plant materials, with voucher numbers of herbarium specimens, chromosome numbers, and GenBank accession numbers. New sequences are boldfaced. Herbarium abbreviations follow Thiers' *Index Herbariorum* <http://sweetgum.nybg.org/science/ih/>.

Species	Code	Voucher	2n	ETS accession	AGT1 accession
<i>Centaurea acaulis</i> L.		Algeria, Sidi bel Abbès: Djebel Tessala, <i>Latreche, Mehdadi & Susanna</i> 2756 (Susanna pers. herb.).	60 ¹	ON398412	--
<i>Centaurea aetholica</i> Phytos & Georgadis		Greece, Achaia: Antirion-Gavrolimni, <i>Damboldt s.n.</i> (B).	22 ¹	FJ459583	--
<i>Centaurea amblensis</i> Graells		Spain, Ávila: El Barco de Ávila, sine col. (BC).	40 ²	FJ459584	--
<i>Centaurea amourensis</i> Pomel		Morocco, Zagora: North east side of the Atlas, <i>Staudinger & Finckh</i> (BC).	--	FJ459585	--
<i>Centaurea argecillensis</i> Gredilla		Spain, Guadalajara: Argecilla, mountain slopes on the road to Ledanca, <i>M. Font & Susanna</i> 1811 (BC).	60 ²	FJ459587- FJ459589	--
<i>Centaurea borjae</i> Valdés-Berm. & Rivas Goday		Spain, La Coruña: near El Ferrol, cabo Prior, S side, <i>Garcia-Jacas & Susanna</i> 2074 (Susanna pers. herb.).	66 ¹	FJ459590	--
<i>Centaurea calocephala</i> Willd.	CA1	Romania: Domogled, 44.88289°N, 22.42775°E, <i>Milanovici & Janaćković</i> 38512 (BEOU), population 1.	--	ON398378- ON398381	ON420969 ON420970
	CA2	Serbia: Rtanj, 43.77154°N, 21.89110°E, <i>Zlatković</i> 40025 (BEOU), population 2.	20*	ON398382- ON398384	ON420959 ON420960
	CA5	Serbia: Maglič, 43.61209°N, 20.55151°E, <i>Janaćković</i> 38412 (BEOU), population 5.	--	ON398385- ON398387	ON420982 ON420983
	CA6	Serbia: Đerdap, 44.66000°N, 21.67300°E, <i>Janaćković</i> 38375 (BEOU), individual 6.	20*	ON398388- ON398390	ON420984 ON420985
	CA7	Croatia: Lika, 44.50975°N, 15.89414°E, <i>Boršić & Novaković</i> 38523 (BEOU), individual 7.	20*	ON398352 ON398353	ON420967 ON420968
Species	Code	Voucher	2n	ETS	AGT1

Species	Code	Voucher	2n	ETS	AGT1
			accession	accession	
CA24	Romania: Cheile Turzii, 46.56180°N, 23.69007°E, Novaković 38542 (BEOU), population 24.		20*	ON398356-	ON420971
				ON398358	ON420972
CA25	Serbia: Ibarska klisura, 43.57024°N, 20.68667°E, Zlatković & al. 35296 (BEOU), population 25.		20*	ON398397	ON420992
				ON398398	ON420993
CA26	Serbia: Raska, 43.48817°N, 20.70823°E, Zlatković & al. 35298 (BEOU), population 26.		20*	ON398399	ON420973
				ON398400	ON420974
CA28	Serbia: Vratarnica, 43.77533°N, 22.32205°E, Zlatković & al. 40032 (BEOU), population 28.		20*	ON398401	ON420994-
				ON398402	ON420996
CA29	Serbia: Velika Baba, 43.58141°N, 20.70281°E, Miljković & Randelović 40030 (BEOU), population 29.		20*	ON398403-	ON420990
				ON398405	ON420991
Centaurea calocephala var. flava DC.	CAF31	Croatia: Lika, 44.50975°N, 15.89414°E, Boršić & Novaković 38524 (BEOU), individual 31.	20*	ON398354	ON420997
				ON398355	ON420998
	CAF10	Serbia: Đerdap, 44.66000°N, 21.67300°E, Janaćković & Novaković 38519 (BEOU), individual 10.	--	ON398391-	ON420975
				ON398393	ON420976
Centaurea calocephala var. mixta DC.	CAF11	Serbia: Đerdap, 44.66000°N, 21.67300°E, Janaćković & Novaković 38519 (BEOU), individual 11.	--	ON398394-	ON420961
				ON398396	ON420962
Centaurea carduiformis DC.		Armenia, Talin: between Pokr Arthik and Bagravan, Susanna 1527 & al. (BC).	20 ³	FJ459591	--
Centaurea carolipauana Fern. Casas & Susanna		Morocco, Tetuan: Djebel Tasaot, 14.5 km from the cross road to Talembote, Garcia-Jacas & Susanna 1437 (BC).	22 ¹	FJ459592	--
Centaurea cephalariifolia Willk.	C	Spain, Guadalajara: Between Brihuega and Torija, Garcia-Jacas & Susanna 2654 (Susanna pers. herb.).	40 ²	JQ924554	
				JQ924555	--
Centaurea chrysolepis Vis.	CH	Serbia: Svrlijig, 43.41767°N, 22.13389°E, Zlatković & Bogosavljević 37313 (BEOU).	20*	ON398375-	ON420986
				ON398377	ON420987
Centaurea clementei Boiss.		Spain, Botanical Garden of Barcelona (BC).	20 ¹	FJ459595	--

				accession	accession	
Species	Code	Voucher		2n	ETS	AGT1
<i>Centaurea collina</i> L.		Spain, Alacant: between Muro de Alcoi and Beniarrés, <i>Garcia-Jacas, Susanna</i> 1481 & <i>Vilatersana</i> (BC).	60 ¹	FJ459596	--	
<i>Centaurea crnogorica</i> Rohlena	CR	Montenegro: Lojanik, 43.08473°N, 19.01748°E, <i>Lakušić</i> 37692 (BEOU).	--	ON398366	ON420963	
				ON398367	ON420964	
<i>Centaurea crocata</i> Franco		Portugal, Algarve: 5 km N of Monchique on the road to Odemira, <i>Roché & Susanna</i> 1917 (BC).	40 ¹	FJ459597	--	
<i>Centaurea ebenoides</i> Heldr.		Greece, Euboea island: near Limni, on the coast road, <i>Phytos & Kamari</i> 20427 (B).	20 ¹	FJ459598	--	
<i>Centaurea euboica</i> Rech. f.		Greece, Euboea island: Kandili mountains, between Achmet Aga and Hagios Sotir, <i>Rechinger</i> 18215 (B).	22 ¹	FJ459599	--	
<i>Centaurea gabrielis-blancae</i> Fern. Casas		Spain, Navarra: Lumbier, Foz de Lumbier, <i>Garcia-Jacas & Susanna</i> 1592 (BC).	20 ¹	FJ459600	--	
<i>Centaurea galianoi</i> Fern. Casas & Susanna		Spain, Huelva: Sierra de Aracena, between Linares de la Sierra and Alájar, <i>Garnatje & Vilatersana</i> 55 (BC).	20 ¹	FJ459601		
<i>Centaurea gjurasinii</i> Bosnjak	GJ13	Montenegro: Prokletije, 42.51429°N, 19.77811°E, <i>Lakušić</i> 31150 (BEOU), population 13.	20*	ON398362-	ON420965	
	GJ23	Montenegro: Prokletije, 42.51429°N, 19.77811°E, <i>Lakušić</i> 38547 (BEOU), population 23.	20*	ON398364	ON420966	
				ON398365	--	
<i>Centaurea glehnii</i> Trautv.	GL	Armenia, Peninsula of Artanish, <i>Susanna</i> 1527 & al. (BC).	20 ⁴	FJ459602	--	
<i>Centaurea granatensis</i> Boiss.		Spain, Granada: Sierra Guillimona, Barranco de Tobilla, <i>Valdés s. n. & al.</i> (SEV).	20 ¹	FJ459603	--	
<i>Centaurea grbavacensis</i> (Rohlena)	GR3	Macedonia: Suva gora, 41.78902°N, 21.05255°E, <i>Zlatković & Teofilovski</i> 40031 (BEOU), individual 3.	22*	ON398349	ON420957	
Stoj. & Acht.				ON398350	ON420958	
<i>Centaurea grbavacensis</i> f. <i>lutea</i> (Soška) Micevski	GRF8	Macedonia: Suva gora, 41.78902°N, 21.05255°E, <i>Zlatković & Teofilovski</i> 40023 (BEOU), individual 8.	--	ON398346-	ON420955	
				ON398348	ON420956	
<i>Centaurea haenseleri</i> Boiss.		Spain, Málaga: 10 km to Jubrique, <i>Garcia-Jacas & Susanna</i> 1888 (BC).	40 ²	FJ459605	--	
<i>Centaurea ibn-tattoui</i> Chamboul., Bidat & J.-F.Léger		Morocco, Guercif: Debdou mountains, Municipality of Mahirija, Nif Ziane, 33.87811°N, 3.39477°W, <i>M. Chambouleyron</i> s. n., 28 June 2013 (Susanna pers. herb.).	--	ON398413	--	

				accession	accession
Species	Code	Voucher		2n	ETS
<i>Centaurea immanuelis-loewii</i>	IM	Bulgaria: Sandanski, 41.60690°N, 23.32064°E, Zlatković & Randelović 40022 (BEOU).	20*	ON398351	--
Degen					
<i>Centaurea jankae</i> Brandza	JA	Romania: Dobrogea, Badarau s. n. (CLCB).	22 ⁵	FJ459606	--
<i>Centaurea josiae</i> Humbert		Morocco, Ksar el Souk: Tizi'n Talrhemt, Garnatje, Susanna 1792 & Vilatersana (BC).	20 ¹	FJ459607	--
				FJ459608	
<i>Centaurea kandavanensis</i>		Iran, Mazandaran: Chalus road, Susanna 1621 & al. (BC).	20 ⁶	FJ459609	--
Wagenitz					
<i>Centaurea kotschyana</i> Heuff.	KO18	Macedonia: Šar Mountains, 41.85010°N, 20.62837°E, Novaković 38516 (BEOU), population 18.	22*	ON398373	ON420988
	KO19	Serbia: Balkan Mountains, 43.38869°N, 22.59600°E, Jotić 40029 (BEOU), population 19.	(20 ⁷ / 22 ⁸)	ON398374	--
<i>Centaurea kunkelii</i> N. Garcia		Spain, Almería: road AL-411 between Roquetas and Canjáyar, Garcia-Jacas, Susanna 1612 & Vilatersana (BC).	110 ⁹	FJ459611	--
<i>Centaurea lagascana</i> Graells		Spain, Palencia: 500 m from Alba de los Cardaños, M. Font & Susanna 1822 (BC).	66 ²	FJ459613	--
<i>Centaurea lainzii</i> Fern. Casas		Spain, Málaga: Sierra Bermeja: 11 Km from Estepona on the road to Igualaje, Garcia-Jacas & Susanna 1330 (BC).	33 ¹	FJ459615	--
<i>Centaurea legionis-septimiae</i> Fern. Casas & Susanna		Spain, León: pr. vicum Crémenes, Fernández Casas 5600 & Susanna (SEV).	40 ¹	FJ459616	--
<i>Centaurea litardierei</i> Jahand. & Maire		Morocco, Ksar es Souk: south side of Col du Zad, Garnatje, Susanna 1797 & Vilatersana (BC).	40 ¹⁰	FJ459617	--
<i>Centaurea luristanica</i> Rech. f.		Iran, Khuzistan: ca. 15 km from Eizeh on the way to Dehdez, Mozaffarian s. n. (TARI).	20 ⁶	FJ459618	--
<i>Centaurea lydia</i> Boiss.		Turkey, Konya: Seydisehir, Mortas, R. Ilarsan 4312 (ANK).	40 ¹¹	FJ459619	--
<i>Centaurea malinvaldiana</i> Batt.		Algeria, Mecheria: Djebel Antar, 5 km N. of Mecheria, Latreche, Mehdadi & Susanna s.n., 3/06/2010 (Susanna pers. herb.).	20 ¹	ON398414	
<i>Centaurea mariana</i> Nyman		Spain, Almería: north side of the Sierra María, Garcia-Jacas & Susanna 1342 (BC).	20 ²	FJ459620	--

Species	Code	Voucher	accession	accession
<i>Centaurea melanocephala</i> Pančić	ME	Serbia: Studena planina, 43.55159°N, 20.65159°E, Novaković 38564 (BEOU).	22*	ON398406- ON398409
				ON420977 ON420978
<i>Centaurea murbeckii</i> Hayek	MU21	Bosnia and Herzegovina: Zelengora, 43.33194°N, 18.60603°E, Novaković 38520 (BEOU), population 21.	22*	ON398371
	MU22	Bosnia and Herzegovina: Maglić, 43.28133°N, 18.73307°E, Novaković 38521 (BEOU), population 22.	20 ¹²	ON398372
<i>Centaurea nana</i> Desf.		Morocco, Ksar es Souk: north side of Col du Zad, <i>Garnatje</i> , <i>Susanna</i> 1799 & <i>Vilatersana</i> (BC).	40 ¹	FJ459621
<i>Centaurea ochrocephala</i> Wagenitz		Iran, Azarbayjan-e-Charbi: Orumiye, between Maranah and Haki, <i>Susanna</i> 1693 & al. (BC).	20 ⁶	FJ459622
<i>Centaurea orientalis</i> L.	OR	Serbia: Kladovo, 44.63000°N, 22.52903°E, <i>Veljić</i> 38371 (BEOU).	20*	ON398368- ON398370
<i>Centaurea ornata</i> Willd.		Spain, Soria: near San Esteban de Gormaz, <i>Garcia-Jacas</i> & <i>Susanna</i> 1823 (BC), population 1. Spain, Huesca: road A-132 between Salinas de Jaca and reservoir la Peña, <i>Vilatersana</i> 58 (BC), population 2.	40 ¹	FJ459623
				FJ459624
<i>Centaurea podospermifolia</i> Losc. & Pard.		Spain, Tarragona: Tortosa, 5 km from Monte Caro, <i>Susanna</i> 2072 & al. (BC).	40 ²	FJ459625
<i>Centaurea prolongi</i> Boiss.		Spain, Málaga: north side of the Sierra de Mijas, <i>Garcia-Jacas</i> & <i>Susanna</i> 1335 (BC), population 1.	20 ¹	FJ459626
		Spain, Málaga: Sierra of Almijara, Frigiliana, <i>Galbany</i> s. n. & <i>Arrabal</i> (BC), population 2.		FJ459627 FJ459628
		Portugal, Algarve: near Loulé, Cerro Botello over Fonte da Murta, <i>Garcia-Jacas</i> & <i>Susanna</i> 1353 (BC), population 3.		FJ459629
<i>Centaurea pseudoscabiosa</i> Boiss. & Buhse		Turkey, Erzurum: between Erzurum and Varto, <i>Uysal</i> 893 (KON).	22 ¹³	FJ459630
				--
			2n	ETS
				AGT1

				accession	accession
<i>Centaurea pubescens</i> Willd.		Morocco, Ksar es Souk: 2 km from Oued Amesheguir, <i>Garnatje, Susanna 1795 & Vilatersana</i> (BC).		20 ¹	FJ459631
<i>Centaurea ragusina</i> L.		Croatia, Dubrovnik-Neretva County: Konavoske stijene, <i>Alegro, Bogdanović & Boršić</i> (Boršić pers. herb.).		20 ¹⁴	ON398410
<i>Centaurea raphanina</i> Sibth. & Sm.		Greece, Chanion: Kydonias, mounts Levka, <i>Strid & Papanicolau 15093</i> (B).		20 ¹	FJ459632
<i>Centaurea rupestris</i> L.		Greece, Macedonia: road E-90 between Véria and Kozáni, <i>Roché & Susanna 1967</i> (BC).		20 ¹⁵	FJ459633
<i>Centaurea salonitana</i> Vis.		Greece, Macedonia: W from Efkarpiá, <i>Roché & Susanna 2005</i> (BC).		20/40 ¹	FJ459634
<i>Centaurea saxicola</i> Lag.		Spain, Murcia: La Azohía, near the watchtower, <i>Garcia-Jacas, Susanna 1616 & Vilatersana</i> (BC).		60 ¹	FJ459635
<i>Centaurea scabiosa</i> L.	S	Italy, Friuli-Venezia Giulia: Gamspitz, SE Alps, 46°35'20"N, 12°59'45"E, <i>Hilpold s. n. et al.</i> , 31/8/2008 (Susanna pers. herb.).		20 ¹	JQ924559
					JQ924560
<i>Centaurea tauromenitana</i> Guss.		Cultivated in the Barcelona Botanical Garden, seeds from the Botanical Garden of Catania (BC).		20 ¹⁶	FJ459637
<i>Centaurea toletana</i> Boiss. & Reut. (2x)		Spain, Toledo: mountains above San Pablo on the track to Baños del Robledo, <i>M. Font & Susanna 1818</i> (BC), population 1. Spain, Toledo: Risco de las Paradas, <i>M. Font & Susanna 1817</i> (BC), population 2.		20 ²	FJ459638
<i>Centaurea toletana</i> Boiss. & Reut. (4x)		Spain, Madrid: Redueña, road N-320, 4 km to Torrelaguna, <i>M. Font & Susanna 1819</i> (BC).		40 ²	FJ459640
					FJ459641
<i>Centaurea xaveri</i> N. Garcia & Susanna		Morocco, Tetuán, Djebel Tasaot, 1500 m, <i>Susanna 1410 & Vallès</i> (BC).		20 ¹⁷	ON398411
<i>Centaurea zlatiborensis</i>	ZL	Serbia: Zlatibor, 43.58889°N, 19.66097°E, <i>Zlatković & Milinković 40020</i> (BEOU).		20 ¹⁸	ON398359-
					ON398361 ON420981

2n - chromosome number; * indicates chromosome number counted in this paper.

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