

Supplementary Materials

Table S1. List of all populations of *C. vulgaris* with geographic coordinates.

№	population	N	cod	geographical coordinates		
				north latitude	east longitude	altitude, m
1	Azorian insels	12	AI	38°44'09.60"	-27°16'15.60"	550
2	Arkhangelsk	20	Ar	64°21'51.70"	40°51'49.40"	32
3	Belis	15	Bs	46°37'11.46"	22°53'27.60"	1145
4	Bordeaux	12	Bd	44°49'21.32"	-0°44'26.62"	50
5	Bryansk	24	Br	53°15'57.17"	34°23'45.95"	143
6	Warsaw	25	Ww	50°40'20.28"	22°24'05.76"	210
7	Vyborg	18	Vb	60°35'35.79"	29°02'46.80"	27
8	Sweden -1	20	Sw-1	58°14'30.01"	11°24'00.00"	17
9	Gomel	32	Gm	51°21'07.93"	31°06'02.71"	115
10	Dalarna	17	DI	60°29'42.00"	15°03'42.01"	300
11	Djerdap	24	Dj	44°39'51.69"	22°25'22.38"	305
12	Dublin	10	Db	52°57'46.08"	-06°10'28.56"	153
13	Zavodoukovsk	35	Zuk	56°28'58.51"	66°32'24.70"	85
14	Zavodouspensko	40	Zus	57°13'00.00"	64°33'00.00"	110
15	Yoshkar-Ola	28	YO ₁	56°42'37.20"	47°34'3.60"	135
16	Kaliningrad	17	KI	55°16'42.00"	20°58'06.00"	5
17	Katwijk	12	Kw	52°10'59.88"	05°49'59.88"	58
18	Kem	15	Km	64°57'52.40"	34°35'23.02"	20
19	Kirov	37	Kr	59°41'00.00"	52°50'00.00"	156
20	Komissarovo	26	Kms	56°14'43.94"	66°50'31.21"	130
21	Kurgan	29	Kg	55°31'16.90"	65°20'46.60"	132
22	Istanbul	10	Ist	41°52'21.80"	27°36'40.20"	357
23	London	8	ln	51°23'03.43"	-0°45'45.75"	94
24	Ljubljana	14	Lbl	45°56'34.54"	14° 8'34.42"	560
25	Lueneburg Heath	25	Lb	53°09'09.31"	09°56'07.13"	130
26	Mizun	18	Mz	48°51'52.87"	23°51'10.27"	1120
27	Murmansk	24	Mm	68°57'47.10"	32°46'11.41"	150
28	Naroch	24	Nch	54°55'34.68"	26°40'18.00"	190
29	Nízke Tatry	20	Nt	48°33'35.21"	18°28'14.41"	580
30	Nizhny Novgorod	24	NN	56°36'36.30"	44°30'02.00"	116
31	Veliky Novgorod	24	VN	58°47'51.63"	34°14'37.65"	184
32	Oslo	16	Os	59°33'59.25"	10°41'12.71"	70
33	Penza	18	Pz	53°38'58.30"	42°18'16.60"	186
34	Pskov	28	Ps	58°14'30.50"	28°04'14.10"	37
35	Reykjavik	10	RkB	64°07'47.02"	-21°55'25.93"	45
36	Cevennes	14	Cv	44°14'30.77"	03°48'45.57"	600
37	Seville	18	Svl	37°02'54.71"	-06°38'14.70"	35
38	Tavda	22	Tv	58°06'06.45"	65°03'52.43"	90
39	Trentino	14	Tr	46°12'13.23"	11°47'34.89"	1620

	population	N ¹	cod	geographical coordinates		
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40	Tyumen	24	Tm	57°00'30.00"	66°00'05.00"	67
41	Uraj-1	24	Ur-1	60°27'39.90"	64°30'01.50"	32
42	Uraj-2	24	Ur-2	60°27'39.90"	64°30'01.50"	32
43	Faeroes	16	FI	62°00'43.60"	-06°46'00.40"	121
44	Cherepovets	20	Chp	59°12'19.78"	37°08'58.16"	115
45	Šumava	18	Shm	48°54'09.00"	13°50'10.32"	770
46	Trabzon	14	Trb	41°11'02.43"	39°74'95.90"	42
47	Ankara	10	An	39°92'59.30"	32°83'23.80"	938
48	Luga	30	Lg	58°7345.24"	29°79'62.55"	48
49	Smolensk	24	Sm	55°05'13.06"	32°13'16.88"	220
50	Minsk	30	Mk	53°48'50.00"	27°28'41.20"	281

Table S1(continuation). List of all populations of *C. vulgaris* with geographic coordinates.

¹N - the number of studied samples in the population