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Locus-dependent selection in crop-wild hybrids of lettuce under field conditions and its implication for GM crop development

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Table S4. P-values per field and overall for distortion towards *L. serriola* and *L. sativa* for the BC_{1S1} generatio. Based on a Monte Carlo algorithm, 50,000x drawing N plants from the expected distribution per locus over all fields and n per field. Employed p-value for significance (1/# informative loci): 1/220 = 0.0047. Red is distortion towards *L. serriola*, blue is distortion towards *L. sativa*. Only significant loci joining all fields in one analyses are reported in Fig. 2, discussion of single field distortion is considered beyond our scope. For two loci below indicated in yellow significant distortion for all fields could be based on one field only (other fields: p > 0.05). For all others: at least two fields are significant or providing a similar trend (p < 0.05) suggestion a general field exposure based selection of genotypes. m.d. = missing data. See method section for full methodological details

Number (#)	Marker name	Linkage group	cM	All fields (=Fig. 2) N = 90	Amsterdam	Sijbekarspel	Aachen	All fields (=Fig. 2) N = 90	Amsterdam	Sijbekarspel	Aachen	
				<i>L. serriola</i>	<i>L. serriola</i>	<i>L. serriola</i>	<i>L. serriola</i>	<i>L. sativa</i>	<i>L. sativa</i>	<i>L. sativa</i>	<i>L. sativa</i>	
	Distortion towards preference for:											
1	E35/M59-F-127-SER	1	4.1	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.
2	E45/M48-F-070-SAT	1	16.1	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.
3	CO9C-CTT-013-SAT	1	16.3	0.46064	0.06816	0.67464	0.59182	0.45398	0.8632	0.22124	0.25118	0.25118
4	CO9C-ACG-008-SER	1	18	0.99902	0.98868	0.98394	0.5871	0.00032	0.00244	0.00484	0.16042	0.16042
5	NBS-33-sat	1	28	0.9999	0.48034	1	0.87422	0.99988	0.9955	0.99234	0.75228	0.75228
6	E45/M48-F-295-SAT	1	28.7	0.43614	0.03542	0.81572	0.55754	0.94522	0.20822	0.96656	0.83144	0.83144
7	NBS-13-ser	1	29.5	1	1	1	0.98912	0.02372	0.01754	0.53312	0.01088	0.01088
8	E44/M48-F-297-SAT	1	33.5	0.63706	0.70766	0.02576	0.97474	0.53108	0.05556	0.9124	0.33214	0.33214
9	E44/M48-F-109-SAT	1	40.9	0.2226	0.14378	0.42934	0.34736	0.84908	0.35944	0.61782	0.9026	0.9026
10	CO9C-ATC-011-SAT	1	71	1	0.99998	1	1	0.00002	0.00002	0	0.00002	0.00002
11	E44/M48-F-114-SER	1	78.8	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.
12	CO9C-ATA-005-SER	1	86.3	1	0.70664	0.99934	0.99928	0.00002	0.09074	0.00008	0.00008	0.00008
13	E45/M48-F-297-SAT	1	97.3	1	0.93998	1	1	0.26708	0.30998	0.12784	0.42026	0.42026
14	E45/M48-F-235-SER	2	1.9	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.
15	NBS-23-ser	2	13.2	0.99992	0.99758	0.99994	m.d.	0.85566	0.07918	0.93354	0.90404	0.90404
16	CO9C-ACT-012-SAT	2	17	0.8437	0.97364	0.16532	0.67074	0.10974	0.01028	0.7365	0.1897	0.1897
17	E35/M59-F-273-SAT	2	25	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.
18	NBS-30-ser	2	32.4	1	0.99996	1	0.99818	0.17958	0.60732	0.27478	0.02246	0.02246
19	E44/M48-F-147-SAT	2	39.6	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.
20	CO9C-ACT-004-SER	2	61.4	1	0.99906	1	0.68924	0.24194	0.56412	0.16706	0.14244	0.14244
21	CO9C-ATC-010-SAT	2	62.4	0.99982	0.89164	0.99952	0.82836	0.03718	0.10836	0.00876	0.66086	0.66086
22	CO9C-CTT-008-SER	2	65.3	0.99948	0.99224	0.95202	0.94198	0.14112	0.34958	0.22164	0.05802	0.05802
23	CO9C-ACG-014-SAT	2	67.4	0.56112	0.7845	0.55402	0.13372	0.43888	0.2155	0.31864	0.73266	0.73266
24	CO9C-GTT-216-SER	2	81.3	1	1	1	0.76372	0.006	0.07828	0.013	0.08274	0.08274
25	CO9C-CTG-319-SER	2	90.5	0.99986	0.99896	0.98858	0.77448	0	0.0003	0.00344	0.07866	0.07866
26	E44/M49-F-212-SAT	3	7.9	0.02908	0.00446	0.66524	0.01062	0.95832	0.61402	0.6906	0.96184	0.96184
27	NBS-01-ser	3	8.8	1	0.96814	1	0.32526	0.38512	0.07932	0.30602	0.8714	0.8714
28	E44/M49-F-082-SAT	3	11.6	0.04106	0.00396	0.58804	0.0641	0.71928	0.44082	0.24362	0.96694	0.96694
29	CO9C-AAT-305-SER	3	13.1	0.99988	0.9994	0.9982	0.14742	0.00082	0.01006	0.00042	0.55532	0.55532
30	CO9C-CTG-328-SER	3	18.8	0.55596	0.35508	0.84418	0.0824	0.32224	0.41016	0.07358	0.6995	0.6995
31	E45/M48-F-207-SER	3	21.5	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.
32	CO9C-CTA-600-SAT	3	24.2	0.10164	0.10966	0.14634	0.33908	0.85636	0.80486	0.76956	0.49202	0.49202
33	NBS-34-sat	3	26.5	0.0025	0.00058	0.59798	0.00384	1	1	1	1	1
34	E35/M59-F-281-SER	3	27.2	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.	m.d.
35	CO9C-CTA-325-SAT	3	29.7	0.00156	0.10352	0.01628	0.00556	0.9973	0.81428	0.96584	0.98132	0.98132

Number (#)	Marker name	Linkage group	cM	All fields (=Fig. 2) N = 90	Amsterdam n = 29	Sijbekarspel n = 40	Aachen n = 21		All fields (=Fig. 2) N = 90	Amsterdam n = 29	Sijbekarspel n = 40	Aachen n = 21
				<i>L. serriola</i>	<i>L. serriola</i>	<i>L. serriola</i>	<i>L. serriola</i>	<i>L. sativa</i>	<i>L. sativa</i>	<i>L. sativa</i>	<i>L. sativa</i>	
Distortion towards preference for:												
36	E44/M49-F-479-SAT	3	37.1	0.98658	0.96128	0.69354	0.88218		0.71176	0.28838	0.75398	0.49944
37	E44/M49-F-362-SAT	3	44.9	0.48544	0.64502	0.18334	0.5465		0.21352	0.01158	0.47886	0.68162
38	E45/M48-F-287-SER	3	46.6	0.00054	0.04884	0.00164	0.07982		0.82642	0.3211	0.9647	0.46028
39	NBS-18-sat	3	47.1	0.5654	0.46782	0.81516	0.08628		1	0.97504	1	0.99924
40	CO9C-ACG-011-SER	3	50.8	0.46262	0.65326	0.28698	0.2586		0.95624	0.88866	0.89464	0.56848
41	NBS-20-ser	3	52	1	0.99768	1	0.72288		0.99338	0.7921	0.99634	0.65488
42	1A36-F-195-SAT	3	52.2	0.00642	0.06088	0.0605	0.02552		0.99698	0.7499	0.99972	0.57016
43	1A31-F-107-SAT	3	52.4	0.30568	0.35338	0.54292	0.0809		0.72062	0.51002	0.73042	0.3459
44	E35/M59-F-299-SAT	3	52.5	0.04702	0.5245	0.04218	0.03672		0.98612	0.68322	0.92368	0.89474
45	CO9C-CTA-142-SAT	3	53.1	0.00002	0.00002	0.00014	0.00002		1	1	0.99974	1
46	CO9C-GTT-241-SER	3	58.8	0.73082	0.5212	0.50466	0.63488		0.26918	0.3029	0.49534	0.19434
47	1A31-F-122-SER	3	72.5	0.85074	0.086	0.99096	0.63696		0.60164	0.68984	0.517	0.20712
48	NBS-32-ser	3	72.5	0.99996	0.98748	0.99998	0.52746		0.99186	0.26444	0.9991	0.85528
49	1A31-F-124-SER	3	73.1	0.08202	0.00216	0.55744	0.47958		0.6624	0.53786	0.5591	0.41098
50	NBS-35-ser	3	83	m.d.	m.d.	m.d.	m.d.		m.d.	m.d.	m.d.	m.d.
51	CO9C-GTG-070-SAT	3	87.8	0.00008	0.00084	0.06712	0.02008		0.99976	0.99712	0.88504	0.9473
52	CO9C-ATA-006-SER	3	89	1	0.99412	1	0.72726		0.26486	0.74736	0.12396	0.12776
53	NBS-09-sat	3	106.6	0.0061	0.01378	0.12116	0.03262		1	0.99964	1	0.91468
54	CO9C-CTG-380-SER	3	112.4	0.42304	0	0.84436	0.58026		0.44592	0.96792	0.074	0.20286
55	E35/M59-F-193-SAT	3	117.2	0.039	0.02062	0.02582	0.7679		0.63468	0.7399	0.41156	0.27846
56	E35/M59-F-187-SER	3	117.2	m.d.	m.d.	m.d.	m.d.		m.d.	m.d.	m.d.	m.d.
57	1A31-F-347-SER	3	125.1	0.01698	0.00018	0.147	0.7513		0.77144	0.97672	0.74398	0.02274
58	CO9C-CTA-285-SAT	3	129.6	0.0001	0.00054	0.00272	0.26918		0.99976	0.99824	0.99312	0.56282
59	CO9C-TCC-181-SER	3	130.2	0.96934	0.85424	0.44506	0.98704		0.0143	0.05482	0.3539	0.00282
60	CO9C-TCC-202-SAT	4	17.5	1	0.99998	0.92972	0.99698		0.00002	0.00002	0.03562	0.0007
61	CO9C-GTT-148-SAT	4	25	1	0.99992	0.9961	0.99682		0.00002	0.00008	0.02252	0.00064
62	E35/M59-F-220-SAT	4	36.9	0.97268	0.95498	0.29876	0.99272		0.66914	0.1279	0.53478	0.93116
63	E35/M59-F-276-SAT	4	49.1	1	0.99998	0.98722	0.99818		0.04602	0.04852	0.03088	0.59904
64	CO9C-TCC-281-SAT	4	52.1	0.88808	0.82266	0.65562	0.58932		0.11192	0.0986	0.23866	0.41068
65	CO9C-ATT-009-SAT	4	58.8	0.99984	0.95816	0.99364	0.91758		0.00512	0.08622	0.06316	0.03336
66	CO9C-ATT-010-SAT	4	60.8	0.9985	0.84082	0.96684	0.96884		0.02756	0.264	0.18572	0.01066
67	CO9C-GTG-310-SAT	4	63.4	0.95844	0.84226	0.68174	0.86588		0.02584	0.083	0.2161	0.0604
68	E45/M48-F-071-SER	4	75.8	m.d.	m.d.	m.d.	m.d.		m.d.	m.d.	m.d.	m.d.
69	CO9C-CTT-012-SAT	4	83.4	0.93548	0.33172	0.8924	0.95322		0.04042	0.51924	0.06092	0.01746
70	CO9C-ACT-005-SAT	4	94.1	0.00004	0.00026	0.065	0.01924		0.99986	0.99876	0.8843	0.94866
71	CO9C-CTA-102-SAT	4	100.5	0.00002	0.00002	0.00002	0		1	1	1	0.99996
72	CO9C-CTC-001-SAT	4	102.9	0.00002	0.00002	0.00032	0.00006		1	1	0.99912	0.99994
73	CO9C-CTC-020-SAT	4	104.7	0.00002	0.00002	0.00048	0.00004		1	1	0.99984	0.99986
74	CO9C-CTC-021-SER	4	106.7	0.49074	0.4233	0.85344	0.05336		1	0.99988	0.9888	0.94664
75	CO9C-TCC-167-SER	4	109.2	0.818	0.99468	0.59044	0.01896		0.77918	0.16136	0.69604	0.92428
76	1A31-F-259-SAT	4	112.2	0.00002	0.00002	0.00004	0.00066		1	0.99736	0.99436	0.99568

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				<i>L. serriola</i>	<i>L. serriola</i>	<i>L. serriola</i>	<i>L. serriola</i>	<i>L. sativa</i>	<i>L. sativa</i>	<i>L. sativa</i>	<i>L. sativa</i>	
	Distortion towards preference for:											
77	CO9C-CTC-010-SER	4	153.3	0.97346	0.9634	0.9469	0.14946		0.01246	0.01104	0.02	0.55084
78	1A36-F-250-SAT	4	157.8	0.2076	0.06494	0.88782	0.02774		0.95178	0.89784	0.39406	0.94184
79	CO9C-GTG-193-SAT	4	160.5	0.3974	0.2752	0.5303	0.25044		0.51808	0.58382	0.34712	0.58688
80	NBS-24-ser	5	0	1	0.99996	1	0.55056		0.1206	0.0043	0.5591	0.44944
81	CO9C-CTC-017-SAT	5	3.3	0.90514	0.99842	0.79468	0.00532		0.19086	0.0004	0.44194	0.97494
82	CO9C-ATC-006-SER	5	8.3	1	1	1	0.44444		0.00482	0.00218	0.05436	0.27
83	E44/M48-F-223-SER	5	13.5	1	0.99996	1	0.93604		0.0008	0.00338	0.02132	0.10896
84	CO9C-CTC-004-SER	5	18.8	0.99964	0.99996	0.81114	0.5126		0.0036	0.00004	0.18886	0.4874
85	CO9C-ACG-005-SER	5	22.8	0.71038	0.96762	0.35268	0.08866		0.19086	0.0095	0.4437	0.6807
86	CO9C-AAT-162-SER	5	28.4	1	1	1	0.59234		0.00922	0.09072	0.0092	0.19564
87	1A31-F-129-SER	5	35.9	0.9	0.88142	0.82362	0.3826		0.96534	0.17652	0.98768	0.8981
88	1A31-F-224-SAT	5	43.7	0.5228	0.36272	0.84554	0.10304		0.73524	0.07338	0.79414	0.8971
89	CO9C-ATT-014-SER	5	46	0.32866	0.60896	0.34814	0.08848		0.67134	0.39104	0.44798	0.6802
90	CO9C-CTG-96-SAT	5	66	0.05606	0.57246	0.2155	0.00172		0.91378	0.2845	0.6757	0.99114
91	CO9C-ATC-005-SAT	5	66.6	0.14422	0.43704	0.17016	0.17218		0.89886	0.4114	0.7337	0.92102
92	CO9C-ATC-002-SER	5	70.8	0.9933	0.86936	0.99878	0.15624		0.71854	0.43674	0.3864	0.84376
93	CO9C-ACG-013-SER	5	72.6	0.99984	0.9984	0.99986	m.d.		0.4331	0.1337	0.20744	0.93284
94	CO9C-AAT-200-SAT	5	75.6	1	1	0.6797	0.9997		0.00002	0.00002	0.4551	0.00006
95	CO9C-ACT-009-SAT	5	78.5	0.02374	0.0228	0.52494	0.01956		0.99192	0.9772	0.60262	0.9474
96	CO9C-AAT-172-SAT	5	84.6	0.00284	0.02418	0.08748	0.0419		0.9994	0.9971	0.8509	0.90106
97	1A36-F-160-SER	5	86.7	0.95928	0.54902	0.96404	0.77062		0.01564	0.18266	0.00166	0.54762
98	E44/M49-F-316-SER	5	107.9	0.00022	0.01674	0.0001	0.39114		0.99294	0.86142	0.97866	0.59438
99	E45/M48-F-127-SER	5	109.6	1	0.99704	1	0.92674		0.86888	0.57734	0.88512	0.4019
100	E35/M59-F-129-SER	5	110.3	0.4418	0.55568	0.07006	0.8095		0.24208	0.23978	0.5678	0.06282
101	CO9C-GTG-111-SAT	5	111	0.01064	0.31108	0.00144	0.1983		0.9967	0.68892	0.99958	0.6572
102	CO9C-GTT-213-SER	5	111.5	0.42016	0.31038	0.3843	0.57738		0.57984	0.48708	0.6157	0.22402
103	CO9C-CTG-178-SAT	5	112.8	0.00002	0.00366	0.00044	0.05768		0.99994	0.98872	0.9985	0.87288
104	E35/M59-F-270-SAT	5	117.3	0.60318	0.49298	0.14952	0.89604		0.9309	0.87468	0.87242	0.23726
105	NBS-10-sat	5	120.1	0.21646	0.03336	0.53586	0.38876		0.99996	0.98706	1	0.61124
106	E35/M59-F-178-SER	5	126.2	0.931	0.70822	0.70132	0.84444		0.96574	0.8667	0.96606	0.23822
107	E35/M59-F-182-SAT	5	126.5	0.8217	0.72788	0.34304	0.85012		0.99632	0.995	0.97298	0.26632
108	NBS-22-ser	5	129	0.67044	0.1108	0.96832	0.29596		1	0.99994	1	0.70404
109	CO9C-AAT-431-SAT	5	131.5	0.15282	0.68562	0.07296	0.09382		0.78166	0.16136	0.86308	0.7937
110	1A36-F-156-SER	5	133.2	0.97552	0.88578	0.6945	0.95224		0.97878	0.6789	0.99036	0.4165
111	NBS26-sat	5	134.3	m.d.	m.d.	m.d.	m.d.		m.d.	m.d.	m.d.	m.d.
112	CO9C-AAT-340-SER	5	140.2	0.3022	0.2283	0.35602	0.4455		0.79836	0.56322	0.80832	0.31442
113	E35/M59-F-198-SAT	5	163.9	0.00476	0.1491	0.02138	0.04774		0.99762	0.89192	0.9952	0.49506
114	NBS-07-ser	6	7.1	1	1	1	0.04824		0.69954	0.3524	0.45882	0.79762
115	1A36-F-304-SAT	6	7.8	0.62974	0.04938	0.95406	0.49928		0.84464	0.90474	0.13564	0.94596
116	CO9C-ATT-013-SAT	6	11.7	0.00002	0.00002	0.03318	0.0058		1	1	0.93418	0.98
117	CO9C-ACG-004-SER	6	40	0.12476	0.1528	0.74814	m.d.		0.80792	0.6963	0.14962	0.9903

Number (#)	Marker name	Linkage group	cM	All fields (=Fig. 2) N = 90	Amsterdam n = 29	Sijbekarspel n = 40	Aachen n = 21		All fields (=Fig. 2) N = 90	Amsterdam n = 29	Sijbekarspel n = 40	Aachen n = 21
				<i>L. serriola</i>	<i>L. serriola</i>	<i>L. serriola</i>	<i>L. serriola</i>	<i>L. sativa</i>	<i>L. sativa</i>	<i>L. sativa</i>	<i>L. sativa</i>	
	Distortion towards preference for:											
118	CO9C-AAG-005-SER	6	43.4	0.8413	0.501	0.97846	0.0612		0.09978	0.29156	0.00816	0.7576
119	E35/M59-F-217-SAT	6	45.1	0.9923	0.68446	0.99078	0.82508		0.03626	0.20386	0.00302	0.6818
120	CO9C-ATT-005-SAT	6	45.7	0.0189	0.02426	0.38858	0.03334		0.9811	0.97574	0.4867	0.91694
121	CO9C-ACG-012-SAT	6	53.7	0.9999	0.61792	1	0.83964		0.0001	0.38208	0.00002	0.07552
122	CO9C-AAG-008-SAT	6	55.6	0.99914	0.41394	1	0.49154		0.0005	0.42962	0.00002	0.32818
123	CO9C-CTT-006-SAT	6	56.6	0.99924	0.62726	0.99946	0.9181		0.00034	0.23426	0.00018	0.03276
124	E35/M59-F-103-SAT	6	71.6	0.988	0.79918	0.99716	0.328		0.4286	0.4027	0.08942	0.82004
125	CO9C-CTC-008-SAT	6	82.8	0.99766	0.99494	0.99438	0.12872		0.0044	0.00176	0.0134	0.72584
126	CO9C-CTA-253-SER	6	82.9	0.96296	0.96748	0.93446	0.08882		0.0187	0.01032	0.02538	0.686
127	CO9C-GTT-155-SER	7	3.8	0.9643	0.06278	0.99106	0.70166		0.0357	0.75584	0.00894	0.11856
128	CO9C-CTA-406-SER	7	4.3	0.7421	0.09954	0.9707	m.d.		0.15438	0.6621	0.00972	0.80918
129	CO9C-ATA-004-SAT	7	6.3	0.00002	0.00014	0.02306	0		1	0.99986	0.95204	0.99996
130	E44/M49-F-248-SAT	7	14.2	m.d.	m.d.	m.d.	m.d.		m.d.	m.d.	m.d.	m.d.
131	1A36-F-171-SAT	7	15.3	0.8561	0.28274	0.97878	0.25866		0.41738	0.47226	0.35336	0.471
132	CO9C-ACG-002-SER	7	15.6	0.29588	0.35022	0.3295	0.08458		0.57624	0.41462	0.47002	0.6966
133	E45/M48-F-142-SAT	7	15.6	0.68254	0.05154	0.94152	0.47424		0.91718	0.43652	0.86074	0.92594
134	CO9C-CTA-010-SER	7	15.9	0.97602	0.53782	0.98004	0.44704		0.01086	0.23842	0.0062	0.2723
135	CO9C-AAT-098-SAT	7	25.6	0.74194	0.72568	0.74324	0.1717		0.41138	0.27432	0.36534	0.68902
136	CO9C-AAG-007-SAT	7	30.9	0.52292	0.60998	0.86474	0.00766		0.6396	0.39002	0.21722	0.97584
137	CO9C-ACT-013-SER	7	40.4	0.98566	0.9422	0.96394	0.11586		0.0311	0.01894	0.0884	0.62178
138	NBS-04-sat	7	42.1	0.99344	0.93978	0.99816	0.07578		0.91986	0.34076	0.95198	0.8287
139	NBS-16-sat	7	43.5	0.95812	0.9425	0.9878	0.0144		0.89908	0.1117	0.95324	0.9544
140	CO9C-CTG-112-SER	7	50.6	0.18772	0.5843	0.0535	0.29992		0.70318	0.22138	0.83878	0.42334
141	CO9C-ACT-006-SER	7	60.5	1	1	1	0.8375		0.00032	0.00248	0.00446	0.1625
142	1A31-F-170-SER	7	61.6	0.00544	0.08878	0.04344	0.06426		0.60568	0.12666	0.86194	0.37524
143	E35/M59-F-101-SER	7	63.2	0.0131	0.05044	0.4732	0.00238		0.99862	0.6583	0.98798	0.9644
144	CO9C-CTT-002-SER	7	66.8	0.6691	0.82884	0.4002	0.34906		0.3309	0.06904	0.39532	0.65094
145	CO9C-ACT-001-SER	7	68.6	0.37412	0.69046	0.22732	0.22588		0.50282	0.159	0.59344	0.5209
146	1A36-F-223-SAT	7	90.7	0.83172	0.81784	0.68374	0.34316		0.99988	0.90258	0.99564	0.94286
147	CO9C-ATA-009-SER	7	97	0.0637	0.47866	0.02014	0.12568		0.9363	0.28854	0.89916	0.87432
148	CO9C-GTT-270-SAT	8	0	0.32924	0.32186	0.02094	0.97878		0.67076	0.5279	0.97906	0.00698
149	CO9C-CTC-014-SER	8	0.5	1	1	1	0.96616		0	0.02796	0.00038	0.00664
150	NBS-11-ser	8	5.1	1	0.8644	1	0.98838		0.0235	0.29608	0.08032	0.01162
151	E45/M48-F-067-SER	8	9.5	m.d.	m.d.	m.d.	m.d.		m.d.	m.d.	m.d.	m.d.
152	E44/M49-F-262-SAT	8	18.4	0.99976	0.79082	0.99882	0.95072		0.11794	0.20256	0.0642	0.4045
153	NBS-08-ser	8	25.6	1	1	1	0.9906		0.00002	0.00066	0.0261	0.0094
154	CO9C-CTC-005-SAT	8	31.5	0.97624	0.6148	0.92752	0.92616		0.03842	0.24736	0.07248	0.07384
155	CO9C-ATC-009-SER	8	57.4	1	1	1	0.99358		0.00002	0.0066	0.00002	0.00642
156	E35/M59-F-153-SAT	8	57.9	0.37722	0.3492	0.86878	0.01424		0.20048	0.69004	0.03988	0.2408
157	1A36-F-127-SAT	8	60.8	0.32348	0.75226	0.46998	0.0216		0.00118	0.02866	0.00986	0.03582
158	CO9C-CTG-370-SAT	8	64.2	0.1419	0.34332	0.17922	0.23724		0.80482	0.513	0.7266	0.60588

Number (#)	Marker name	Linkage group	cM	All fields (=Fig. 2) N = 90	Amsterdam n = 29	Sijbekarspel n = 40	Aachen n = 21		All fields (=Fig. 2) N = 90	Amsterdam n = 29	Sijbekarspel n = 40	Aachen n = 21
				<i>L. serriola</i>	<i>L. serriola</i>	<i>L. serriola</i>	<i>L. serriola</i>	<i>L. sativa</i>	<i>L. sativa</i>	<i>L. sativa</i>	<i>L. sativa</i>	
	Distortion towards preference for:											
159	1A31-F-146-SER	8	72.1	0.00004	0.00298	0.00388	0.03318		0.89142	0.71242	0.43868	0.84448
160	CO9C-ATT-004-SER	8	79.3	1	0.9987	1	0.77708		0.00566	0.1257	0.00704	0.05832
161	E44/M48-F-141-SAT	8	80.6	0.39274	0.65808	0.71504	0.01282		0.99962	0.9153	0.96768	0.83008
162	CO9C-CTC-012-SAT	8	90.2	0.99526	0.9055	0.88166	0.9703		0.00258	0.04564	0.0651	0.00962
163	1A36-F-323-SAT	8	128.2	0.99946	0.94302	0.97956	0.96502		0.05392	0.03854	0.26866	0.10664
164	CO9C-AAT-248-SAT	8	133.6	0.5894	0.99798	0.38352	0.00182		0.33214	0.00046	0.491	0.99174
165	E44/M48-F-192-SAT	8	143.3	0.3227	0.95474	0.14074	0.01394		1	0.98102	0.99582	0.94572
166	NBS-02-ser	9	0	1	0.99156	1	0.98596		0.00074	0.03946	0.009	0.0686
167	CO9C-GTG-151-SER	9	20.3	0.89978	0.90998	0.8023	0.30824		0.06266	0.03738	0.1075	0.46128
168	CO9C-AAG-003-SAT	9	24.4	1	0.9966	1	0.15824		0.00002	0.00086	0.00002	0.68262
169	CO9C-ACT-015-SAT	9	28.1	0.93808	0.92866	0.98334	0.0231		0.06192	0.03228	0.01666	0.92218
170	CO9C-ATC-008-SAT	9	36.5	0.95372	0.50748	0.98064	0.6197		0.07116	0.49252	0.0085	0.3803
171	1A36-F-189-SAT	9	46.4	0.85978	0.14538	0.97524	0.669		0.7482	0.76178	0.30672	0.58408
172	CO9C-CTC-002-SAT	9	49.5	0.99582	0.56102	0.99428	0.93624		0.01478	0.62184	0.00572	0.02304
173	CO9C-ATC-001-SAT	9	53.1	0.9277	0.1241	0.90656	0.982		0.11022	0.75438	0.04884	0.05088
174	E44/M49-F-175-SER	9	60.7	0.93704	0.17588	0.98024	0.87794		0.98462	0.8662	0.85726	0.71882
175	CO9C-CTA-098-SER	9	81.4	0.03102	0.354	0.05076	0.03284		0.9875	0.4356	0.98626	0.84376
176	CO9C-CTT-007-SAT	9	92.6	0.1623	0.6347	0.06378	0.29096		0.91858	0.3653	0.96708	0.5426
177	1A31-F-176-SER	9	95.6	m.d.	m.d.	m.d.	m.d.		m.d.	m.d.	m.d.	m.d.
178	NBS-19-sat	9	100.2	0.95312	0.72018	0.90014	0.78914		0.99992	0.4197	1	0.92606
179	NBS-25-ser	9	102.5	0.99998	0.9893	0.99994	0.70212		0.54914	0.17822	0.9104	0.13442
180	CO9C-TCC-123-SER	9	106.1	0.70168	0.70168	0.65638	0.86894		0.76852	0.58888	0.70896	0.13106
181	E35/M59-F-183-SAT	9	108.1	0.38018	0.70582	0.01736	0.90742		0.26104	0.01842	0.7562	0.33128
182	E35/M59-F-096-SAT	9	113.1	0.48452	0.85478	0.06432	0.68264		0.69168	0.18572	0.97866	0.14086
183	CO9C-ATA-007-SAT	9	122.5	0.1908	0.76596	0.03828	0.32934		0.8092	0.13652	0.92706	0.67066
184	CO9C-AAG-004-SER	9	127.7	0.7229	0.68844	0.59126	0.48468		0.18776	0.16018	0.2488	0.27734
185	CO9C-ACT-007-SAT	9	133.4	0.00986	0.84532	0.00048	0.04264		0.99014	0.15468	0.99858	0.8998
186	CO9C-ACT-002-SER	9	137	0.07468	0.30256	0.17338	0.06206		0.87718	0.51384	0.69716	0.80972
187	CO9C-ATT-011-SAT	u	u	0.16024	0.1111	0.2142	0.58966		0.92136	0.94644	0.7858	0.254
188	E44/M48-F-212-SER	u	u	m.d.	m.d.	m.d.	m.d.		m.d.	m.d.	m.d.	m.d.
189	1A31-F-074-SAT	u	u	0.03926	0.01466	0.1939	0.42384		0.9974	0.9543	0.88958	0.8633
190	1A31-F-244-SAT	u	u	0.997	0.59188	0.97914	0.99318		0.14716	0.1342	0.3289	0.13044
191	1A31-F-323<N>-P2	u	u	0.76826	0.30302	0.43786	0.94656		0.81542	0.72102	0.8947	0.11408
192	1A31-F-402<N>-P2	u	u	m.d.	m.d.	m.d.	m.d.		m.d.	m.d.	m.d.	m.d.
193	1A36-F-148<N>-P2	u	u	0.45044	0.04196	0.87182	0.44078		1	0.97966	0.99564	0.93962
194	1A36-F-246-SAT	u	u	0.01552	0.03336	0.10996	0.13608		0.9999	0.93106	0.97552	0.85572
195	1A36-F-299<N>-P2	u	u	0.99936	0.91674	0.99702	0.87806		0.01648	0.14598	0.02414	0.11424
196	1A36-Fb-126.70<N>-P2	u	u	0.0002	0.00124	0.03342	0.0591		1	0.97898	0.99546	0.938
197	E35/M59-F-086<F>-P2	u	u	0.28526	0.0422	0.7901	0.26748		0.99998	0.97846	0.99518	0.94122
198	E35/M59-F-204<F>-P2	u	u	0.96322	0.18142	0.92742	0.9938		0.35152	0.2918	0.7502	0.038
199	E35/M59-F-212-SAT	u	u	0.12998	0.52732	0.0296	0.3109		0.8866	0.25458	0.94808	0.62652

Number (#)	Marker name	Linkage group	cM	All fields (=Fig. 2) N = 90	Amsterdam n = 29	Sijbekarspel n = 40	Aachen n = 21		All fields (=Fig. 2) N = 90	Amsterdam n = 29	Sijbekarspel n = 40	Aachen n = 21
				<i>L. serriola</i>	<i>L. serriola</i>	<i>L. serriola</i>	<i>L. serriola</i>	<i>L. sativa</i>	<i>L. sativa</i>	<i>L. sativa</i>	<i>L. sativa</i>	
	Distortion towards preference for:											
200	E44/M48-F-328-SAT	u	u	0.00004	0.05784	0.02086	0.00004		0.96892	0.63756	0.72706	0.96456
201	E44/M48-F-403<F>-P2	u	u	1	1	1	1		0.00002	0.00002	0.00002	0.00008
202	E44/M49-F-231<F>-P2	u	u	1	1	1	1		0.00002	0.00002	0.00002	0.00002
203	E44/M49-F-250<F>-P2	u	u	1	1	1	1		0.00002	0.00002	0.00002	0.00002
204	E44/M49-F-337-SAT	u	u	0.73638	0.11338	0.55966	0.98628		0.95708	0.6613	0.95282	0.4388
205	E45/M48-F-084<N>-P2	u	u	m.d.	m.d.	m.d.	m.d.		m.d.	m.d.	m.d.	m.d.
206	E45/M48-F-103-SAT	u	u	0.89436	0.92314	0.19816	0.90892		0.27818	0.08718	0.43774	0.39944
207	E45/M48-F-140-SAT	u	u	1	0.9962	0.99848	0.9858		0.98436	0.8662	0.6991	0.92512
208	E45/M48-F-146<F>-P2	u	u	m.d.	m.d.	m.d.	m.d.		m.d.	m.d.	m.d.	m.d.
209	E45/M48-F-159<F>-P2	u	u	0.7666	0.84114	0.68954	0.27314		0.99998	0.98014	0.99536	0.9372
211	1A36-F-434<N>-P1	u	u	1	0.9596	0.99874	0.99418		0.09976	0.499	0.05506	0.11154
212	E44/M49-F-150<N>-P1	u	u	m.d.	m.d.	m.d.	m.d.		m.d.	m.d.	m.d.	m.d.
213	E44/M49-F-447<F>-P1	u	u	m.d.	m.d.	m.d.	m.d.		m.d.	m.d.	m.d.	m.d.
214	NBS-03-sat	u	u	1	0.9985	1	0.99838		0.00046	0.00498	0.32056	0.00036
215	NBS-05-sat	u	u	m.d.	m.d.	m.d.	m.d.		m.d.	m.d.	m.d.	m.d.
216	NBS-27-sat	u	u	1	1	1	1		0.00002	0.00538	0.0685	0.00002
217	NBS-36-sat	u	u	m.d.	m.d.	m.d.	m.d.		m.d.	m.d.	m.d.	m.d.
218	NBS37-sat	u	u	m.d.	m.d.	m.d.	m.d.		m.d.	m.d.	m.d.	m.d.
221	CO9C-AAT-097-SAT	u	u	0.21938	0.36288	0.08842	0.69902		0.70908	0.476	0.84486	0.14818
222	CO9C-AAT-153-SAT	u	u	0.9999	0.99672	0.98276	0.88494		0.00004	0.001	0.00772	0.05022
223	CO9C-AAT-180-SAT	u	u	0.00074	0.69908	0.00138	0.00074		0.99976	0.61438	0.99656	0.99694
224	CO9C-AAT-208-SAT	u	u	0.00002	0.0161	0.00002	0		1	0.9839	1	0.99992
225	CO9C-ATA-003-SAT	u	u	0.99048	0.57446	0.8832	0.99666		0.01704	0.28518	0.06498	0.01112
226	CO9C-ATT-001-SAT	u	u	1	0.6688	1	0.9999		0.00002	0.19978	0.00002	0
227	CO9C-CTT-003-SAT	u	u	0.46296	0.93688	0.67188	0.00122		0.45236	0.02748	0.22154	0.9942
228	CO9C-CTT-009-SAT	u	u	0.06292	0.11056	0.34942	0.06584		0.90532	0.79472	0.52418	0.8457
229	CO9C-GTG-700-SAT	u	u	0.78644	0.22268	0.3099	0.99574		0.21356	0.65268	0.57196	0.00084
230	CO9C-GTT-238-SAT	u	u	0.0382	0.07604	0.05708	0.47356		0.9618	0.85418	0.94292	0.3566
231	CO9-C-GTT-440-SAT	u	u	0.82486	0.73834	0.87318	0.14088		0.17514	0.1551	0.12682	0.72958
232	CO9C-TCC-088-SAT	u	u	0.01166	0.45956	0.18262	0.00014		0.97972	0.39628	0.72284	0.99932
233	CO9-C-TCC-146-SAT	u	u	0.047	0.00514	0.79498	0.01886		0.92576	0.98312	0.12328	0.94144
234	CO9C-TCC-199-SAT	u	u	0.28328	0.734	0.1526	0.21486		0.64138	0.15994	0.75838	0.6341
235	CO9-C-TCC-640-SAT	u	u	0.87604	0.44852	0.69796	0.94636		0.12396	0.39906	0.20148	0.05364