SUPPLEMENTARY DATA

TABLE S1. The SSR markers used to analyze 431 *Olea europaea* samples, their size range, number of alleles, observed heterozygosity (H_o), expected heterozygosity (H_e), inbreeding coefficient (F), null allele frequency (A_n), polymorphic information content (PIC) and identity probability (IP)

SSR	Size range (bp)	Number of alleles	H_e	H_o	F	A_n	PIC	IP
ssrOeUA-DCA03	227-258	11	0.885	0.798	-0.104	-0.048	0.755	7.15E-02
ssrOeUA-DCA09	160-208	21	0.954	0.863	-0.077	-0.037	0.865	2.68E-02
ssrOeUA-DCA11	126-182	15	0.849	0.750	-0.079	-0.035	0.703	1.02E-01
ssrOeUA-DCA13	114-154	8	0.530	0.714	0.226	0.113	0.714	9.77E-02
ssrOeUA-DCA15	243-267	4	0.298	0.625	0.508	0.197	0.581	1.92E-02
ssrOeUA-DCA16	122-216	31	0.964	0.856	-0.088	-0.042	0.865	2.63E-02
ssrOeUA-DCA18	158-186	14	0.952	0.825	-0.111	-0.052	0.819	4.55E-02
Gapu-59	194-229	10	0.698	0.640	0.000	-0.001	0.594	1.79E-01
Gapu-71B	114-141	7	0.885	0.787	-0.087	-0.039	0.743	8.37E-02
UDO99–011	103-137	12	0.924	0.836	-0.066	-0.031	0.813	4.84E-02
UDO99–019	97-161	6	0.167	0.252	0.388	0.09	0.284	5.04E-01
UDO99–024	161-201	12	0.417	0.725	0.361	0.153	0.713	9.80E-02
UDO99-039	105-194	17	0.381	0.806	0.464	0.208	0.801	5.14E-02
UDO99-043	161-221	23	0.870	0.872	0.043	0.019	0.873	2.14E-02
Mean		13.64	0.698	0.740	0.079		0.723	1.09E-01
Min		4	0.167	0.252	-0.111	-0.048	0.284	2.14E-02
Max		31	0.954	0.872	0.508	0.208	0.873	5.04E-01