

Supporting Information

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SI Text

Microsatellite Data Analysis. DNA extractions were performed from pectoral fin tissue following either HotSHOT protocol (1), or the Chelex 10% protocol (2). A total of 63 microsatellite loci (mean 9 loci per species) were successfully amplified by PCR (3–8). Amplified products were resolved on an ABI3100 or an ABI 3700 Genetic Analyser (Applied Biosystems). Allele scoring was carried out by using GeneMapper v 3.5 software (Applied Biosystems). The total number of alleles per locus and sample was obtained by using GENETIX v.4.02 (9). Observed and expected heterozygosities were determined by using the software package Arlequin v. 2.0 (10). Deviations from Hardy–Weinberg expectations were estimated according to the level of significance determined by a Markov chain method by using GENEPOP v. 3.4 (11). Bonferroni corrections were made for multiple tests.

The number of analyzed individuals and mean number of alleles for each species in each locality is given in Table S1. The majority of the assayed microsatellite loci showed high levels of polymorphism. The total number of alleles per locus, observed and expected heterozygosity as well as Hardy–Weinberg expectations, are listed in Table S2. No evidence of linkage disequilibrium was found between locus pairs. Significant deviations from Hardy–Weinberg expectations within sampling locations were observed for most species. Out of 252 tests across species, 30 remained significant after Bonferroni correction. One or two loci accounted for >90% of the deviations from Hardy–Weinberg expectations for a particular species (Table S2). These loci, *Dvul2*, *Dvul63*, *Msur14*, *Sc05*, *Td09*, *St138*, *Aimb17*, and *Aimb22*, were removed from further analysis. Exclusion of these loci made little difference to the overall estimates of population structure; although the magnitude of the F_{ST} values changed slightly, the statistical significance remained unaltered.

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Table S1. Number of analyzed individuals (*N*) and mean number of alleles (*Na*) for each species in each locality

Species	Herradura		Cabo de Gata		Mallorca		Blanes	
	<i>N</i>	<i>Na</i>	<i>N</i>	<i>Na</i>	<i>N</i>	<i>Na</i>	<i>N</i>	<i>Na</i>
<i>Diplodus vulgaris</i>	48	13.8	47	14	47	15.6	48	15.5
<i>Mullus surmuletus</i>	48	9.3	48	11.4	48	11.9	48	11.2
<i>Serranus cabrilla</i>	32	9	30	10.4	30	10.4	30	8.6
<i>Oblada melanura</i>	43	11.2	43	11.6	47	12.2	34	12
<i>Tripterygion delaisi</i>	35	18.4	33	16.6	42	16	47	18.7
<i>Apogon imberbis</i>	32	11.2	48	11.5	48	10.6	47	12.5
<i>Symphodus tinca</i>	40	12	57	13.6	47	12.3	51	14.1

Table S2. Summary statistics for microsatellite loci among sampling collections of *D. vulgaris* species

Species	Locus								Overall
	Dvul1	Dvul2	Dvul33	Dvul4	Dvul61	Dvul63	Dvul84	Dvul38	
<i>D. vulgaris</i> , HE									
N	48	48	47	48	43	44	46	47	
A	5	11	17	16	8	16	17	21	13.875
Rs	4.998	10.884	16.639	15.667	8	15.886	16.591	20.808	13.684
H _O	0.597	0.542	0.872	0.749	0.86	0.591	0.894	0.915	
H _E	0.635	0.824	0.9	0.824	0.796	0.827	0.918	0.932	
F _{IS}	0.092	0.341*	0.032	0.123*	0.139	0.285*	0.024	0.016	0.131
<i>D. vulgaris</i> , CG									
n	47	46	48	47	46	44	44	44	
a	2	10	15	16	26	15	15	13	14
Rs	2	9.927	14.769	15.731	25.652	15	14.909	12.789	13.847
H _O	0.298	0.5	0.875	0.875	0.913	0.758	0.752	0.897	
H _E	0.303	0.803	0.892	0.898	0.952	0.933	0.824	0.923	
F _{IS}	-0.044	0.372*	0.015	0.027	0.042	0.193*	0.113*	0.013	0.091
<i>D. vulgaris</i> , MA									
N	47	46	47	45	46	47	47	45	
A	4	12	16	14	26	17	19	17	15.625
Rs	3.993	11.92	15.488	13.908	25.576	16.81	18.299	18.197	15.523
H _O	0.277	0.435	0.861	0.911	0.896	0.809	0.809	0.927	
H _E	0.269	0.805	0.913	0.906	0.947	0.927	0.815	0.935	
F _{IS}	-0.101	0.462*	0.101	-0.009	0.086	0.128*	0.008	0.034	0.088
<i>D. vulgaris</i> , BL									
N	48	43	47	48	48	44	48	48	
A	4	10	13	15	28	14	22	18	15.5
Rs	3.895	10	12.889	14.674	27.105	13.932	20.814	17.734	15.13
H _O	0.229	0.488	0.957	0.917	0.913	0.591	0.771	0.871	
H _E	0.246	0.841	0.875	0.882	0.957	0.919	0.756	0.917	
F _{IS}	0.066	0.413*	-0.095	-0.041	0.081	0.355*	-0.019	0.121	0.110

n, number of individuals analyzed; a, number of alleles; Rs, allelic richness; H_O, observed heterozygosity; H_E, expected heterozygosity; F_{IS}, inbreeding coefficient. Asterisk represents significant F_{IS} at $\alpha = 0.05$. Significant values after Bonferroni corrections are shown in bold italics.

Table S3. Summary statistics for microsatellite loci among sampling collections of *M. surmuletus* species

Species	Locus										Overall
	Mb3	Mb11	Mb14	Mb28	Mb46	Mb55	Mb63	Mb130	Mb132	Mb133	
<i>M. surmuletus</i> , HE											
n	48	45	47	48	48	48	46	48	45	48	47.1
a	6	11	16	2	6	7	14	10	10	11	9.7
R _s	5.677	4.862	5.729	2	3.284	6.323	13.381	4.707	9.745	10.416	4.230
H _O	0.444	0.868	0.743	0.182	0.765	0.653	0.815	0.760	0.846	0.793	
H _E	0.419	0.880	0.877	0.189	0.873	0.704	0.893	0.785	0.833	0.848	
F _{IS}	-0.060	0.178	0.243*	0.113	0.033	0.121	0.088	0.043	-0.015	0.122*	0.086
<i>M. surmuletus</i> , CG											
n	46	45	48	48	44	48	48	48	48	48	
a	7	18	17	2	5	7	16	15	10	17	11.4
R _s	2.963	6.029	5.923	1.251	2.424	3.434	5.481	5.219	4.712	5.749	4.318
H _O	0.520	0.862	0.651	0.068	0.528	0.658	0.850	0.814	0.790	0.829	
H _E	0.560	0.901	0.892	0.065	0.524	0.703	0.868	0.834	0.816	0.881	
F _{IS}	0.082	0.106	0.246*	-0.024	0.097	0.119*	0.047	0.095	0.066	0.103	0.093
<i>M. surmuletus</i> , MA											
n	48	48	48	48	42	48	48	48	48	41	
a	8	11	17	3	5	10	18	14	12	21	11.9
R _s	2.733	4.517	6.114	1.756	2.373	3.731	6.423	4.727	5.416	6.502	4.429
H _O	0.326	0.720	0.722	0.178	0.492	0.660	0.930	0.768	0.857	0.896	
H _E	0.458	0.744	0.908	0.259	0.501	0.706	0.924	0.783	0.868	0.925	
F _{IS}	0.199*	0.097	0.495*	0.119*	0.058	0.103	0.005	0.097	0.014	0.063	0.125
<i>M. surmuletus</i> , BL											
n	48	48	48	48	44	48	48	48	47	48	
a	8	21	17	3	4	9	17	13	9	11	11.2
R _s	2.711	6.371	6.087	1.57	2.611	3.903	5.583	4.928	4.179	5.338	4.328
H _O	0.467	0.863	0.891	0.174	0.565	0.761	0.851	0.778	0.826	0.849	
H _E	0.493	0.919	0.905	0.160	0.579	0.748	0.868	0.799	0.740	0.861	
F _{IS}	0.065	0.086	0.226*	-0.073	0.091	-0.006	0.092	0.048	-0.105	0.071	0.049

n, number of individuals analyzed; a, number of alleles; R_s, allelic richness; H_O, observed heterozygosity; H_E, expected heterozygosity; F_{IS}, inbreeding coefficient. Asterisk represents significant F_{IS} at $\alpha = 0.05$. Significant values after Bonferroni corrections are shown in bold italics.

Table S4. Summary statistics for microsatellite loci among sampling collections of *S. cabrilla* species

Species	Locus											Overall
	Sc03	Sc04	Sc05	Sc06	Sc07	Sc08	Sc11	Sc12	Sc13	Sc14	Sc15	
<i>S. cabrilla</i> , HE												
n	32	32	32	31	32	32	32	30	30	28	31	
a	8	7	17	10	6	7	4	4	12	16	8	9
R _s	7.5	6.861	16.579	9.613	5.986	6.875	3.986	4	11.73	16	7.797	8.811
H _O	0.688	0.750	0.656	0.871	0.779	0.688	0.719	0.6	0.9	0.821	0.613	
H _E	0.662	0.804	0.939	0.818	0.801	0.741	0.671	0.591	0.868	0.916	0.641	
F _{IS}	-0.039	0.068	0.274*	-0.07	0.096	0.070	-0.086	-0.049	-0.037	0.1	0.045	0.033
<i>S. cabrilla</i> , CG												
n	30	30	30	29	30	30	30	29	29	29	29	
a	8	11	20	12	9	11	6	4	12	16	6	10.454
R _s	7.733	10.6	19.46	11.929	8.733	10.663	5.927	3.965	11.929	15.826	5.931	10.245
H _O	0.767	0.867	0.733	0.864	0.8	0.767	0.694	0.345	0.897	0.893	0.652	
H _E	0.7	0.832	0.946	0.883	0.814	0.797	0.728	0.559	0.872	0.908	0.691	
F _{IS}	-0.124	-0.041	0.253*	0.069	0.018	0.062	0.063	0.163*	-0.03	0.029	0.09	0.050
<i>S. cabrilla</i> , MA												
n	30	30	30	30	30	30	30	30	30	30	30	
a	7	9	21	14	9	9	5	6	11	19	5	10.454
R _s	6.86	8.863	20.526	13.796	8.8	8.796	4.867	5.863	10.733	18.196	4.93	10.202
H _O	0.7	0.833	0.767	0.933	0.8	0.7	0.333	0.6	0.867	0.867	0.433	
H _E	0.688	0.846	0.954	0.888	0.816	0.728	0.38	0.574	0.816	0.892	0.484	
F _{IS}	-0.018	0.008	0.198*	-0.051	0.01	0.039	0.051	-0.085	-0.062	0.03	0.06	0.016
<i>S. cabrilla</i> , BL												
n	30	30	30	30	30	29	30	30	30	30	30	
a	7	8	20	12	7	8	3	5	9	12	4	8.636
R _s	6.8	7.863	19.719	11.73	6.867	7.861	2.997	4.93	8.863	11.723	3.933	8.48
H _O	0.553	0.739	0.833	0.773	0.767	0.592	0.2	0.55	0.767	0.783	0.383	
H _E	0.579	0.771	0.952	0.829	0.763	0.64	0.215	0.621	0.799	0.822	0.401	
F _{IS}	0.038	0.094	0.251*	0.112	-0.004	0.117	0.072	0.148*	0.033	0.087	0.051	0.09

n, number of individuals analyzed; a, number of alleles; R_s, allelic richness; H_O, observed heterozygosity; H_E, expected heterozygosity; F_{IS}, inbreeding coefficient. Asterisk represents significant F_{IS} at $\alpha = 0.05$. Significant values after Bonferroni corrections are shown in bold italics.

Table S5. Summary statistics for microsatellite loci among sampling collections of *O. melanura* species

Species	Locus								Overall
	Ome12	Ome13	Ome120	Ome127	Ome138	Ome154	Ome158	Ome161	
<i>O. melanura</i> , HE									
n	43	40	41	43	40	43	43	41	
a	15	10	3	13	10	16	8	15	11.25
Rs	12.94	9.215	2.785	12.254	8.751	14.407	6.882	13.676	10.113
H _O	0.868	0.872	0.186	0.877	0.83	0.851	0.744	0.884	
H _E	0.925	0.885	0.23	0.925	0.86	0.906	0.785	0.904	
F _{IS}	0.121*	0.086	0.088	0.051	0.106	0.115*	0.035	0.145	0.093
<i>O. melanura</i> , CG									
n	43	43	41	41	43	41	43	42	
a	17	8	3	15	10	16	9	15	11.62
Rs	14.939	8.351	2.511	14.632	8.646	14.021	7.786	13.164	10.50
H _O	0.905	0.868	0.22	0.893	0.744	0.845	0.721	0.891	
H _E	0.908	0.887	0.223	0.906	0.833	0.928	0.746	0.927	
F _{IS}	0.003	0.019	0.088	0.137	0.166	0.122*	0.053	0.045	0.079
<i>O. melanura</i> , MA									
n	46	45	47	47	45	47	46	46	
a	17	8	3	14	13	16	12	15	12.25
Rs	15.856	7.836	2.816	13.742	13.426	14.955	8.481	14.453	11.446
H _O	0.934	0.812	0.085	0.896	0.833	0.865	0.673	0.717	
H _E	0.917	0.827	0.103	0.913	0.852	0.889	0.732	0.919	
F _{IS}	-0.022	0.095	0.025	0.01	0.036	0.038	0.08	0.22	0.060
<i>O. melanura</i> , BL									
n	34	34	34	33	34	31	34	34	
a	13	9	3	14	15	16	9	17	12
Rs	11.047	8.793	3	13.917	14.028	14.587	8.404	15.152	11.116
H _O	0.776	0.872	0.378	0.859	0.861	0.848	0.788	0.911	
H _E	0.837	0.905	0.385	0.892	0.927	0.926	0.838	0.916	
F _{IS}	0.117	0.021	0.019	0.113*	0.137*	0.081	0.043	0.004	0.066

n, number of individuals analyzed; a, number of alleles; Rs, allelic richness; H_O, observed heterozygosity; H_E, expected heterozygosity; F_{IS}, inbreeding coefficient. Asterisk represents significant F_{IS} at $\alpha = 0.05$. Significant values after Bonferroni corrections are shown in bold italics.

Table S6. Summary statistics for microsatellite loci among sampling collections of *T. delaisi* species

Species	Locus										Overall
	Td01	Td02	Td04	Td05	Td06	Td07	Td08	Td09	Td10	Td11	
<i>T. delaisi</i> , HE											
n	32	32	34	33	32	34	33	34	34	35	
a	14	12	19	27	31	8	23	9	31	10	18.4
Rs	13.905	11.875	18.437	26.561	30.559	7.735	22.624	8.558	29.722	9.507	17.948
H _O	0.938	0.969	0.884	0.974	0.968	0.794	0.843	0.618	0.971	0.486	
H _E	0.906	0.956	0.92	0.961	0.959	0.76	0.933	0.701	0.966	0.531	
F _{IS}	-0.034	-0.033	0.099	-0.03	-0.032	-0.061	0.127*	0.131*	-0.036	0.087	0.021
<i>T. delaisi</i> , CG											
n	33	32	33	32	32	32	31	32	32	32	
a	14	13	17	25	23	7	26	6	27	8	16.6
Rs	13.815	12.843	16.801	24.684	22.778	6.969	26	5.968	26.652	7.938	16.444
H _O	0.879	0.906	0.909	0.906	0.875	0.684	0.933	0.531	0.875	0.73	
H _E	0.904	0.882	0.873	0.927	0.953	0.774	0.952	0.727	0.936	0.694	
F _{IS}	0.028	-0.092	-0.041	0.023	0.081	0.115*	0.052	0.249*	0.083	-0.081	0.041
<i>T. delaisi</i> , MA											
n	42	41	42	42	42	42	42	42	42	42	
a	16	12	18	25	24	7	20	5	26	7	16
Rs	14.146	10.661	15.894	22.799	21.505	6.456	18.27	4.738	23.228	6.992	14.468
H _O	0.881	0.814	0.881	0.952	0.881	0.548	0.891	0.643	0.957	0.738	
H _E	0.9	0.734	0.891	0.95	0.938	0.615	0.922	0.564	0.946	0.71	
F _{IS}	0.022	-0.125	0.012	-0.002	0.06	0.09	0.094	0.375*	-0.058	-0.039	0.042
<i>T. delaisi</i> , BL											
n	47	47	47	46	47	47	47	47	47	47	
a	12	16	20	25	31	8	29	9	27	10	18.7
Rs	11.28	15.416	17.867	22.505	26.374	6.865	24.589	8.181	23.897	9.383	16.635
H _O	0.872	0.887	0.915	0.978	0.915	0.702	0.845	0.362	0.894	0.681	
H _E	0.876	0.913	0.917	0.936	0.961	0.683	0.951	0.749	0.923	0.735	
F _{IS}	0.005	0.038	0.003	-0.045	0.046	-0.042	0.114*	0.513*	0.063	0.062	0.075

n, number of individuals analyzed; a, number of alleles; Rs, allelic richness; H_O, observed heterozygosity; H_E, expected heterozygosity; F_{IS}, inbreeding coefficient. Asterisk represents significant F_{IS} at $\alpha = 0.05$. Significant values after Bonferroni corrections are shown in bold italics.

Table S7. Summary statistics for microsatellite loci among sampling collections of *A. imberbis* species

Species	Locus								Overall
	Aimb14	Aimb17	Aimb2	Aimb22	Aimb28	Aimb29	Aimb41	Aimb74	
<i>A. imberbis</i> , HE									
n	32	31	32	32	32	32	32	31	
a	13	20	8	5	7	13	15	9	11.25
Rs	12.874	20	7.968	5	7	12.874	14.842	9	11.194
H _O	0.843	0.806	0.75	0.312	0.741	0.812	0.812	0.709	
H _E	0.876	0.933	0.771	0.646	0.79	0.879	0.866	0.727	
F _{IS}	0.032	0.138*	0.028	0.505*	0.089	0.064	0.055	-0.005	0.113
<i>A. imberbis</i> , CG									
n	48	48	48	45	48	47	48	47	
a	13	20	8	5	6	18	14	8	11.5
Rs	11.729	18.599	7.926	5	5.863	15.91	11.955	7.609	10.573
H _O	0.854	0.812	0.77	0.5	0.685	0.914	0.784	0.744	
H _E	0.879	0.939	0.805	0.64	0.723	0.901	0.841	0.644	
F _{IS}	0.024	0.137*	0.065	0.174*	0.059	-0.016	0.097	-0.179	0.045
<i>A. imberbis</i> , MA									
n	46	42	48	47	48	48	48	48	
a	10	21	7	6	8	18	7	8	10.625
Rs	9.473	19.498	6.712	5.621	7.518	15.533	6.518	7.263	9.767
H _O	0.774	0.603	0.687	0.404	0.77	0.896	0.729	0.541	
H _E	0.833	0.934	0.736	0.622	0.822	0.895	0.679	0.624	
F _{IS}	0.048	0.437*	0.087	0.35*	0.057	-0.001	-0.109	0.133*	0.125
<i>A. imberbis</i> , BL									
n	47	47	46	42	47	45	46	47	
a	14	25	7	6	8	16	15	9	12.5
Rs	12.889	22.961	6.957	5.737	7.531	14.36	12.595	7.828	11.357
H _O	0.872	0.872	0.772	0.412	0.872	0.862	0.841	0.672	
H _E	0.836	0.938	0.843	0.64	0.749	0.873	0.872	0.728	
F _{IS}	0.084	0.089	0.112*	0.583*	-0.052	0.037	0.067	0.011	0.116

n, number of individuals analyzed; a, number of alleles; Rs, allelic richness; H_O, observed heterozygosity; H_E, expected heterozygosity; F_{IS}, inbreeding coefficient. Asterisk represents significant F_{IS} at $\alpha = 0.05$. Significant values after Bonferroni corrections are shown in bold italics.

Table S8. Summary statistics for 63 microsatellite loci among sampling collections of *S. tinca* species

Species	Locus								Overall
	St138	St143	St155	St222	St287	St368	St245	St336	
<i>S. tinca</i> , HE									
n	37	37	39	39	40	39	37	39	
a	15	9	11	10	9	17	12	13	12
Rs	15	9	10.897	9.895	8.915	16.791	11.987	12.879	11.92
H _O	0.568	0.749	0.897	0.821	0.825	0.886	0.872	0.845	
H _E	0.911	0.788	0.883	0.83	0.796	0.914	0.896	0.856	
F _{IS}	0.378*	0.114	-0.023	0.005	-0.036	0.075	0.084	0.091	0.086
<i>S. tinca</i> , CG									
n	54	51	58	57	57	55	54	57	
a	17	11	13	12	11	17	15	13	13.625
Rs	15.625	10.916	12.174	10.847	9.471	15.448	14.724	12.677	12.735
H _O	0.759	0.843	0.897	0.895	0.789	0.836	0.847	0.798	
H _E	0.926	0.86	0.891	0.825	0.786	0.89	0.86	0.824	
F _{IS}	0.179*	0.018	-0.005	-0.085	-0.008	0.061	0.008	0.027	0.024
<i>S. tinca</i> , MA									
n	45	47	47	47	47	46	45	47	
a	15	12	11	12	9	17	12	11	12.375
Rs	14.575	11.778	10.903	10.934	8.566	16.701	11.878	10.902	12.029
H _O	0.6	0.915	0.83	0.745	0.723	0.843	0.864	0.757	
H _E	0.902	0.886	0.878	0.796	0.793	0.904	0.878	0.769	
F _{IS}	0.332*	-0.032	0.05	0.066	0.076	0.133*	0.06	0.078	0.095
<i>S. tinca</i> , BL									
n	51	49	51	51	45	50	49	51	
a	19	12	13	13	10	16	13	17	14.125
Rs	17.092	11.446	12.554	11.802	9.584	15.716	12.677	15.098	13.246
H _O	0.529	0.878	0.882	0.726	0.8	0.898	0.915	0.773	
H _E	0.907	0.874	0.894	0.8	0.792	0.926	0.927	0.784	
F _{IS}	0.414*	-0.003	0.013	0.123*	-0.012	0.066	0.012	0.015	0.078

n, number of individuals analyzed; a, number of alleles; Rs, allelic richness; H_O, observed heterozygosity; H_E, expected heterozygosity; F_{IS}, inbreeding coefficient. Asterisk represents significant F_{IS} at $\alpha = 0.05$. Significant values after Bonferroni corrections are shown in bold italics.