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Temporal and spatial genetic variation of Engraulis encrasicolus in the Adriatic Sea

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Temporal and spatial genetic variation of *Engraulis encrasicolus* in the Adriatic Sea

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Table S1. Summary of genetic variability observed at 13 microsatellite loci in the sampled populations. $N_{A\ TOT}$ = Number of alleles observed in a specific locus; N_A = number of alleles observed *per* location; N = number of individuals correctly genotyped; H_O = observed heterozygosity; H_E = expected heterozygosity; F_{IS} = inbreeding coefficient estimates; R_S = allelic richness estimates standardized at 22 individuals.

		LSA	*LCA*	*LCR*	*ASA*	*ACA*	*ACR*	*BAA*	*PEB*	*JAB*	$N_{A\ TOT}$
Ee2-91b	N_A	10	11	10	9	9	9	7	9	9	12
	N	47	48	48	48	48	48	22	35	31	
	H_E	0.821	0.829	0.828	0.811	0.803	0.800	0.807	0.796	0.793	
	H_O	0.809	0.792	0.854	0.708	0.854	0.708	0.636	0.657	0.710	
	F_{IS}	0.015	0.045	-0.032	0.128	-0.064	0.116	0.215	0.176	0.106	
	R_S	9.032	9.134	7.929	7.711	7.468	8.061	7.000	8.321	7.967	
Ee2-407	N_A	20	17	17	17	16	17	15	15	14	42
	N	47	48	48	48	45	48	34	35	35	
	H_E	0.853	0.855	0.873	0.864	0.866	0.841	0.857	0.805	0.841	
	H_O	0.809	0.813	0.792	0.813	0.778	0.771	0.882	0.857	0.743	
	F_{IS}	0.053	0.050	0.094	0.061	0.103	0.084	-0.030	-0.065	0.118	
	R_S	13.749	13.294	13.108	12.413	11.679	11.633	12.623	11.428	11.875	
Ej41.1	N_A	15	16	16	11	12	13	12	12	13	24
	N	37	41	43	31	35	37	28	27	31	
	H_E	0.836	0.841	0.830	0.865	0.832	0.839	0.814	0.830	0.801	
	H_O	0.703	0.732	0.767	0.710	0.657	0.703	0.714	0.667	0.645	
	F_{IS}	0.162	0.132	0.076	0.182	0.213	0.164	0.124	0.200	0.197	
	R_S	12.227	12.524	11.904	10.284	10.469	11.181	10.656	11.213	11.263	
Ee10	N_A	23	19	24	22	21	22	16	21	18	36
	N	47	44	48	48	46	43	35	35	29	
	H_E	0.812	0.788	0.757	0.809	0.849	0.897	0.839	0.871	0.757	
	H_O	0.766	0.682	0.708	0.729	0.739	0.721	0.714	0.800	0.621	
	F_{IS}	0.058	0.136	0.065	0.100	0.131	0.199	0.150	0.083	0.182	
	R_S	16.046	13.900	14.820	14.724	16.497	17.522	13.482	16.259	15.208	
Ej27.1	N_A	27	23	25	28	24	26	24	26	20	35
	N	46	38	46	47	36	45	33	33	28	
	H_E	0.944	0.961	0.946	0.954	0.966	0.960	0.918	0.956	0.896	

Continued

Table S1 continued

		LSA	*LCA*	*LCR*	*ASA*	*ACA*	*ACR*	*BAA*	*PEB*	*JAB*	$N_{A\,TOT}$
	H_O	0.739	0.711	0.761	0.787	0.667	0.667	0.758	0.758	0.750	
	F_{IS}	0.219	0.263	0.197	0.176	0.313	0.308	0.177	0.210	0.166	
	R_S	19.555	20.457	19.955	21.024	21.732	21.099	19.148	21.707	17.846	
Ej35	N_A	15	14	15	14	17	12	14	15	9	23
	N	47	48	48	48	47	48	34	35	35	
	H_E	0.889	0.905	0.874	0.856	0.856	0.876	0.911	0.907	0.766	
	H_O	0.787	0.917	0.875	0.896	0.894	0.813	0.735	0.771	0.943	
	F_{IS}	0.116	-0.013	-0.001	-0.047	-0.020	0.041	0.195	0.151	-0.235	
	R_S	11.970	12.543	12.176	11.212	12.887	9.814	12.822	13.205	8.288	
Enja83	N_A	10	9	7	10	7	10	8	10	8	18
	N	28	36	31	41	34	30	32	27	34	
	H_E	0.827	0.758	0.753	0.815	0.771	0.848	0.768	0.838	0.639	
	H_O	0.536	0.583	0.613	0.683	0.588	0.633	0.625	0.593	0.882	
	F_{IS}	0.357	0.233	0.189	0.164	0.240	0.256	0.189	0.297	-0.388	
	R_S	9.778	8.333	6.971	8.663	6.754	9.586	7.564	9.412	6.507	
Ee2-507	N_A	28	27	25	29	31	26	21	22	16	38
	N	47	48	48	48	48	48	35	35	32	
	H_E	0.959	0.957	0.950	0.957	0.961	0.954	0.954	0.952	0.786	
	H_O	0.894	0.917	0.875	0.792	0.854	0.896	0.886	0.857	0.969	
	F_{IS}	0.068	0.043	0.080	0.174	0.112	0.061	0.072	0.101	-0.237	
	R_S	21.522	20.769	19.269	21.674	22.966	20.036	18.943	19.397	12.917	
Eja17	N_A	7	8	7	7	7	6	5	7	7	11
	N	39	48	33	48	42	36	30	26	26	
	H_E	0.709	0.696	0.753	0.757	0.806	0.748	0.736	0.787	0.608	
	H_O	0.615	0.625	0.606	0.625	0.738	0.639	0.633	0.654	0.385	
	F_{IS}	0.133	0.104	0.197	0.176	0.085	0.148	0.142	0.172	0.372	
	R_S	6.036	5.679	6.557	6.083	6.298	5.831	4.999	6.845	6.668	
Ej2	N_A	24	19	23	20	21	23	22	21	17	31
	N	47	48	46	48	48	44	35	35	33	
	H_E	0.946	0.940	0.934	0.923	0.945	0.947	0.952	0.943	0.940	
	H_O	0.957	0.833	0.804	0.813	0.813	0.727	0.971	0.829	0.758	
	F_{IS}	-0.012	0.114	0.140	0.121	0.141	0.234	-0.021	0.123	0.196	
	R_S	18.874	16.770	17.639	16.151	18.182	18.545	19.081	18.060	16.117	
Ee2-135	N_A	11	11	11	10	11	12	10	8	9	14
	N	47	48	47	48	47	47	35	35	34	
	H_E	0.868	0.876	0.844	0.872	0.866	0.873	0.867	0.828	0.841	
	H_O	0.872	0.771	0.830	0.813	0.851	0.766	0.829	0.857	0.794	
	F_{IS}	-0.005	0.121	0.017	0.069	0.017	0.124	0.045	-0.036	0.057	
	R_S	9.566	9.839	9.218	9.060	9.227	9.649	9.177	7.533	8.496	

Continued

Table S1 continued

		LSA	*LCA*	*LCR*	*ASA*	*ACA*	*ACR*	*BAA*	*PEB*	*JAB*	$N_{A\,TOT}$
Ee2-508	N_A	9	6	8	8	7	8	6	6	8	11
	N	41	47	36	33	40	37	23	25	35	
	H_E	0.568	0.570	0.636	0.657	0.627	0.668	0.691	0.661	0.645	
	H_O	0.463	0.532	0.500	0.485	0.550	0.514	0.478	0.480	0.571	
	F_{IS}	0.185	0.067	0.216	0.265	0.124	0.234	0.313	0.278	0.116	
	R_S	6.990	5.159	6.919	7.000	5.857	7.031	5.956	5.867	6.615	
Ee2-165b	N_A	4	4	8	5	5	5	4	6	5	9
	N	47	48	47	48	48	46	35	35	32	
	H_E	0.543	0.528	0.572	0.616	0.579	0.612	0.565	0.595	0.630	
	H_O	0.574	0.521	0.596	0.750	0.646	0.674	0.600	0.543	0.688	
	F_{IS}	-0.059	0.014	-0.042	-0.221	-0.117	-0.102	-0.063	0.089	-0.093	
	R_S	3.920	3.956	5.651	4.441	4.167	4.466	3.951	5.239	4.685	