

Supplementary Materials

Table S1. Morphometric data, Upper Jaw Index (UJI) and residuals of sixteen native Mediterranean trout of the Furittu stream (south eastern Sardinia) and one specimen from Neia river. L1. and L2 measurements used to calculate the Upper Jaw Index (UJI), (1) upper jaw depth (DUJ), (2) snout length (LS), (3) orbital horizontal diameter (HO), (4) head depth (HD), (5) orbital vertical diameter (VO), (6) length of maxilla (LM), (7) upper jaw length (LUJ), (8) lower jaw length (LLJ), (9) premaxilla to preoperculum length (LPP), (10) head length at upper jaw (LHU), (11) head length at lower jaw (LHL) and (12) operculum length (LO).

Trout	Location	TL	SL	TW	BL	BD	L1	L2	UJI	(1) DUJ	(2) LS	(3) HO	(4) HD	(5) VO	(6) LM	(7)LUJ	(8)LLJ	(9)LPP	(10)LHU	(11)LHL	(12)LO	Residual
1	Furittu	17.2	15.0	63.3	12.0	3.5	2.79	2.89	1.04	0.25	0.61	0.70	2.06	0.73	1.09	1.41	2.19	2.21	3.03	2.94	0.91	0.0065
2	Furittu	23.6	21.1	166.2	16.3	5.4	4.6	4.7	1.02	0.44	1.02	0.98	3.19	0.99	1.87	2.37	3.86	3.57	4.79	4.71	1.33	0.0009
3	Furittu	18.6	16.6	81.7	13.3	4.1	3.31	3.53	1.07	0.27	0.63	0.75	2.31	0.76	1.31	1.65	2.42	2.44	3.29	3.15	0.98	0.0027
4	Furittu	25.2	22.5	183.1	17.8	5.3	4.4	4.54	1.03	0.44	0.95	0.97	3.25	1.01	1.68	2.19	3.27	3.40	4.76	4.68	1.36	0.0151
5 **	Furittu	12.5	11.4	24.9	8.2	2.8	2.98	2.42	0.81	0.29	0.39	0.88	2.36	0.83	0.60	1.00	2.32	1.90	2.74	3.05	0.82	0.0060
6	Furittu	22.3	19.7	142.0	14.7	5.0	4.48	4.68	1.04	0.48	1.28	1.04	3.20	0.90	1.82	2.57	3.15	3.82	5.00	4.98	1.34	-0.0004
7	Furittu	21.6	19.2	130.1	14.9	4.6	3.85	3.98	1.03	0.42	0.93	0.93	2.90	0.87	1.69	2.15	3.67	3.14	4.26	4.17	1.20	-0.0013
8	Furittu	22.6	20.3	161.0	15.6	5.4	4.25	4.3	1.01	0.47	1.23	1.00	3.03	0.88	1.81	2.34	2.63	3.63	4.70	4.55	1.09	-0.0132
9	Furittu	17.3	15.6	75.2	12.4	3.7	2.92	3	1.03	0.32	0.66	0.78	2.19	0.76	1.20	1.52	2.22	2.38	3.21	3.19	0.86	-0.0165
10	Furittu	19.8	17.3	103.5	13.6	4.3	3.38	3.43	1.01	0.35	0.78	0.86	2.42	0.87	1.40	1.89	2.59	2.83	3.72	3.59	0.95	-0.0052
11	Furittu	22.1	19.7	134.0	15.1	4.7	4.24	4.35	1.03	0.43	1.11	0.98	3.10	0.88	1.82	2.44	3.12	3.64	4.58	4.55	1.02	0.0043
12	Furittu	21.1	18.5	122.6	13.8	4.7	4.4	4.48	1.02	0.46	1.39	0.92	3.31	0.83	1.88	2.64	3.63	3.69	4.76	4.71	1.09	-0.0026
13 *	Furittu	21.4	19.1	124.5	13.7	4.5	4.73	4.63	1.03	0.51	1.58	0.95	2.98	0.93	2.05	2.76	3.19	4.02	5.14	5.32	1.21	0.0012
14	Furittu	18.6	16.5	83.9	12.7	3.9	3.3	3.39	0.98	0.37	0.95	0.84	2.62	0.81	1.34	1.83	2.36	2.82	3.76	3.73	0.97	-0.0013
15	Furittu	18.6	16.5	88.4	12.4	4.1	3.62	3.69	1.02	0.38	1.13	0.88	2.63	0.81	1.62	2.09	2.41	3.06	4.15	4.05	1.13	-0.0090
16	Furittu	21.6	19.2	118.4	15.4	4.6	3.68	3.82	1.04	0.44	0.96	0.81	2.63	0.77	1.38	1.66	2.68	2.70	3.74	3.65	1.05	0.0127
17*	Neia	14.5	12.9	27.0	9.7	2.6	2.93	2.78	0.95	0.33	0.77	0.69	1.84	0.67	0.97	1.29	2.05	2.22	2.99	3.17	0.80	-0.0058

**denote severe jaw deformity (SJD)

* denote middle jaw deformity (MJD)

Table S2. Parentage analyses performed with COLONY for Riu Furittu population. We have chosen the Pair-Likelihood-Score (PLS)/Full-Likelihood (FL) combined (=FPLS) algorithm and used only full-sibs listing to give the results below.

FullSib Family	Prob(Inc.)	Prob(Exc.)	Member1	Member2
1	0.6497	0.1609	Furittu_11	Furittu_3
2	1	0.077	Furittu_12	
3	0.3976	0.3976	Furittu_13	Furittu_14
4	0.9315	0.3627	Furittu_15	Furittu_16
5	1	0.1987	Furittu_1	
6	1	0.533	Furittu_2	
7	1	1	Furittu_4	
8	1	0.0626	Furittu_5	