

## Supplementary material

**Table S1.** Summary of effects of temperature (control and high) and habitat complexity (high and low) on routine swimming speed and escape response of white seabream. The reference case for this experiment is the control temperature, high complexity habitat treatment. Tank is included as a random effect to account for shared variation among measurements from the same tank. Random effects associated with Tank represent the variation in tank means. Bold and \* *p*-values highlight significant effect ( $p < 0.05$ ).

Standard Length				
Fixed Effects				
Source	Estimate	SE	t	P
Intercept	3.282	0.091	36.154	< 0.0001*
Temperature	0.247	0.104	2.379	0.019*
Habitat	0.108	0.104	1.036	0.303
Random Effects				
Source		Variance		
Tank		0.000		
Residual		0.232		
Average Routine Speed				
Fixed Effects				
Source	Estimate	SE	t	P
Intercept	2.729	0.525	5.192	< 0.0001*
Temperature	0.098	0.152	0.646	0.519
Habitat	0.279	0.148	1.881	0.063
Standard Length	-0.611	0.157	-3.896	< 0.0001*
Random Effects				
Source		Variance		
Tank		0.000		
Residual		0.507		

Distance in routine speed				
Fixed Effects				
Source	Estimate	SE	t	P
Intercept	603.97	187.34	3.224	0.002*
Temperature	56.36	54.26	1.039	0.301
Habitat	130.97	52.91	2.475	0.015*
Standard Length	-111.75	55.91	-1.999	0.049*
Random Effects				
Source		Variance		
Tank		0.000		
Residual		6443		
Latency				
Fixed Effects				
Source	Estimate	SE	t	P
Intercept	34.213	15.338	2.231	0.028*
Temperature	-1.941	4.599	-0.422	0.689
Habitat	1.748	4.493	0.389	0.713
Standard Length	-3.443	4.519	-0.762	0.448
Random Effects				
Source		Variance		
Tank		3.244		
Residual		391.906		

Escape speed				
Fixed Effects				
Source	Estimate	SE	t	P
Intercept	5.328	0.934	5.707	< 0.0001*
Temperature	0.044	0.270	0.164	0.869
Habitat	0.268	0.263	1.017	0.312
Standard Length	-0.779	0.276	-2.827	0.006*
Random Effects				
Source		Variance		
Tank		0.000		
Residual		1.465		
Escape distance				
Fixed Effects				
Source	Estimate	SE	t	P
Intercept	3.752	1.411	2.659	0.009*
Temperature	0.130	0.408	0.319	0.750
Habitat	0.295	0.398	0.740	0.461
Standard Length	-0.269	0.417	-0.647	0.519
Random Effects				
Source		Variance		
Tank		0.000		
Residual		3.347		

**Table S2.** Summary of Chi-square results for the effects of temperature (control and high) and habitat complexity (high and low) on responsiveness and directionality of the escape response of white seabream. Bold and \* p-values highlight significant effect ( $p < 0.05$ ).

<b>Responsiveness</b>				
	$\chi^2$	df	N	p
Temperature	0.403	1	93	0.526
Habitat	5.172	1	88	<b>0.023*</b>
<b>Directionality</b>				
Temperature	0.382	1	93	0.527
Habitat	0.926	1	88	0.336