

**Table S1.** Factor loadings of active and supplementary (asterisked) variables as resulted from the Principal Component Analysis applied to detect differences in the vitality rate of twelve species of elasmobranchs sampled during a fishery independent trawl survey in the Asinara Gulf during June-October 2022.

Variable	Extracted Factors		
	1	2	3
Dead	0.916034	0.401043	-0.006758
Inactive	0.103955	-0.994571	-0.004641
Active	-0.961552	0.274534	-0.006940
*TL	-0.129174	-0.044903	-0.016858
*Mean depth	0.736540	0.010067	-0.003280
*Sharks	0.079007	0.375993	0.002949
*Skates	-0.079007	-0.375993	-0.002949