

Supplement 5.1. Loadings and explained variance of the PCAs performed on the behavioural parameters collected during three time intervals (Before, After1, After2) for the ON and OV experiments.

	ON: Before		ON: After1		ON: After2		OV: Before		OV: After1		OV: After2	
	PC1	PC2	PC1	PC2	PC1	PC2	PC1	PC2	PC1	PC2	PC1	PC2
ev	4.428	2.018	3.859	2.727	4.102	2.689	3.036	2.135	3.656	2.193	3.469	2.503
var	40.253	18.347	24.116	17.041	25.635	16.803	25.297	17.793	24.372	14.623	23.124	16.687
Chase	/	/	-0.173	0.302	-0.180	-0.174	/	/	-0.245	0.192	-0.175	-0.248
Flee	0.350	0.217	0.146	0.114	0.063	-0.080	0.172	-0.004	0.048	0.173	0.033	-0.119
Lateral	/	/	0.084	0.298	0.149	-0.200	/	/	-0.253	0.359	-0.153	-0.139
Frontal	/	/	-0.077	0.416	-0.133	-0.367	/	/	-0.326	0.270	-0.236	-0.330
Bite	/	/	-0.128	0.305	-0.132	-0.277	-0.083	0.278	-0.321	0.282	-0.314	0.285
Ram	0.273	0.125	0.184	0.163	0.190	-0.192	0.032	0.494	-0.116	0.321	-0.176	0.335
Sand	-0.084	-0.006	-0.213	-0.187	-0.182	0.055	-0.132	0.345	-0.022	-0.182	0.019	-0.118
Spasm	-0.022	0.479	-0.124	-0.148	-0.184	0.182	-0.063	-0.252	-0.138	-0.018	-0.253	0.372
Tail	/	/	0.036	0.093	0.087	-0.100	/	/	/	/	/	/
Flicker	-0.161	0.518	-0.170	-0.117	-0.060	0.311	-0.083	-0.023	-0.013	-0.212	-0.180	0.475
Dist.wall	0.179	-0.429	-0.040	-0.436	-0.002	0.491	0.294	-0.223	0.233	-0.268	0.096	-0.038
Dist.fish	0.128	-0.468	-0.101	-0.459	-0.068	0.526	0.253	-0.347	0.213	-0.088	0.223	0.401
Sp	0.451	0.112	0.470	-0.100	0.466	0.057	0.528	0.204	0.413	0.388	0.460	0.045
SpX	0.439	0.048	0.391	-0.082	0.397	0.089	0.372	0.405	0.318	0.324	0.339	-0.037
SpY	0.413	0.141	0.468	-0.104	0.464	0.037	0.524	0.064	0.405	0.370	0.458	0.085
Height	0.393	-0.024	0.436	0.080	0.444	-0.038	0.304	-0.340	0.310	0.013	0.258	0.229

Supplement 5.2. Loadings and explained variance of the CVAs performed on the behavioural parameters collected during three time intervals (Before, After1, After2) for the ON and OV experiments.

	ON: Before		ON: After1		ON: After2		OV: Before		OV: After1		OV: After2	
	CV1	CV2	CV1	CV2	CV1	CV2	CV1	CV2	CV1	CV2	CV1	CV2
ev	6.245	1.522	18.534	6.544	34.783	9.049	2.952	2.317	7.480	2.751	9.172	1.435
var	66.710	16.260	57.420	20.270	67.910	17.670	47.970	37.660	61.260	22.530	75.670	11.840
Chase	/	/	-0.037	-0.093	-0.023	-0.152	/	/	-0.096	-0.088	0.028	-0.957
Flee	0.191	-0.048	-0.047	-0.058	0.006	-0.052	-0.079	-0.011	-0.017	-0.208	0.038	-0.249
Lateral	/	/	-0.034	-0.024	-0.053	0.023	/	/	-0.027	-0.052	-0.013	-0.084
Frontal	/	/	-0.007	0.040	-0.020	-0.037	/	/	0.001	-0.131	-0.118	-0.585
Bite	/	/	-0.017	-0.232	-0.005	-0.205	0.154	-0.022	-0.079	-0.037	0.226	-0.205
Ram	-0.093	0.081	-0.021	0.115	-0.057	0.149	0.482	0.036	-8.836	0.468	15.582	-33.722
Sand	-0.026	0.359	-0.026	-0.235	-0.008	-0.181	0.307	-0.045	-0.032	0.057	0.199	-0.267
Spasm	0.067	0.326	-0.011	-0.158	0.021	-0.118	0.152	0.077	-0.195	0.342	0.981	-0.128
Tail	/	/	-0.094	0.054	-0.029	-0.149	/	/	/	/	/	/
Flicker	-0.035	-0.068	-0.019	-0.166	0.066	0.024	0.038	-0.006	-0.016	0.029	0.179	-0.019
Dist.wall	0.179	0.243	0.073	0.014	0.083	0.046	-1.152	1.353	4.367	4.229	0.558	1.016
Dist.fish	0.062	-0.056	0.128	0.016	0.118	0.081	-0.036	1.884	-0.110	0.364	0.074	0.292
Sp	0.200	0.052	-0.169	0.098	-0.114	0.108	-0.073	0.124	0.045	-0.096	-0.084	-0.064
SpX	0.162	0.079	-0.174	0.064	-0.097	0.034	0.061	0.044	0.008	-0.037	-0.016	-0.058
SpY	0.218	0.032	-0.149	0.109	-0.113	0.141	-0.140	0.116	0.047	-0.082	-0.086	-0.020
Height	0.149	-0.005	-0.082	0.041	-0.062	0.122	-3.494	7.228	1.603	3.055	-0.133	5.773