

Table S1. Overall animal data for object location memory testing

Test	Animal	Status	Discrimination Index	Exploration Time (s)
10 Days Post IHKA	1	Control	29.29293	4.95
10 Days Post IHKA	2	Control	20.59701	3.35
10 Days Post IHKA	3	Control	29.87013	3.08
10 Days Post IHKA	4	Control	35.66879	3.14
10 Days Post IHKA	5	Control	33.94495	4.36
10 Days Post IHKA	6	Control	27.53623	4.83
10 Days Post IHKA	7	IHKA	-1.84049	4.89
10 Days Post IHKA	8	IHKA	-21.85185	5.4
10 Days Post IHKA	9	IHKA	19.02439	4.1
10 Days Post IHKA	10	IHKA	2.15827	4.17
10 Days Post IHKA	11	IHKA	-10.4	5
10 Days Post IHKA	12	IHKA	2.39726	5.84
10 Days Post IHKA	13	IHKA	11.40065	3.07
10 Days Post IHKA	14	IHKA	18.71456	5.29
10 Days Post IHKA	15	IHKA	15.15152	3.96
10 Days Post IHKA	16	IHKA	24.4186	3.44
3-4 Months Post IHKA	1	Control	32.36152	3.43
3-4 Months Post IHKA	2	Control	24.51362	5.14
3-4 Months Post IHKA	3	Control	48.63014	2.92
3-4 Months Post IHKA	4	Control	39.04762	4.2
3-4 Months Post IHKA	5	Control	33.33333	3.57
3-4 Months Post IHKA	6	IHKA	27.92363	4.19
3-4 Months Post IHKA	7	IHKA	7.31707	2.87
3-4 Months Post IHKA	8	IHKA	4.80769	4.16
3-4 Months Post IHKA	9	IHKA	11.44279	4.02
3-4 Months Post IHKA	10	IHKA	1.4218	4.22
3-4 Months Post IHKA	11	IHKA	21.19816	4.34
3-4 Months Post IHKA	12	IHKA	10.6383	3.76
3-4 Months Post IHKA	13	IHKA	9.19881	3.37
3-4 Months Post IHKA	14	IHKA	5.05415	5.54
6-7 Months Post IHKA	1	Control	23.26284	6.62
6-7 Months Post IHKA	2	Control	38.72054	5.94
6-7 Months Post IHKA	3	Control	40.99217	3.83
6-7 Months Post IHKA	4	Control	28.76712	5.84
6-7 Months Post IHKA	5	Control	43.98564	5.57
6-7 Months Post IHKA	6	Control	11.06719	5.06
6-7 Months Post IHKA	7	Control	44.44444	5.76
6-7 Months Post IHKA	8	Control	9.93072	4.33
6-7 Months Post IHKA	9	Control	33.47023	4.87
6-7 Months Post IHKA	10	Control	46.8144	3.61
6-7 Months Post IHKA	11	Control	22.93987	4.49
6-7 Months Post IHKA	12	Control	6.51769	5.37
6-7 Months Post IHKA	13	Control	34.51327	4.52
6-7 Months Post IHKA	14	Control	43.13253	4.15
6-7 Months Post IHKA	15	IHKA	20.09456	4.23

6-7 Months Post IHKA	16	IHKA	9.67742	4.65
6-7 Months Post IHKA	17	IHKA	5.03282	4.57
6-7 Months Post IHKA	18	IHKA	12.34867	4.13
6-7 Months Post IHKA	19	IHKA	4.51436	7.31
6-7 Months Post IHKA	20	IHKA	1.14416	4.37
6-7 Months Post IHKA	21	IHKA	-0.63425	4.73
6-7 Months Post IHKA	22	IHKA	14.22846	4.99
6-7 Months Post IHKA	23	IHKA	8.25083	3.03

Female	1	IHKA	18.33333	4.8
Female	2	IHKA	-30.98237	3.97
Female	3	IHKA	10.60071	5.66
Female	4	IHKA	7.01754	4.56
Female	5	IHKA	19.92883	5.62
Female	6	IHKA	37.4677	3.87
Female	7	IHKA	-16.89751	3.61
Female	8	IHKA	20.09456	4.23
Female	9	IHKA	4.45104	3.37
Female	10	IHKA	2.23048	5.38
Female	11	IHKA	9.24092	6.06
Female	12	IHKA	22.89157	4.98
Female	13	IHKA	-9.12548	5.26
Female	14	IHKA	13.51351	3.7
Female	15	IHKA	27.42616	4.74
Female	16	IHKA	2.6087	4.6
Female	17	IHKA	9	6
Female	18	IHKA	6.25954	6.55
Female	19	IHKA	31.42857	5.6
Female	20	IHKA	16.81818	4.4
Female	21	IHKA	-14.83421	5.73
Female	22	IHKA	28.59961	5.07
Female	23	IHKA	1.62602	4.92
Male	1	IHKA	19.88131	3.37
Male	2	IHKA	12.62626	3.96
Male	3	IHKA	0.34843	2.87
Male	4	IHKA	2.75229	3.27
Male	5	IHKA	-6.12245	4.9
Male	6	IHKA	0.8596	3.49
Male	7	IHKA	-10.52632	4.18
Male	8	IHKA	23.24561	4.56
Male	9	IHKA	11.37441	4.22
Male	10	IHKA	19.03323	3.31
Male	11	IHKA	3.85604	3.89
Male	12	IHKA	5.32213	3.57
Male	13	IHKA	9.12698	5.04
Male	14	IHKA	9.67742	4.65
Male	15	IHKA	7.50751	3.33
Male	16	IHKA	6.60981	4.69

Male	17	IHKA	20.32967	3.64
Male	18	IHKA	5.03282	4.57
Male	19	IHKA	9.21228	7.49
Male	20	IHKA	-7.30051	5.89
Male	21	IHKA	8.78049	4.1
Male	22	IHKA	-15.26104	4.98
Male	23	IHKA	2.89017	5.19
Male	24	IHKA	4.63918	3.88
Male	25	IHKA	12.34867	4.13
Male	26	IHKA	4.51436	7.31
Male	27	IHKA	0.369	5.42
Female	1	Control	13.56589	5.16
Female	2	Control	32.65306	4.9
Female	3	Control	43.98564	5.57
Female	4	Control	43.13253	4.15
Female	5	Control	34.51327	4.52
Female	6	Control	23.56021	3.82
Female	7	Control	32.93886	5.07
Female	8	Control	49.59128	7.34
Female	9	Control	36.54917	5.39
Female	10	Control	35.89165	4.43
Female	11	Control	28.76712	5.84
Female	12	Control	39.33464	5.11
Female	13	Control	6.51769	5.37
Female	14	Control	25.41667	4.8
Female	15	Control	-2.5641	3.12
Female	16	Control	40.99217	3.83
Male	1	Control	46.8144	3.61
Male	2	Control	22.93987	4.49
Male	3	Control	36.75214	4.68
Male	4	Control	9.93072	4.33
Male	5	Control	44.44444	5.76
Male	6	Control	11.06719	5.06
Male	7	Control	40.12739	3.14
Male	8	Control	26.56587	4.63
Male	9	Control	31.68142	5.65
Male	10	Control	12.79621	4.22
Male	11	Control	33.47023	4.87
Male	12	Control	8.14332	3.07

OLM 1	1	Epileptic w/ light	19.92883	5.62
OLM 1	2	Epileptic w/ light	7.50751	3.33
OLM 1	3	Epileptic w/ light	9.12698	5.04
OLM 1	4	Epileptic w/ light	23.24561	4.56
OLM 1	5	Epileptic w/ light	-14.83421	5.73
OLM 1	6	Epileptic w/ light	5.32213	3.57
OLM 1	7	Epileptic w/ light	13.51351	3.7
OLM 1	8	Epileptic w/ light	3.85604	3.89

OLM 2	1	Epileptic w/ light	34.49275	3.45
OLM 2	2	Epileptic w/ light	7.84983	2.93
OLM 2	3	Epileptic w/ light	11.48459	3.57
OLM 2	4	Epileptic w/ light	14.65517	4.64
OLM 2	5	Epileptic w/ light	14.32881	6.63
OLM 2	6	Epileptic w/ light	36.38554	4.15
OLM 2	7	Epileptic w/ light	33.448	5.8
OLM 2	8	Epileptic w/ light	17.605	5.68
OLM 1	1	Epileptic w/o light	19.03323	3.31
OLM 1	2	Epileptic w/o light	20.32967	3.64
OLM 1	3	Epileptic w/o light	-6.12245	4.9
OLM 1	4	Epileptic w/o light	2.75229	3.27
OLM 1	5	Epileptic w/o light	-9.12548	5.26
OLM 1	6	Epileptic w/o light	22.89157	4.98
OLM 1	7	Epileptic w/o light	0.8596	3.49
OLM 1	8	Epileptic w/o light	-7.30051	5.89
OLM 1	9	Epileptic w/o light	9.24092	6.06
OLM 1	10	Epileptic w/o light	12.62626	3.96
OLM 1	11	Epileptic w/o light	2.6087	4.6
OLM 1	12	Epileptic w/o light	2.23048	5.38
OLM 1	13	Epileptic w/o light	20.09456	4.23
OLM 1	14	Epileptic w/o light	6.25954	6.55
OLM 1	15	Epileptic w/o light	19.88131	3.37
OLM 1	16	Epileptic w/o light	4.45104	3.37
OLM 1	17	Epileptic w/o light	31.42857	5.6
OLM 1	18	Epileptic w/o light	18.33333	4.8
OLM 2	1	Epileptic w/o light	10.88435	2.94
OLM 2	2	Epileptic w/o light	18.63517	3.81
OLM 2	3	Epileptic w/o light	31.85841	4.52
OLM 2	4	Epileptic w/o light	-22.76786	4.48
OLM 2	5	Epileptic w/o light	-0.71174	5.62
OLM 2	6	Epileptic w/o light	13.78092	2.83
OLM 2	7	Epileptic w/o light	11.55779	5.97
OLM 2	8	Epileptic w/o light	-13.38583	6.35
OLM 2	9	Epileptic w/o light	14.45783	4.98
OLM 2	10	Epileptic w/o light	14.28571	3.57
OLM 2	11	Epileptic w/o light	34.17191	4.77
OLM 2	12	Epileptic w/o light	17.07317	6.56
OLM 2	13	Epileptic w/o light	-10.3139	4.46
OLM 2	14	Epileptic w/o light	13.42756	5.66
OLM 2	15	Epileptic w/o light	20.2046	3.91
OLM 2	16	Epileptic w/o light	-12.5	3.52
OLM 2	17	Epileptic w/o light	-10.67961	3.09
OLM 2	18	Epileptic w/o light	23.31407	5.19
OLM 1	1	Nonepileptic	17.05426	5.16
OLM 1	2	Nonepileptic	-13.64653	4.47
OLM 1	3	Nonepileptic	17.84703	3.53
OLM 1	4	Nonepileptic	12.79621	4.22

OLM 1	5	Nonepileptic	13.56589	5.16
OLM 1	6	Nonepileptic	39.33464	5.11
OLM 1	7	Nonepileptic	31.68142	5.65
OLM 1	8	Nonepileptic	41.44144	4.44
OLM 1	9	Nonepileptic	-2.5641	3.12
OLM 1	10	Nonepileptic	25.41667	4.8
OLM 1	11	Nonepileptic	35.89165	4.43
OLM 1	12	Nonepileptic	49.59128	7.34
OLM 1	13	Nonepileptic	32.93886	5.07
OLM 1	14	Nonepileptic	36.54917	5.39
OLM 1	15	Nonepileptic	32.65306	4.9
OLM 1	16	Nonepileptic	23.26284	6.62
OLM 1	17	Nonepileptic	38.72054	5.94
OLM 1	18	Nonepileptic	40.99217	3.83
OLM 1	19	Nonepileptic	28.76712	5.84
OLM 1	20	Nonepileptic	43.98564	5.57
OLM 1	21	Nonepileptic	11.06719	5.06
OLM 1	22	Nonepileptic	44.44444	5.76
OLM 1	23	Nonepileptic	9.93072	4.33
OLM 1	24	Nonepileptic	33.47023	4.87
OLM 1	25	Nonepileptic	46.8144	3.61
OLM 1	26	Nonepileptic	22.93987	4.49
OLM 1	27	Nonepileptic	6.51769	5.37
OLM 1	28	Nonepileptic	34.51327	4.52
OLM 1	29	Nonepileptic	43.13253	4.15
OLM 1	30	Nonepileptic	40.12739	3.14
OLM 1	31	Nonepileptic	8.14332	3.07
OLM 1	32	Nonepileptic	26.56587	4.63
OLM 1	33	Nonepileptic	36.75214	4.68
OLM 1	34	Nonepileptic	23.56021	3.82
OLM 2	1	Nonepileptic	9.03614	3.32
OLM 2	2	Nonepileptic	-9.96979	3.31
OLM 2	3	Nonepileptic	17.32523	3.29
OLM 2	4	Nonepileptic	17.51412	3.54
OLM 2	5	Nonepileptic	8.93372	3.47
OLM 2	6	Nonepileptic	34.36123	4.54
OLM 2	7	Nonepileptic	42.91755	4.73
OLM 2	8	Nonepileptic	23.58318	5.47
OLM 2	9	Nonepileptic	-8.51852	5.4
OLM 2	10	Nonepileptic	26.54746	7.27
OLM 2	11	Nonepileptic	29.55752	5.65
OLM 2	12	Nonepileptic	36.66667	7.8
OLM 2	13	Nonepileptic	27.64858	3.87
OLM 2	14	Nonepileptic	27.53623	3.45
OLM 2	15	Nonepileptic	44.91979	3.74
OLM 2	16	Nonepileptic	19.91614	4.77
OLM 2	17	Nonepileptic	27.97428	6.22
OLM 2	18	Nonepileptic	40.88398	3.62

OLM 2	19	Nonepileptic	14.40678	4.72
OLM 2	20	Nonepileptic	27.32026	7.65
OLM 2	21	Nonepileptic	18.77729	4.58
OLM 2	22	Nonepileptic	37.07865	5.34
OLM 2	23	Nonepileptic	21.75649	5.01
OLM 2	24	Nonepileptic	41.4966	2.94
OLM 2	25	Nonepileptic	23.45013	3.71
OLM 2	26	Nonepileptic	25.52083	3.84
OLM 2	27	Nonepileptic	0.45045	4.44
OLM 2	28	Nonepileptic	-3.48837	3.44
OLM 2	29	Nonepileptic	20.7824	4.09
OLM 2	30	Nonepileptic	18.30986	2.84
OLM 2	31	Nonepileptic	20.14134	2.83
OLM 2	32	Nonepileptic	8.70588	4.25
OLM 2	33	Nonepileptic	35.34743	3.31
OLM 2	34	Nonepileptic	11.74377	2.81