

## Supplementary material

**Appendix S1** Mixed effects logistic regression models for Hamilton with no interaction terms (cf. Table 3). Significant effects ( $P < 0.05$ ) are in bold typeface. Reference levels for factors are in parenthesis.

Factor	Estimate	z value	p-value
<i>Rat tracking index</i>			
Time period (before)	-0.23 ± 0.57	-0.406	0.685
<b>Treatment (non-treatment)</b>	<b>2.27 ± 0.63</b>	<b>3.577</b>	<b>&lt; 0.001</b>
Season (autumn)	-0.56 ± 0.44	-1.283	0.199
<i>Mouse tracking index</i>			
Time period (before)	-1.38 ± 1.10	-1.255	0.209
Treatment (non-treatment)	0.71 ± 0.53	1.336	0.181
<b>Season (autumn)</b>	<b>-1.85 ± 0.50</b>	<b>-3.721</b>	<b>&lt; 0.001</b>

Removal of the interaction term made negligible difference to the estimates and p-values of the full model reported in Table 3, hence we conclude that the results of the main effects of Table 3 are robust.