

Table 2

Exploration session (Brain Region)	Metric	Time-Window ANOVA Statistics	Paired t-test against 0
Open Field 1 (HC)	Delta/beta2 MI time window comparison	$F_{3,8} = 5.67, p = 0.004$	Win1 - $t_{2,8}=3.13, p= 0.018$
			Win2 - $t_{2,8}=3.56, p= 0.014$
			Win3 - $t_{2,8}=3.82, p= 0.014$
			Win4 - $t_{2,8}=2.91, p= 0.019$
Open Field 1 (HC)	Delta/lowG MI time window comparison	$F_{3,8} = 3.69, p = 0.025$	Win1 - $t_{2,8}=3.72, p= 0.011$
			Win2 - $t_{2,8}=4.03, p= 0.011$
			Win3 - $t_{2,8}=3.08, p= 0.019$
			Win4 - $t_{2,8}=2.87, p= 0.020$
Open Field 1 (HC)	Theta/beta2 MI time window comparison	$F_{3,8} = 7.33, p = 0.001$	Win1 - $t_{2,8}=4.97, p= 0.004$
			Win2 - $t_{2,8}=4.17, p= 0.006$
			Win3 - $t_{2,8}=3.47, p= 0.011$
			Win4 - $t_{2,8}=1.74, p= 0.12$
Open Field 1 (HC)	Theta/lowG MI time window comparison	$F_{3,8} = 8.51, p = 0.0004$	Win1 - $t_{2,8}=4.85, p= 0.002$
			Win2 - $t_{2,8}=4.47, p= 0.002$
			Win3 - $t_{2,8}=4.74, p= 0.002$
			Win4 - $t_{2,8}=3.80, p= 0.005$
Open Field 1 (HC)	Theta/midG MI time window comparison	$F_{3,6} = 1.74, p = 0.18$	Win1 - $t_{2,8}=3.01, p= 0.020$
			Win2 - $t_{2,8}=2.96, p= 0.021$
			Win3 - $t_{2,8}=4.74, p= 0.021$
			Win4 - $t_{2,8}=2.93, p= 0.021$
Object 1 (HC)	Delta/beta2 MI time window comparison	$F_{3,6} = 2.53, p = 0.08$	Win1 - $t_{2,8}=2.78, p= 0.027$
			Win2 - $t_{2,8}=2.62, p= 0.034$
			Win3 - $t_{2,8}=2.97, p= 0.027$
			Win4 - $t_{2,8}=3.28, p= 0.013$
Object 1 (HC)	Delta/lowG MI time window comparison	$F_{3,6} = 1.44, p = 0.25$	Win1 - $t_{2,8}=6.98, p= 0.001$
			Win2 - $t_{2,8}=5.20, p= 0.005$
			Win3 - $t_{2,8}=3.31, p= 0.021$
			Win4 - $t_{2,8}=3.11, p= 0.017$
Object 1 (HC)	Theta/beta2 MI time window comparison	$F_{3,6} = 3.83, p = 0.02$	Win1 - $t_{2,8}=3.75, p= 0.007$
			Win2 - $t_{2,8}=3.07, p= 0.017$
			Win3 - $t_{2,8}=2.28, p= 0.056$
			Win4 - $t_{2,8}=3.13, p= 0.016$
Object 1 (HC)	Theta/lowG MI time window comparison	$F_{3,6} = 4.13, p = 0.01;$	Win1 - $t_{2,8}=5.36, p= 0.001$
			Win2 - $t_{2,8}=4.24, p= 0.003$
			Win3 - $t_{2,8}=5.11, p= 0.001$
			Win4 - $t_{2,8}=3.61, p= 0.008$
Object 1 (HC)	Theta/midG MI time window comparison	$F_{3,6} = 0.40, p = 0.74$	Win1 - $t_{2,8}=4.03, p= 0.002$
			Win2 - $t_{2,8}=2.37, p= 0.030$
			Win3 - $t_{2,8}=2.51, p= 0.028$
			Win4 - $t_{2,8}=3.35, p= 0.008$

Table 2 – Table of statistics related to figure 2. Descriptive statistics and comparisons with different MI time window analysis and the comparison with null hypothesis 0. Black: Significant p values, Red: non-significant p values.