

Table 3

*OpenField 1 Session*

<i>Exploration session</i>	Metric	Time-Window ANOVA Statistics	Paired t-test against 0
<i>Open Field 1 mPFC</i>	<b>Beta2 Power</b> time-window comparison	( $F_{3,8} = 6.53, p = 0.002$ )	
<i>Open Field 1 mPFC</i>	<b>Delta/beta2 MI</b> time window comparison	$F_{3,8} = 11.4, p = 0.00007$	Win1 - $t_{2,8}=4.09, p= 0.003$ Win2 - $t_{2,8}=3.56, p= 0.026$ <b>Win3 - <math>t_{2,8}=3.82, p= 0.237</math></b> <b>Win4 - <math>t_{2,8}=2.91, p= 0.501</math></b>
<i>Open Field 1 mPFC</i>	<b>Delta/lowG MI</b> time window comparison	$F_{3,8} = 4.85, p = 0.0088$	Win1 - $t_{2,8}=2.71, p= 0.026$ Win2 - $t_{2,8}=4.03, p= 0.033$ <b>Win3 - <math>t_{2,8}=3.08, p= 0.22</math></b> <b>Win4 - <math>t_{2,8}=2.87, p= 0.67</math></b>
<i>Open Field 1 mPFC</i>	<b>Theta/beta2 MI</b> time window comparison	$F_{3,8} = 11.42, p > 0.0001$	Win1 - $t_{2,8}=3.81, p= 0.005$ Win2 - $t_{2,8}=3.01, p= 0.016$ <b>Win3 - <math>t_{2,8}=1.03, p= 0.32</math></b> <b>Win4 - <math>t_{2,8}=0.13, p= 0.89</math></b>
<i>Open Field 1 mPFC</i>	<b>Theta/lowG MI</b> time window comparison	$F_{3,8} = 5.06, p = 0.007$	Win1 - $t_{2,8}=2.97, p= 0.017$ Win2 - $t_{2,8}=2.98, p= 0.017$ Win3 - $t_{2,8}=2.52, p= 0.035$ <b>Win4 - <math>t_{2,8}=1.75, p= 0.116</math></b>
<i>Open Field 1 mPFC</i>	<b>Theta/midG MI</b> time window comparison	<b><math>F_{3,8} = 2.72, p = 0.066</math></b>	Win1 - $t_{2,8}=2.36, p= 0.045$ Win2 - $t_{2,8}=2.48, p= 0.038$ Win3 - $t_{2,8}=2.63, p= 0.030$ Win4 - $t_{2,8}=2.88, p= 0.020$
<i>Open Field 1 PAR</i>	<b>Beta2 Power</b> time-window comparison	( $F_{3,8} = 1.07, p = 0.38$ )	
<i>Open Field 1 PAR</i>	<b>Delta/beta2 MI</b> time window comparison	$F_{3,6}= 14.62, p > 0.0001$	Win1 - $t_{2,8}=3.35, p= 0.006$ <b>Win2 - <math>t_{2,8}=2.65, p= 0.058</math></b> <b>Win3 - <math>t_{2,8}=2.20, p= 0.213</math></b> <b>Win4 - <math>t_{2,8}=1.36, p= 0.746</math></b>
<i>Open Field 1 PAR</i>	<b>Delta/lowG MI</b> time window comparison	$F_{3,6} = 8.09, p = 0.0006$	Win1 - $t_{2,8}=2.67, p= 0.028$ <b>Win2 - <math>t_{2,8}=1.80, p=0.108</math></b> <b>Win3 - <math>t_{2,8}=3.31, p= 0.122</math></b> <b>Win4 - <math>t_{2,8}=0.09, p= 0.929</math></b>
<i>Open Field 1 PAR</i>	<b>Theta/beta2 MI</b> time window comparison	$F_{3,6}= 21.03, p > 0.0001$	Win1 - $t_{2,8}=5.15,p=0.0009$ Win2 - $t_{2,8}=3.33, p= 0.010$ <b>Win3 - <math>t_{2,8}=1.77, p= 0.113</math></b> <b>Win4 - <math>t_{2,8}=-0.20, p=0.845</math></b>
<i>Open Field 1</i>		$F_{3,6}= 8.56, p = 0.0004;$	Win1 - $t_{2,8}=3.12, p= 0.014$

<b>PAR</b>	<b>Theta/lowG MI time window comparison</b>		Win2 - $t_{2,8}=2.20$ , p = 0.058 Win3 - $t_{2,8}=1.80$ , p = 0.109 Win4 - $t_{2,8}=1.43$ , p = 0.189
<b>Open Field 1 PAR</b>	<b>Theta/midG MI time window comparison</b>	F3,6 = 3.98, p = 0.019	Win1 - $t_{2,8}=3.26$ , p = 0.011 Win2 - $t_{2,8}=3.39$ , p = 0.009 Win3 - $t_{2,8}=3.49$ , p = 0.008 Win4 - $t_{2,8}=3.28$ , p = 0.011
<b>Object 1 Session</b>			
<i>Exploration session</i>	<b>Metric</b>	<b>Time-Window ANOVA Statistics</b>	<b>Paired t-test against 0</b>
<b>Object 1 mPFC</b>	<b>Beta2 Power</b> time-window comparison	(F <sub>3,6</sub> = 2.4, p = 0.10)	
<b>Object 1 mPFC</b>	<b>Delta/beta2</b> MI time window comparison	F <sub>3,6</sub> = 3.97, p = 0.021	Win1 - $t_{2,7}=2.65$ , p = 0.040 Win2 - $t_{2,7}=2.14$ , p = 0.094 Win3 - $t_{2,7}=0.82$ , p = 0.253 Win4 - $t_{2,7}=2.13$ , p = 0.034
<b>Object 1 mPFC</b>	<b>Delta/lowG</b> MI time window comparison	F <sub>3,6</sub> = 0.99, p = 0.41	Win1 - $t_{2,7}=2.18$ , p = 0.065 Win2 - $t_{2,7}=2.28$ , p = 0.056 Win3 - $t_{2,7}=2.14$ , p = 0.068 Win4 - $t_{2,7}=2.73$ , p = 0.029
<b>Object 1 mPFC</b>	<b>Theta/beta2</b> MI time window comparison	F <sub>3,6</sub> = 5.45, p > 0.006	Win1 - $t_{2,7}=4.41$ , p = 0.003 Win2 - $t_{2,7}=2.70$ , p = 0.027 Win3 - $t_{2,7}=1.68$ , p = 0.144 Win4 - $t_{2,7}=2.13$ , p = 0.070
<b>Object 1 mPFC</b>	<b>Theta/lowG</b> MI time window comparison	F <sub>3,6</sub> = 1.21, p = 0.330	Win1 - $t_{2,8}=2.97$ , p = 0.040 Win2 - $t_{2,8}=2.98$ , p = 0.046 Win3 - $t_{2,8}=2.52$ , p = 0.033 Win4 - $t_{2,8}=1.75$ , p = 0.032
<b>Object 1 mPFC</b>	<b>Theta/midG</b> MI time window comparison	F <sub>3,6</sub> = 1.45, p = 0.254	Win1 - $t_{2,8}=2.58$ , p = 0.037 Win2 - $t_{2,8}=1.86$ , p = 0.104 Win3 - $t_{2,8}=2.05$ , p = 0.079 Win4 - $t_{2,8}=2.88$ , p = 0.021
<b>Object 1 PAR</b>	<b>Beta2 Power</b> time-window comparison	(F <sub>3,6</sub> = 1.16, p = 0.35)	
<b>Object 1 PAR</b>	<b>Delta/beta2</b> MI time window comparison	F <sub>3,6</sub> = 2.95, p = 0.060	Win1 - $t_{2,8}=3.55$ , p = 0.012 Win2 - $t_{2,8}=2.65$ , p = 0.255 Win3 - $t_{2,8}=2.20$ , p = 0.323 Win4 - $t_{2,8}=1.36$ , p = 0.941
<b>Object 1 PAR</b>	<b>Delta/lowG</b> MI time window comparison	F <sub>3,6</sub> = 1.79, p = 0.18	Win1 - $t_{2,8}=2.16$ , p = 0.073 Win2 - $t_{2,8}=1.80$ , p = 0.308 Win3 - $t_{2,8}=3.31$ , p = 0.106 Win4 - $t_{2,8}=0.09$ , p = 0.880

<b>Object 1 PAR</b>	<b>Theta/beta2</b> MI time window comparison	$F_{3,6} = 0.57, p = 0.64$	Win1 - $t_{2,8}=2.26, p= 0.063$
			Win2 - $t_{2,8}=1.15, p= 0.290$
			Win3 - $t_{2,8}=2.80, p= 0.030$
			Win4 - $t_{2,8}=1.19, p= 0.278$
<b>Object 1 PAR</b>	<b>Theta/lowG</b> MI time window comparison	$F_{3,6} = 0.58, p = 0.63$	Win1 - $t_{2,8}=2.26, p= 0.173$
			Win2 - $t_{2,8}=1.15, p= 0.451$
			Win3 - $t_{2,8}=2.80, p= 0.079$
			Win4 - $t_{2,8}=1.19, p= 0.087$
<b>Object 1 PAR</b>	<b>Theta/midG</b> MI time window comparison	$F_{3,6} = 1.37, p = 0.28$	Win1 - $t_{2,8}=3.26, p= 0.127$
			Win2 - $t_{2,8}=3.39, p= 0.221$
			Win3 - $t_{2,8}=3.49, p= 0.075$
			Win4 - $t_{2,8}=3.28, p= 0.100$

Table 3 – Table of statistics related to figure 6. 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.