

Figure 1		ANOVA							
		F	P value (inter-group)	P value (pairwise comparisons, Dunnett T3 test)					
				versus PBS (0 uM)					
				0.5 $\mu$ M P2	1 $\mu$ M P2	2 $\mu$ M P2	5 $\mu$ M P2	10 $\mu$ M P2	20 $\mu$ M P2
1A	24h	24.774	< <b>0.001</b>	<b>0.015</b>	<b>0.020</b>	<b>0.019</b>	1.000	0.539	0.208
	48h	24.751	< <b>0.001</b>	0.211	<b>0.037</b>	0.099	0.157	<b>0.002</b>	<b>0.003</b>
	72h	22.882	< <b>0.001</b>	0.937	<b>0.014</b>	0.138	1.000	0.773	0.873
1B	OGD	21.998	< <b>0.001</b>	< <b>0.001</b>	< <b>0.001</b>	0.057	0.485		

Figure 1E		ANOVA				
		F	P value (inter-group)	P value (pairwise comparisons, LSD test)		
				versus BMSC+PBS		versus BMSC+P2
				BMSC+P2	BMSC+P2+ERKI	BMSC+P2+ERKI
	p-ERK	29.426	< 0.001	< 0.001	0.009	< 0.001
	ERK	0.277	0.762	0.544	0.515	1.000
				BMSC+P2	BMSC+P2+PI3KI	BMSC+P2+PI3KI
	p-AKT	27.901	< 0.001	< 0.001	0.013	< 0.001
AKT	3.103	0.075	0.611	0.084	0.078	

Figure 1F	ANOVA								
	F	P value (inter-group)	P value (pairwise comparisons, LSD test)						
			versus BMSC+PBS				versus BMSC+P2		
			P2	P2+ERKI	P2+PI3KI	P2+DMSO	P2+ERKI	P2+PI3KI	P2+DMSO
			< <b>0.001</b>	<b>0.031</b>	0.659	< <b>0.001</b>	< <b>0.001</b>	< <b>0.001</b>	0.319

Figure 2			ANOVA										
			F	P value (inter-group)	P value (pairwise comparisons, LSD test)								
					versus control (non-OGD)					versus OGD+ PBS (0 μM P2)			
					OGD+ 0 uM P2	OGD+ 0.5 uM P2	OGD+ 1 uM P2	OGD+ 2 uM P2	OGD+ 5 uM P2	OGD+ 0.5 uM P2	OGD+ 1 uM P2	OGD+ 2 uM P2	OGD+ 5 uM P2
2B			19.755	< 0.001	< 0.001	0.024	0.033	0.001	< 0.001	< 0.001	< 0.001	0.001	0.053
2C					versus OGD+PBS				versus OGD+P2				
					P2	P2+ERKI	P2+PI3KI	P2+DMSO		P2+ERKI	P2+PI3KI	P2+DMSO	
			17.398	< 0.001	< 0.001	0.368	0.130	< 0.001		< 0.001	< 0.001	0.229	
2D					versus control (non-OGD)				versus OGD+PBS				
					OGD+PBS		OGD+P2			OGD+P2			
			103.904	< 0.001	< 0.001		0.001			< 0.001			
2F				versus control (non-OGD)				versus OGD+P2					
				OGD	OGD+P2	OGD+P2+ERKI		OGD+P2+PI3KI		OGD	OGD+P2+ERKI		OGD+P2+PI3KI
	CC3	17.155	< 0.001	< 0.001	0.002	< 0.001		< 0.001	< 0.001	0.029	0.021		
	CC9	4.333	< 0.001	0.004	0.934	0.011		0.103	0.005	0.013	0.120		
	Bax	8.140	< 0.001	0.015	0.917	0.008		< 0.001	0.019	0.010	< 0.001		
	Bcl-2	12.856	< 0.001	< 0.001	0.298	< 0.001		< 0.001	0.003	0.005	< 0.001		

Figure 3	ANOVA											
	F	P value (inter-group)	P value (pairwise comparisons, LSD test)									
			versus M+NS						versus M+P2+B			
			SHAM	M+B	M+P2	M+P2+B	M+P2+B+ERKI	M+P2+B+PI3KI	M+B	M+P2	M+P2+B+ERKI	M+P2+B+PI3KI
	27.406	< 0.001	< 0.001	0.059	0.014	< 0.001	0.311	0.110	0.040	0.140	< 0.001	< 0.001

M: MCAO; B: BMSC.

Figure 4B	Kruskal-Wallis test												
		Test value	P value (inter-group)	P value (pairwise comparisons, Bonferroni test)									
				versus SHAM				versus M+NS			versus M+B		versus M+P2
				M+NS	M+B	M+P2	M+P2+B	M+B	M+P2	M+P2+B	M+P2	M+P2+B	M+P2+B
	BDNF	8.801	0.066	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	GDNF	15.037	0.005	1.000	1.000	0.049	0.024	1.000	0.284	0.165	0.472	0.284	1.000
	IGF-1	22.525	< 0.001	1.000	0.022	0.247	< 0.001	0.520	1.000	0.017	1.000	1.000	0.472
	VEGF	15.789	0.003	1.000	0.159	0.936	1.000	1.000	1.000	0.147	1.000	0.004	0.049
	NGF	7.762	0.101	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

M: MCAO; B: BMSC. NA: not available.

Figure 4D	ANOVA												
		F	P value (inter-group)	P value (pairwise comparisons, LSD test)									
				versus SHAM				versus M+NS			versus M+B		versus M+P2
				M+NS	M+B	M+P2	M+P2+B	M+B	M+P2	M+P2+B	M+P2	M+P2+B	M+P2+B
	BDNF	8.475	< 0.001	0.539	0.015	0.002	< 0.001	0.065	0.009	< 0.001	0.364	0.025	0.138
	GDNF	8.812	< 0.001	0.898	0.233	0.060	< 0.001	0.208	0.055	< 0.001	0.472	0.001	0.004
	IGF1	6.816	0.001	0.683	0.038	0.028	< 0.001	0.020	0.015	< 0.001	0.885	0.052	0.068
	VEGF	1.645	0.202	0.749	0.143	0.060	0.085	0.264	0.125	0.163	0.657	0.719	0.952
	NGF	1.507	0.238	0.674	0.399	0.369	0.072	0.232	0.212	0.038	0.956	0.305	0.329

M: MCAO; B: BMSC.

Figure 5	ANOVA							
	F	P value (inter-group)	P value (pairwise comparisons, LSD test)					
			versus MCAO+NS			versus MCAO+BMSC	versus MCAO+P2+BMSC	
			MCAO+BMSC	MCAO+P2	MCAO+P2+BMSC	MCAO+P2	MCAO+P2	MCAO+BMSC
5B	0.358	0.784	0.601	0.398	0.367	0.743	0.954	0.700
5C	4.755	0.012	0.224	0.060	0.001	0.470	0.105	0.024

Figure 6A		Test value	P value (inter-group)	P value (pairwise comparisons)														
				versus M+NS						versus M+B				versus M+P2			versus M+P2+B	
				SHAM	M+B	M+P2	M+P2+B	M+P2+B+ERKI	M+P2+B+PI3KI	M+P2	M+P2+B	M+P2+B+ERKI	M+P2+B+PI3KI	M+P2+B	M+P2+B+ERKI	M+P2+B+PI3KI	M+P2+B+ERKI	M+P2+B+PI3KI
Forelimb	Baseline	1.467 <sup>a</sup>	0.962	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1d	10.721 <sup>b</sup>	< 0.001	< 0.001	0.986	0.978	0.976	0.644	0.929	0.992	0.962	0.657	0.943	0.954	0.664	0.951	0.623	0.905
	7d	12.472 <sup>b</sup>	< 0.001	< 0.001	0.113	0.397	0.055	0.350	0.196	0.447	0.652	0.502	0.761	0.229	0.929	0.647	0.264	0.451
	14d	17.527 <sup>b</sup>	< 0.001	< 0.001	0.001	0.060	< 0.001	0.301	0.141	0.115	0.117	0.017	0.047	0.003	0.378	0.664	< 0.001	0.001
Hindlimb	Baseline	5.370 <sup>a</sup>	0.497	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1d	9.061 <sup>b</sup>	< 0.001	< 0.001	0.935	0.489	0.551	0.784	0.487	0.439	0.498	0.721	0.437	0.923	0.675	0.997	0.746	0.920
	7d	6.745 <sup>b</sup>	< 0.001	< 0.001	0.317	0.727	0.598	0.734	0.982	0.511	0.631	0.505	0.327	0.858	0.992	0.743	0.850	0.613
	14d	12.934 <sup>b</sup>	< 0.001	< 0.001	0.043	0.081	< 0.001	0.809	0.821	0.763	0.047	0.025	0.026	0.024	0.049	0.049	< 0.001	< 0.001
Adhesive tape	Baseline	0.662 <sup>b</sup>	0.680	0.784	0.413	0.784	0.340	0.681	0.681	0.584	0.891	0.222	0.222	0.494	0.494	0.494	0.176	0.176
	1d	2.361 <sup>b</sup>	0.051	0.006	0.920	0.716	0.796	0.975	0.971	0.643	0.720	0.895	0.891	0.916	0.739	0.743	0.820	0.824

removal	7d	2.378 <sup>b</sup>	0.050	<b>0.018</b>	0.613	0.623	0.152	0.629	0.607	0.988	0.348	0.325	0.310	0.340	0.332	0.317	0.059	0.055
	14d	5.826 <sup>b</sup>	< <b>0.001</b>	<b>0.002</b>	0.502	0.108	<b>0.002</b>	0.575	0.543	0.339	<b>0.012</b>	0.222	0.205	0.105	<b>0.033</b>	<b>0.030</b>	< <b>0.001</b>	< <b>0.001</b>

<sup>a</sup> Kruskal-Wallis test; <sup>b</sup> ANOVA test.

Figure 6B		ANOVA											
		F	P value (inter-group)	P value (pairwise comparisons, LSD test)									
				versus SHAM				versus M+NS			versus M+B		versus M+P2
				M+NS	M+B	M+P2	M+P2+B	M+B	M+P2	M+P2+B	M+P2	M+P2+B	M+P2+B
	p-ERK	15.751	< <b>0.001</b>	0.928	0.423	< <b>0.001</b>	< <b>0.001</b>	0.374	< <b>0.001</b>	< <b>0.001</b>	<b>0.001</b>	< <b>0.001</b>	0.438
	ERK	0.141	0.965	0.772	0.810	0.760	0.834	0.597	0.987	0.618	0.586	0.975	0.607
	p-AKT	15.150	< <b>0.001</b>	0.657	0.359	< <b>0.001</b>	< <b>0.001</b>	0.631	<b>0.001</b>	< <b>0.001</b>	<b>0.002</b>	< <b>0.001</b>	0.094
	AKT	0.488	0.744	0.939	0.254	0.430	0.615	0.286	0.474	0.669	0.717	0.515	0.770

M: MCAO; B: BMSC.

Figure 6C		ANOVA										
		F	P value (inter-group)	P value (pairwise comparisons, LSD test)								
				versus SHAM				versus M+NS			versus M+P2+B	
				M+NS	M+P2+B	M+P2+B+ERKI	M+P2+B+PI3KI	M+P2+B	M+P2+B+ERKI	M+P2+B+PI3KI	M+P2+B+ERKI	M+P2+B+PI3KI
	p-ERK	14.016	< <b>0.001</b>	0.759	<b>0.003</b>	<b>0.007</b>	NA	<b>0.001</b>	<b>0.014</b>	NA	< <b>0.001</b>	NA
	ERK	0.223	0.879	0.948	0.504	0.613	NA	0.546	0.659	NA	0.869	NA
	p-AKT	5.041	<b>0.009</b>	0.269	0.131	NA	<b>0.047</b>	<b>0.013</b>	NA	0.337	NA	<b>0.001</b>
	AKT	0.295	0.829	0.907	0.410	NA	0.613	0.479	NA	0.697	NA	0.747

M: MCAO; B: BMSC.

Figure 6D		ANOVA							
		F	P value (inter-group)	P value (pairwise comparisons, LSD test)					
				versus M+NS			versus M+P2+B		versus M+P2+B+ERKI
				M+P2+B	M+P2+B+ERKI	M+P2+B+PI3KI	M+P2+B+ERKI	M+P2+B+PI3KI	M+P2+B+PI3KI
	Nuclear-Nrf2	114.942	< 0.001	0.001	0.075	0.036	< 0.001	< 0.001	0.715
	HO-1	8.451	0.001	0.001	0.838	0.980	0.001	0.001	0.858

M: MCAO; B: BMSC.