

		Comparison	F (DFn, DFd)	P value	Significant
1	GFAP: Female cohort	Interaction	F (3, 24) = 6.332	P=0.0026	Yes
		Time points	F (3, 24) = 5.605	P=0.0047	Yes
		Ipsi vs Contra	F (1, 24) = 19.99	P=0.0002	Yes
2	GFAP: Male cohort	Interaction	F (3, 24) = 10.15	P=0.0002	Yes
		Time points	F (3, 24) = 11.94	P<0.0001	Yes
		Ipsi vs Contra	F (1, 24) = 28.96	P<0.0001	Yes
3	GFAP: Female vs Male cohort (ipsilateral)	Interaction	F (3, 24) = 0.0868	P=0.9666	No
		Time points	F (3, 24) = 15.63	P<0.0001	Yes
		Sex	F (1, 24) = 0.2255	P=0.6391	No

Supplementary Table 4. Statistical analysis results of percentage area of GFAP staining after focal brain injury. Tabular results of two-way ANOVA of percent area GFAP positive staining comparisons between sexes after focal brain injury. Row 1 shows the two-way ANOVA results of female cohort, row 2 shows the results of male cohort and row 3 shows the result of ipsilateral hemisphere comparison of female and male cohort.