

Supplementary Table 1. Number of significantly differed metabolites in each of the comparisons. Blue indicates the number of metabolites increased, and red indicates the number of metabolites decreased in the condition above the line.

Welch's Two-sample t-test	<i>Aged Naive</i> <i>Young Naive</i>	<i>1 dpi Stroke</i> <i>Aged Naive</i>	<i>1 dpi Stroke</i> <i>1 dpi Contra</i>	<i>1 dpi Stroke</i> <i>1 dpi Sham</i>	<i>1 dpi Contra</i> <i>Aged Naive</i>	<i>1 dpi Sham</i> <i>Aged Naive</i>	<i>1 dpi Contra</i> <i>1 dpi Sham</i>
Total biochemicals p ≤ 0.05	190	202	153	167	50	85	50
Biochemicals ↑↓	77 113	150 52	110 43	111 56	31 19	51 34	28 22
Welch's Two-sample t-test	<i>2 weeks Stroke</i> <i>Aged Naive</i>	<i>2 weeks Stroke</i> <i>2 weeks Contra</i>	<i>2 weeks Stroke</i> <i>2 weeks Sham</i>	<i>2 weeks Contra</i> <i>Aged Naive</i>	<i>2 weeks Sham</i> <i>Aged Naive</i>	<i>2 weeks Contra</i> <i>2 weeks Sham</i>	
Total biochemicals p ≤ 0.05	242	170	124	96	43	61	
Biochemicals ↑↓	206 36	148 22	105 19	64 32	20 23	36 25	
Welch's Two-sample t-test	<i>4 weeks Stroke</i> <i>Aged Naive</i>	<i>4 weeks Stroke</i> <i>4 weeks Contra</i>	<i>4 weeks Stroke</i> <i>4 weeks Sham</i>	<i>4 weeks Contra</i> <i>Aged Naive</i>	<i>4 weeks Sham</i> <i>Aged Naive</i>	<i>4 weeks Contra</i> <i>4 weeks Sham</i>	
Total biochemicals p ≤ 0.05	244	183	201	89	54	53	
Biochemicals ↑↓	191 53	142 41	179 22	63 26	21 33	47 6	
Welch's Two-sample t-test	<i>8 weeks Stroke</i> <i>Aged Naive</i>	<i>8 weeks Stroke</i> <i>8 weeks Contra</i>	<i>8 weeks Stroke</i> <i>8 weeks Sham</i>	<i>8 weeks Contra</i> <i>Aged Naive</i>	<i>8 weeks Sham</i> <i>Aged Naive</i>	<i>8 weeks Contra</i> <i>8 weeks Sham</i>	
Total biochemicals p ≤ 0.05	188	134	148	77	94	70	
Biochemicals ↑↓	112 76	82 52	91 57	38 39	32 62	41 29	
Welch's Two-sample t-test	<i>12 weeks Stroke</i> <i>Aged Naive</i>	<i>12 weeks Stroke</i> <i>12 weeks Contra</i>	<i>12 weeks Stroke</i> <i>12 weeks Sham</i>	<i>12 weeks Contra</i> <i>Aged Naive</i>	<i>12 weeks Sham</i> <i>Aged Naive</i>	<i>12 weeks Contra</i> <i>12 weeks Sham</i>	
Total biochemicals p ≤ 0.05	121	127	51	97	67	53	
Biochemicals ↑↓	76 45	45 82	26 25	75 22	33 34	43 10	