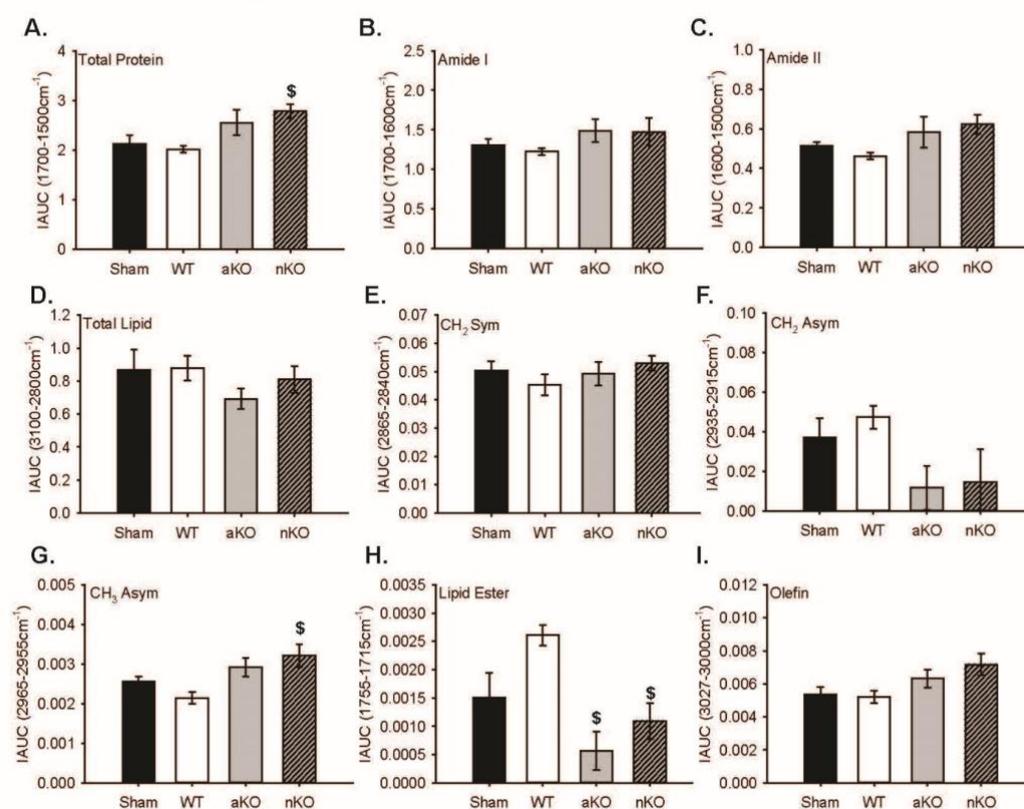


Supplementary Table: Statistical Details					
Figure #	Details	Type of Test	n=	Df(F-value)	p
Figure 1B	NDS 3 hours	One-Way ANOVA	6-7	3 (5.021)	<0.001
Figure 1C	ROI Signal to Background	One-Way ANOVA	16-37	3 (11.366)	<0.001
Figure 2B	IBA1+ cell count	One-Way ANOVA	18-24	3 (9.952)	1.11e-05
Figure 2C	% Area	One-Way ANOVA	18-24	3 (16.11)	2.33e-08
Figure 2D	Average IBA1+ cell size	One-Way ANOVA	18-24	3 (12.12)	1.14e-06
Figure 2E	Branch Length per IBA1+ cell	One-Way ANOVA	18-24	3 (0.209)	0.89
Figure 2F	End points per IBA1+cell	One-Way ANOVA	18-24	3 (5.156)	0.002
Figure 4A	IL Total Protein	One-Way ANOVA	6	3 (3.208)	0.045
Figure 4B	IL Amide I	One-Way ANOVA	6	3 (5.68)	0.005
Figure 4C	IL Amide II	One-Way ANOVA	6	3 (8.997)	0.0005
Figure 4D	IL Total Lipid	One-Way ANOVA	6	3 (14.78)	2.64e-05

Figure 4E	IL v _s (CH ₂)	One-Way ANOVA	6	3 (16.77)	1.1e-05
Figure 4F	ILv _a (CH ₂),	One-Way ANOVA	6	3 (10.33)	0.0002
Figure 4G	IL v _a (CH ₃)	One-Way ANOVA	6	3 (2.444)	0.093
Figure 4H	IL Lipid Ester (C=O)	One-Way ANOVA	6	3 (11.22)	0.0001
Figure 4I	IL Olefin (CH)	One-Way ANOVA	6	3 (21.04)	2.13e-06
Figure 5B	NDS 1 hour	2-Way ANOVA GenxGr	12-20	2 (5.729)	0.005
		Tx	12-20	1 (3.938)	0.050
		Interactions	12-20	2 (1.162)	0.317
Figure 5C	Average NDS Post-Stroke	2-Way ANOVA GenxGr	12-20	2 (2.378)	0.099
		Tx	12-20	1 (7.297)	0.008
		Interactions	12-20	2 (0.777)	0.463
Figure 5D	Discrimination Index Post-Stroke	2-Way ANOVA GenxGr	10-19	2 (0.173)	0.842
		Tx	10-19	1 (0.020)	0.888
		Interactions	10-19	2 (0.765)	0.469
Figure 5E	% Right Paw Usage Post-Stroke	2-Way ANOVA GenxGr	6-18	2 (0.150)	0.861
		Tx	6-18	1 (0.354)	0.554
		Interactions	6-18	2 (1.299)	0.280
Figure 6B	Infarct %	2-Way ANOVA GenxGr	13-20	2 (3.811)	0.026
		Tx	13-20	1 (0.266)	0.607
		Interactions	13-20	2 (0.526)	0.593
Supplemental Figure 1A	CL Total Protein	One-Way ANOVA	6	3 (4.279)	0.017
Supplemental Figure 1B	CL Amide I	One-Way ANOVA	6	3 (1.113)	0.367
Supplemental Figure 1C	CL Amide II	One-Way ANOVA	6	3 (2.246)	0.114
Supplemental Figure 1D	CL Total Lipid	One-Way ANOVA	6	3 (0.923)	0.448
Supplemental Figure 1E	CL v _s (CH ₂)	One-Way ANOVA	6	3 (0.86)	0.478

Supplemental Figure 1F	CL _v (CH ₂),	One-Way ANOVA	6	3 (2.285)	0.11
Supplemental Figure 1G	CL _v (CH ₃)	One-Way ANOVA	6	3 (4.801)	0.011
Supplemental Figure 1H	CL Lipid Ester (C=O)	One-Way ANOVA	6	3 (6.761)	0.002
Supplemental Figure 1I	CL Olefin (CH)	One-Way ANOVA	6	3 (3.169)	0.046

Supplemental Figure 1:



Supplemental Figure: Healthy Hemisphere Biochemical Changes (A-I) Quantitative integrated spectral ranges (IAUC) of total protein, Amide I, Amide II, total lipid, vs(CH₂), va(CH₂), va(CH₃), lipid ester (C=O), and olefin (CH). Two slices per 3 mice were included in the data analysis and statistical comparisons (n=6). All data are expressed as mean \pm SEM and were compared using a one-way ANOVA with Tukey post-hoc. * indicate significant difference (p < 0.05) compared to sham group, and \$ indicate significant difference (p < 0.05) compared to WT group. Abbreviations: nKO neuronal IGF-1R knockout, aKO astrocyte IGF-1R knockout, WT wildtype