



**Additional Figure 1 Effect of CIMT on the colocalization of NR1 with GluR2 in ipsilateral hippocampal CA1 region (double immunofluorescence staining).**

Double-immunolabeled confocal images for NR1 (red, stained by Cy3) and GluR2 (green, stained by Alexa Fluor 488) in CA1 area. Selecting areas other than neuron nuclei (with DAPI staining) were for colocalization analysis. The right image is a scatter plot of the correlation between NR1 and GluR2 distributions. The x-axis is the red fluorescence channel and the y-axis is the green fluorescence channel. The colocalization of NR1 with GluR2 in MCAO group was significantly higher than that in other two groups. Scale bars: 50  $\mu$ m. CIMT: Constraint-induced movement therapy; DAPI: 4',6-diamidino-2-phenylindole; GluR2: glutamate receptor 2; MCAO: middle cerebral artery occlusion; NR1: glutamate receptor N-methyl-D-aspartic acid receptor 1.