Supplementary Information

EGCG modulates nuclear formaldehyde-induced Tau phosphorylation in Neuronal cells

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Supplementary figure legends

Supplementary figure 1. EGCG reduces CDK5 levels. The formaldehyde treated cells showed increased levels of CDK5 as compared to control and EGCG treated cells. EGCG pretreatment and simultaneous treatment with FA showed reduction in the CDK5 levels (red). The post treatment had no effect of FA-induced increased CDK5 levels.

Supplementary figure 2. EGCG enhances nuclear translocation of phospho-Tau AT 8 (pS202/pT205) epitope. The control and FA treated cells showed uniform cytoplasmic localization of AT 8 phospho-Tau (red). The pretreatment of EGCG showed an enhanced nuclear localization of phospho-Tau. The localization of total Tau (green) remains unchanged.

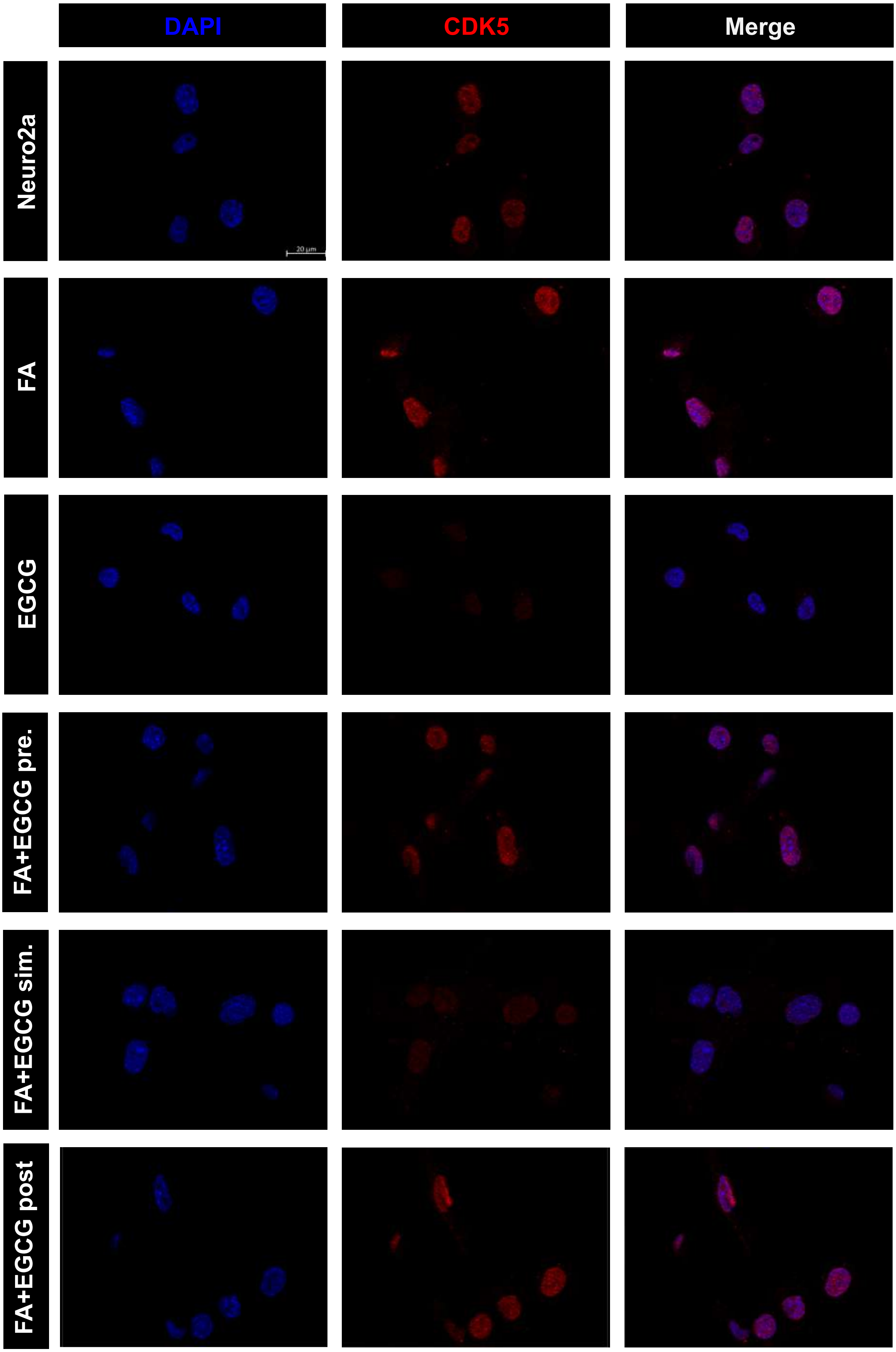
Supplementary figure 3. Orthogonal sections of phospho-Tau AT 8 epitope. The orthogonal sections obtained from Z-stacks show clear nuclear localization of AT 8 Tau as compared to other treatment groups.

Supplementary figure 4. EGCG enhances nuclear translocation of phospho-Tau AT 100 (pS212/pT214) epitope. EGCG pretreatment showed enhanced nuclear localization (around the periphery) of AT 100 phospho-Tau (red) as compared to other groups. The total Tau (green) is localized uniformly throughout the cells.

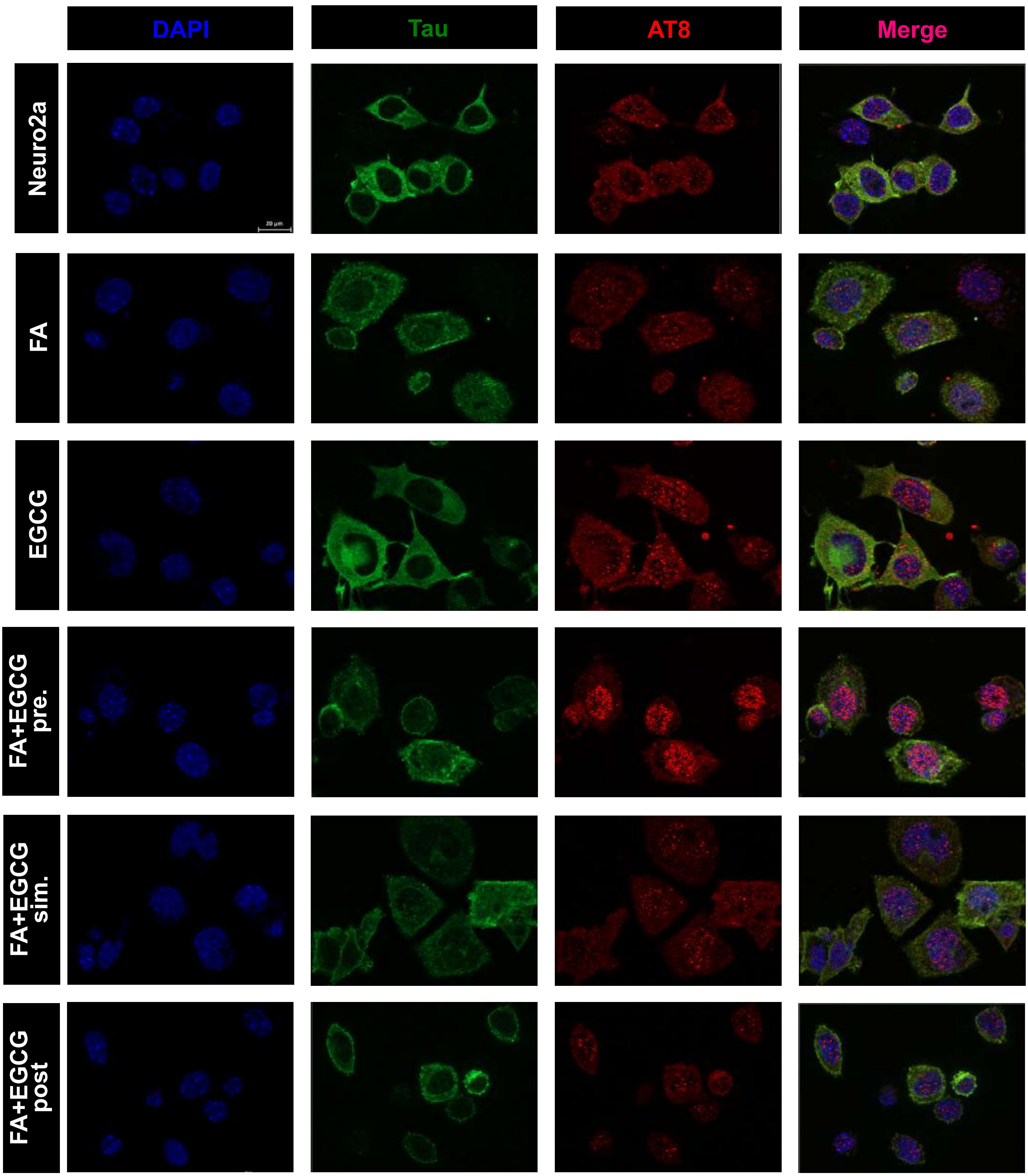
Supplementary figure 5. Orthogonal sections of phospho-Tau AT 100 epitope. The cross-sectional orthogonal analysis showed localization of phospho-Tau AT 100 in the nucleus more in EGCG treated groups.

Supplementary figure 6. DIC images for the treatment groups. The DIC images show no changes in the overall morphology of the treated cells.

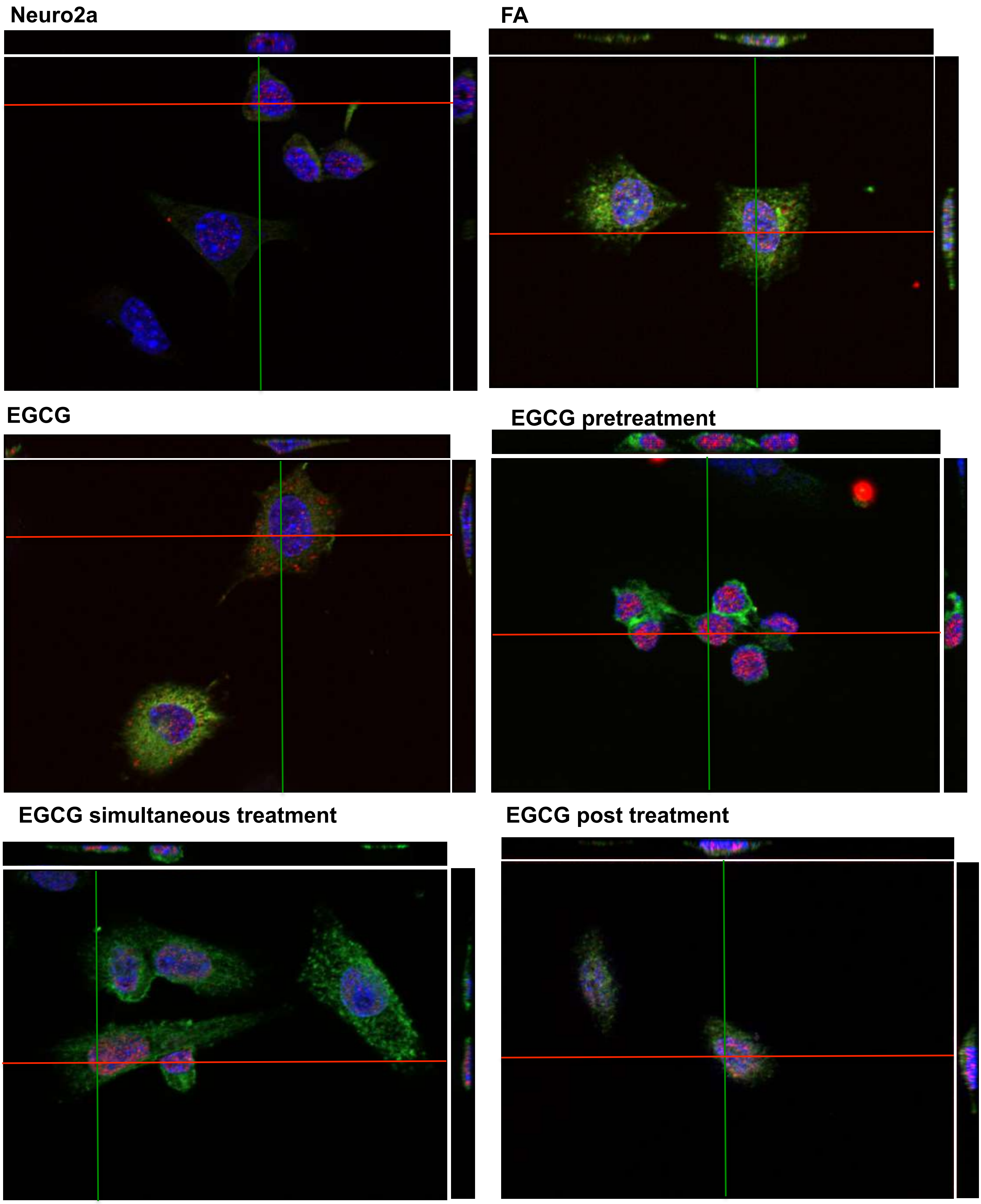
Supplementary Figure. 1



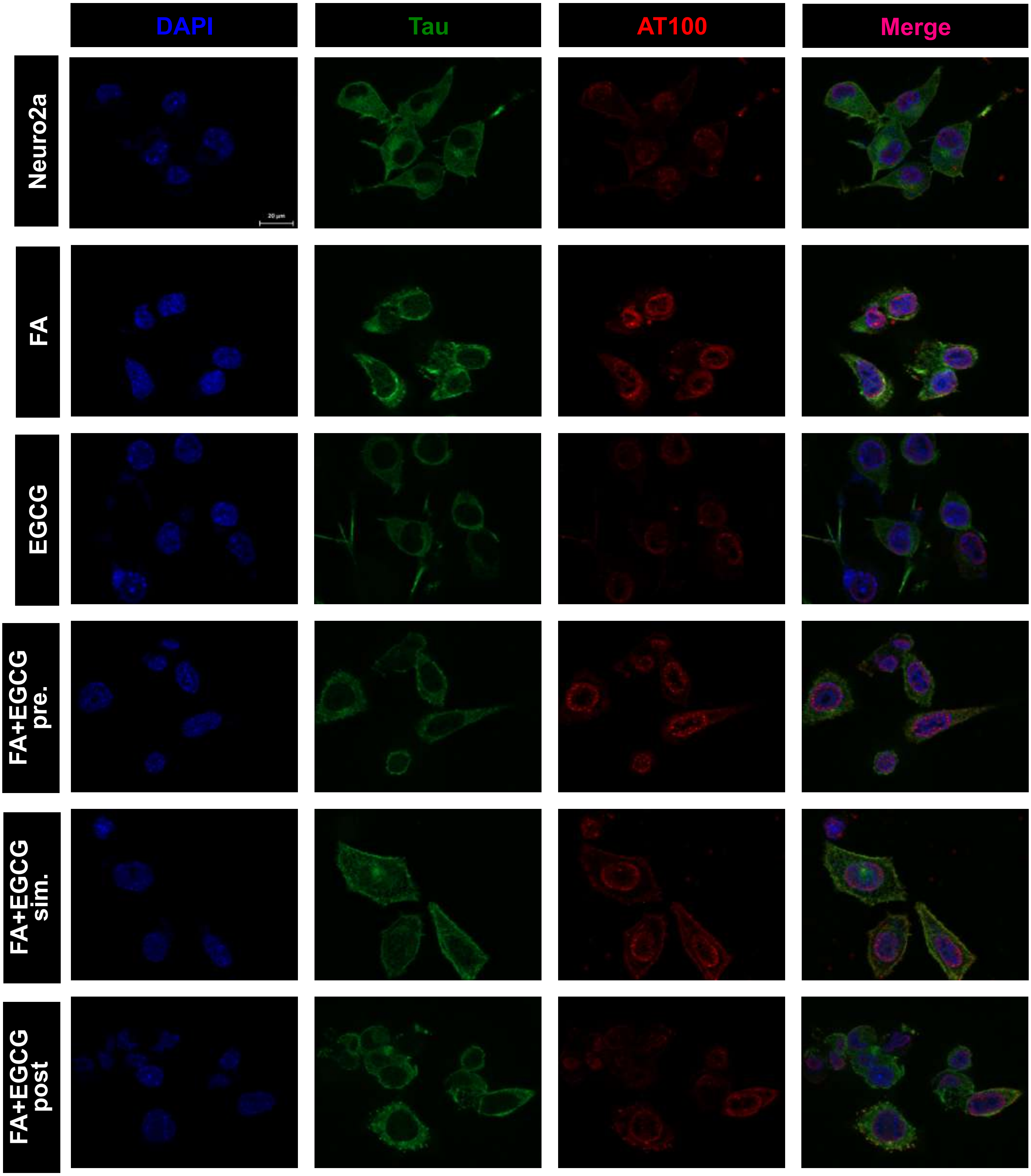
Supplementary Figure. 2



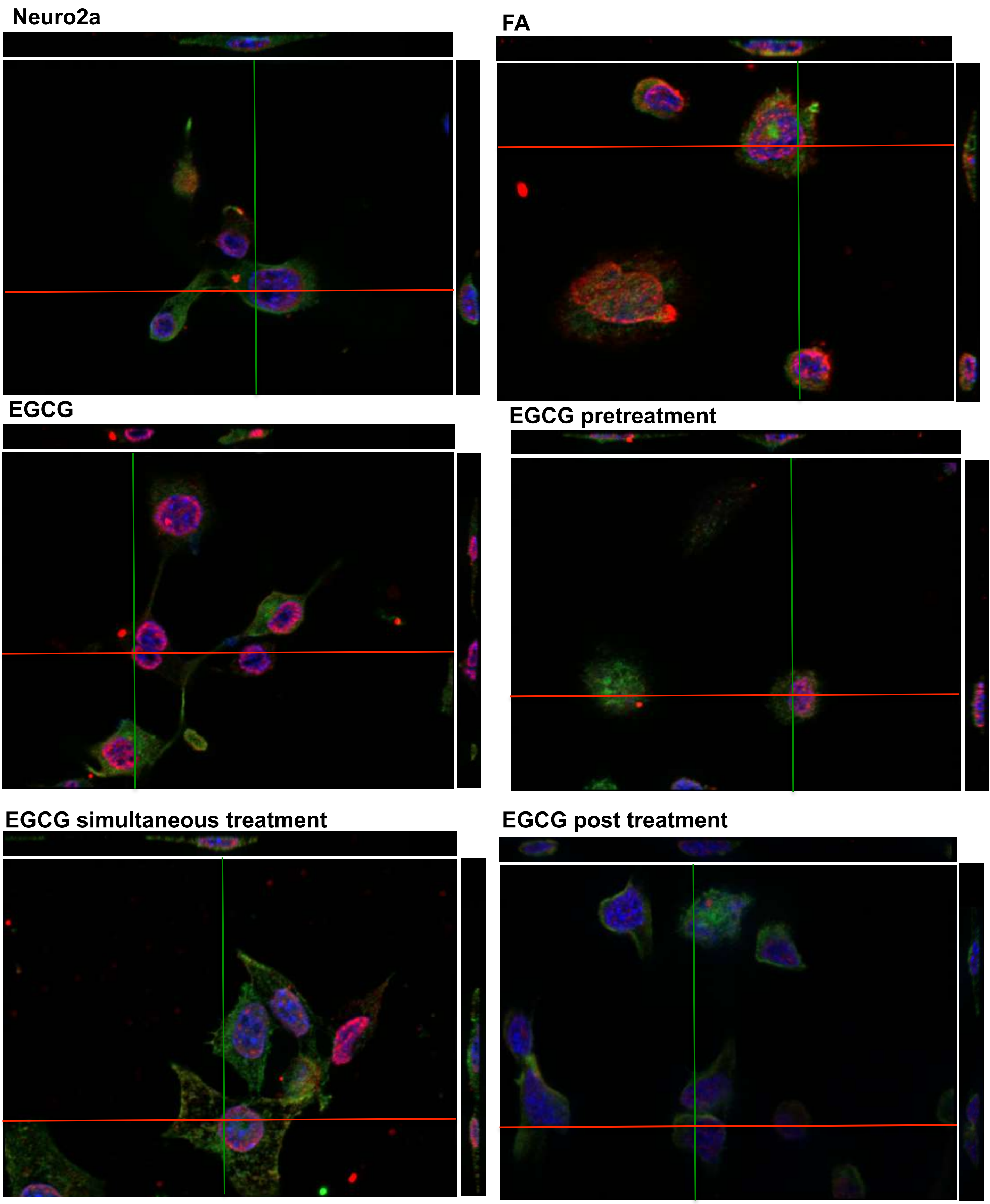
Supplementary Figure. 3



Supplementary Figure. 4



Supplementary Figure. 5



Supplementary Figure. 6