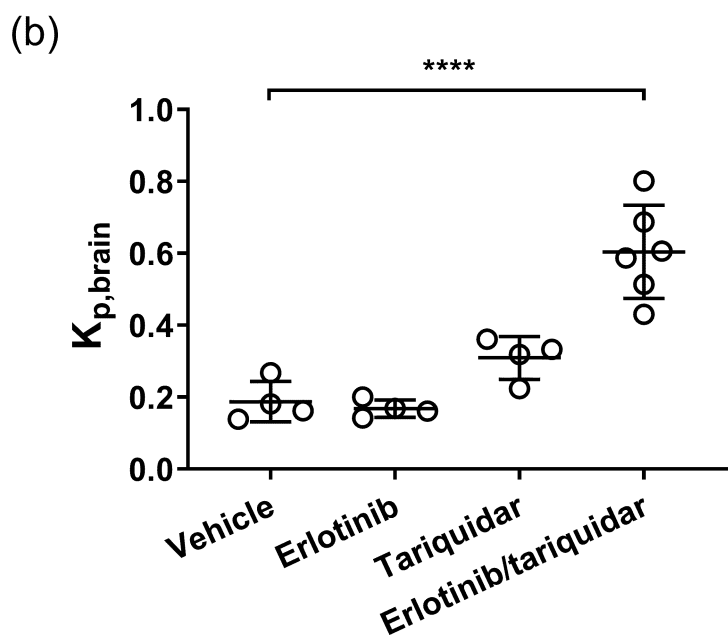
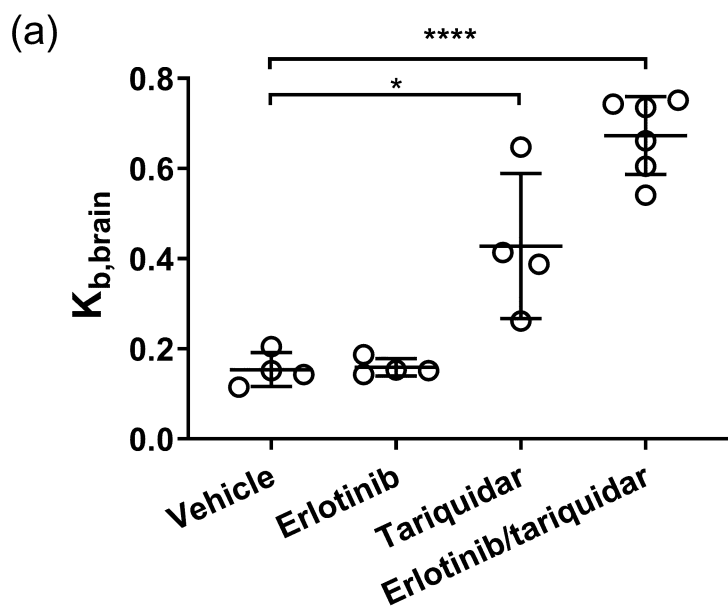
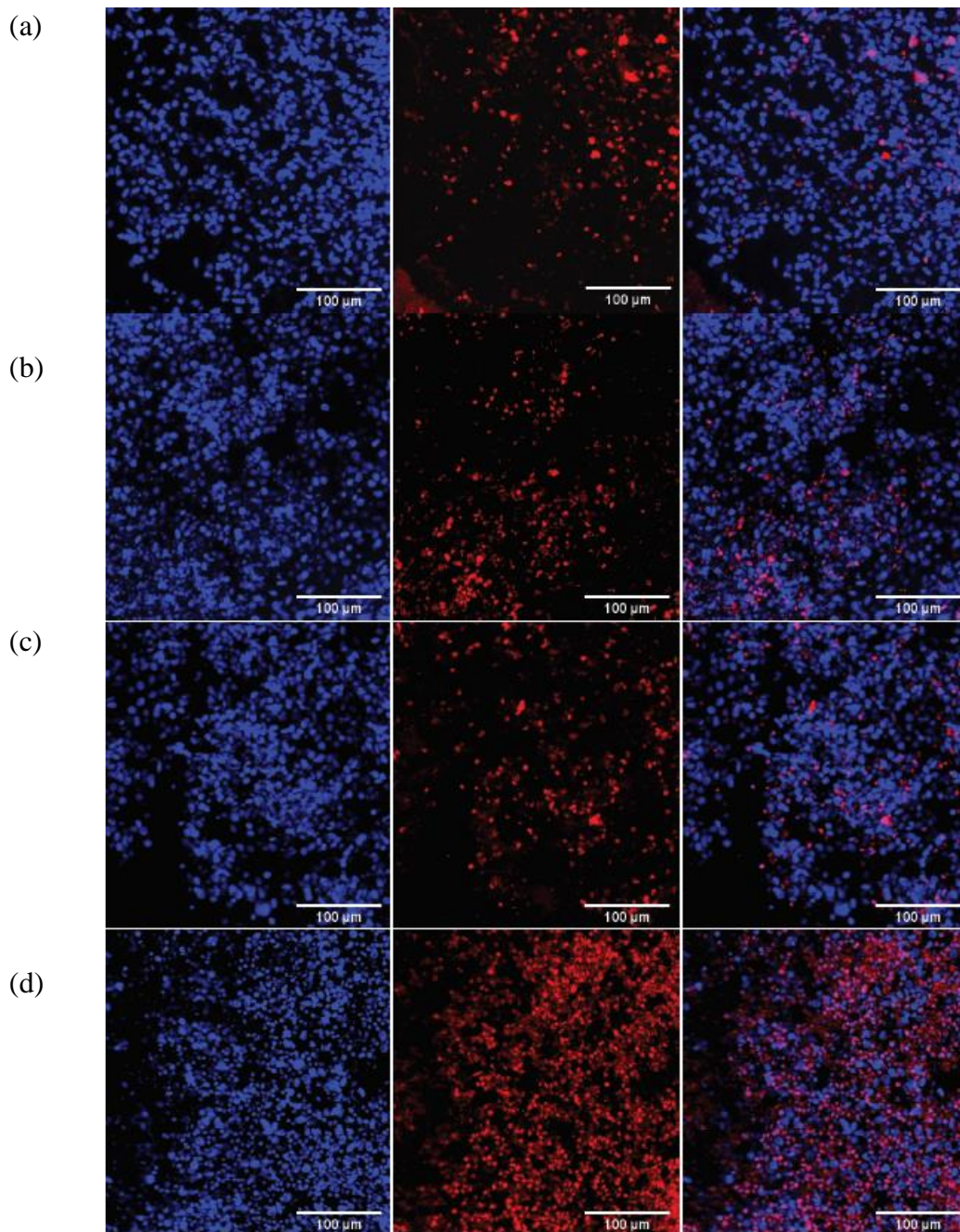


Supplementary Figure 1. $k_{\text{uptake,brain}}$ values for all examined mouse groups. ****, $p < 0.0001$, 1-way ANOVA with Dunnett's multiple comparisons test.



Supplementary Figure 2. $K_{b,brain}$ values (a) and $K_{p,brain}$ values (b) for all examined mouse groups. *, $p < 0.05$; ****, $p < 0.0001$, 1-way ANOVA with Dunnett's multiple comparisons test.



Supplementary Figure 3. Staining of sections prepared from hESC-derived cerebral organoids incubated for 24 hours with medium containing (a) 0.1% DMSO, (b) erlotinib hydrochloride (10 $\mu\text{g}/\text{mL}$), (c) tariquidar dimesylate (5 $\mu\text{g}/\text{mL}$) and (d) a combination of erlotinib hydrochloride (10 $\mu\text{g}/\text{mL}$) and tariquidar dimesylate (5 $\mu\text{g}/\text{mL}$). Left column shows nuclear staining with Hoechst 33342 dye, middle column staining with Caspase-3 antibody and right column colocalization of Hoechst 33342 and Caspase-3 staining (scale bar = 100 μm).