

## **Effect of NIR light on the permeability of the blood-brain barriers in *in vitro* models: supplement**

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# Effect of NIR light on the permeability of the blood-brain barriers *in vitro* models: supplemental document

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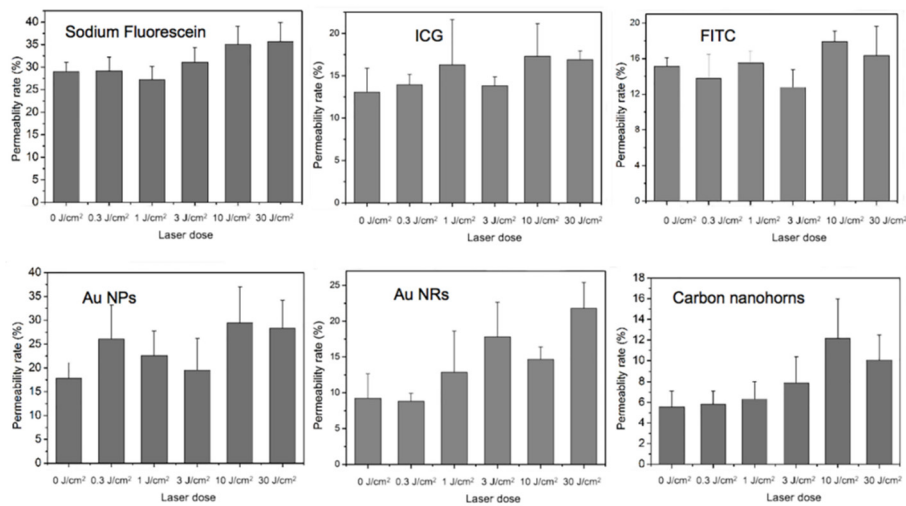


Fig. S1. Permeability of the *in vitro* BBB models for various compounds and nanoparticles after the irradiation.

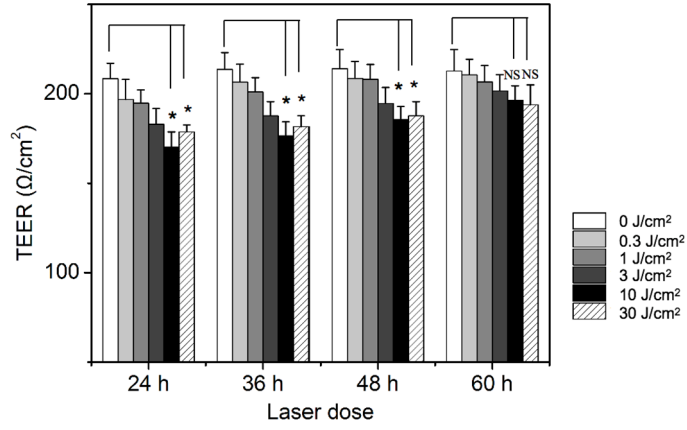


Fig. S2. The TEER of the BBB *in vitro* models after irradiation with various laser doses. NS, not significant; \* $P < 0.05$  versus the untreated group (0  $\text{J}/\text{cm}^2$ ). Error bars indicate means  $\pm$  standard deviation (n=5).

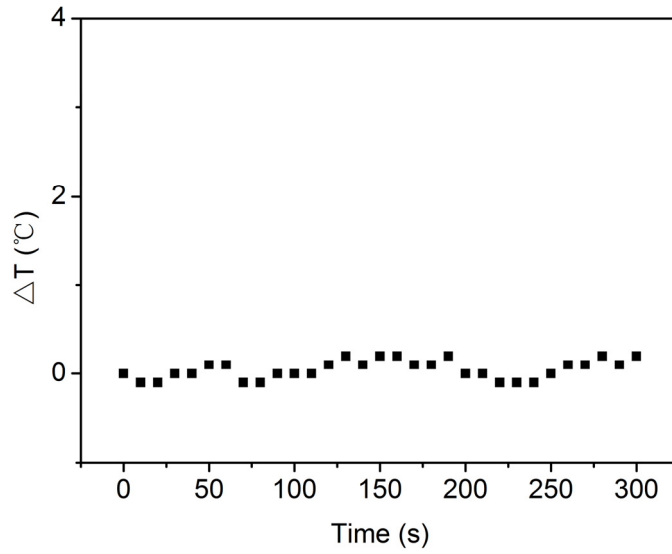


Figure R3. Temperature change in cell medium during the irradiation of a 980 nm laser at a power density of 100  $\text{mW}/\text{cm}^2$ .

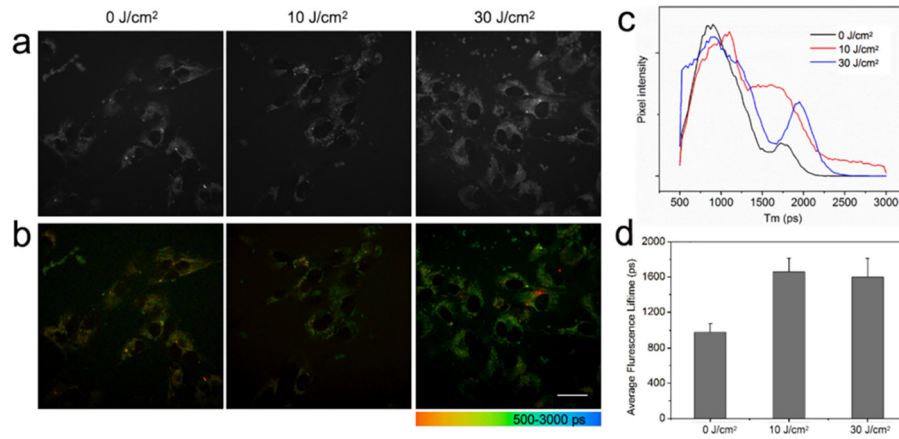


Fig. S4. Mitochondrial activity of brain vessel endothelial cells after PBM treatment analyzed by FLIM. Scale bar=20  $\mu$ m.

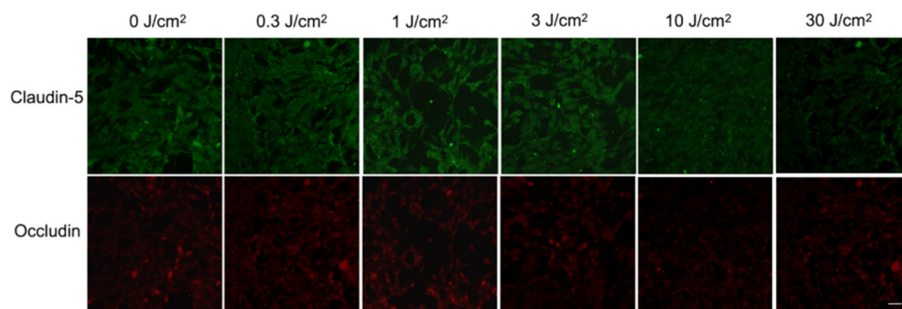


Fig. S5. The expression of tight junction proteins (Claudin-5 and Occludin) on the BBB models after PBM treatment. Scale bar=20  $\mu$ m.