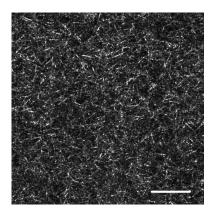
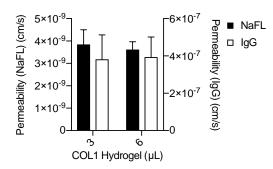
Efflux Pump Substrates Shuttled to Cytosolic or Vesicular Compartments Exhibit Different Permeability in a Quantitative Human Blood–Brain Barrier Model

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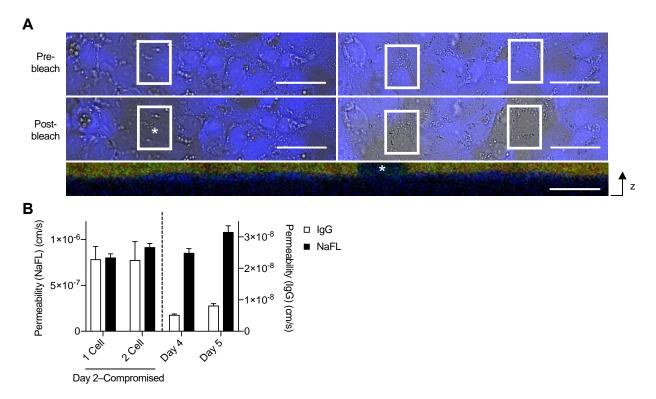
SUPPORTING INFORMATION



SI Figure 1. Representative confocal reflection microscopy image of a 5 mg/mL COL1 hydrogel formed at 37 °C. Scale bar is $20 \,\mu m$.



SI Figure 2. NaFL and IgG permeability of hiPSC-BMECs grown on COL1 hydrogels of 3 or 6 μ L. Statistical significance was determined using a Student's t test. Values are mean \pm SEM of four individual hydrogels from two independent differentiations.



SI Figure 3. Analysis of NaFL and IgG permeability following photobleaching of hiPSC-BMEC monolayers using confocal microscopy. (A) A comparison of hiPSC-BMEC monolayers, positive for live-cell CB blue staining (blue), before (Pre-bleach) and after (Post-bleach) the photobleaching of one (left) or two (right) regions (white boxes). Figures are composite fluorescent and brightfield (greyscale) images. Scale bar is 40 μ m. A vertical profile of Post-bleach cells with one photobleached region is shown in the bottom panel, where NaFL (green) and IgG (red) help identify the rounded, CB-negative compromised cell (indicated with a *). Scale bar is 20 μ m. (B) Permeability values of compromised monolayers and Day 4 and Day 5 uncompromised monolayers. Statistical significance was determined using a Student's t test. Values are mean \pm SEM of four individual hydrogels from two independent differentiations.