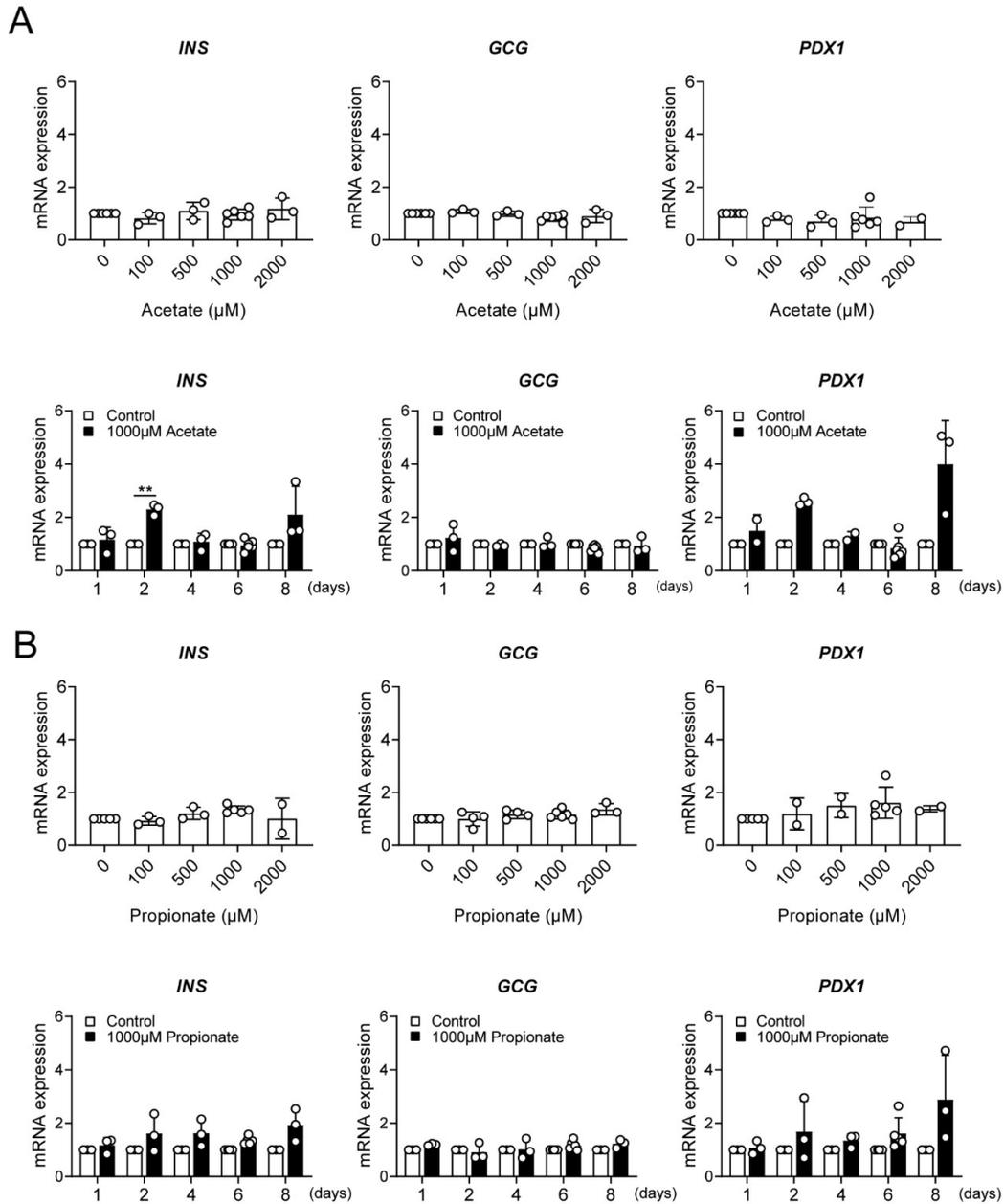


Supplements

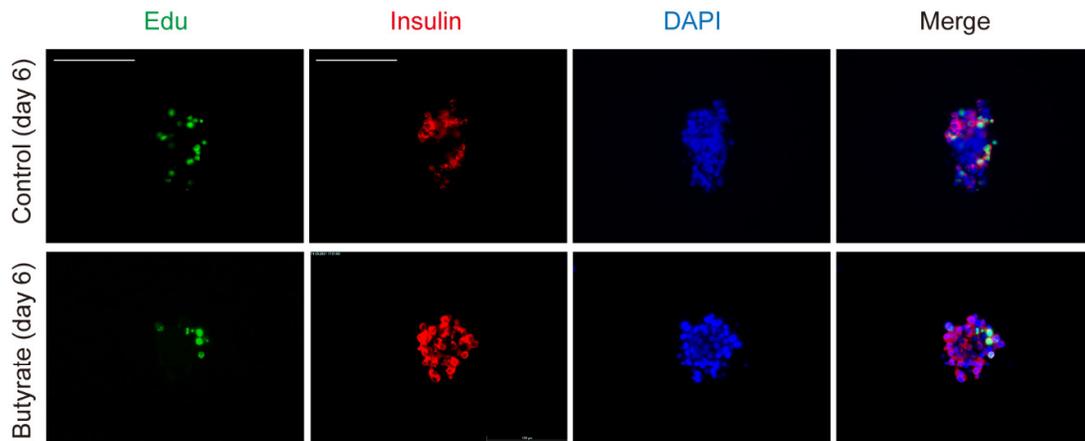
Supplemental Figure 1



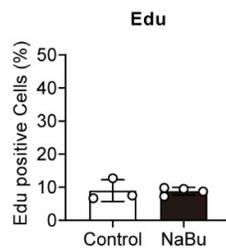
Supplemental Figure S1. Relative gene expression of insulin (*INS*), glucagon (*GCG*) and *PDX1* detected by RT-qPCR in NPICCs after incubation with acetate (10–2000 μM) or propionate (10–2000 μM) for six days and 1000 μM acetate or 1000 μM propionate for one to eight days. (A and B) Time course and dose-dependence of acetate and propionate treatment. Cells without butyrate exposure were used as controls. Data from three to six independent experiments are presented as mean ± SD. ** $p < 0.01$ vs. control groups. .

Supplemental Figure 2

A



B



Supplemental Figure S2. The percentage of proliferating cells is not affected by butyrate treatment. NICCs were cultured in the presence of Edu (10 μ M). Proliferation was measured by Edu staining (green) and co-staining for insulin (red) and nuclei (blue). **(A)** Representative images are shown. **(B)** Percentage of Edu-positive cells in relation to the total cell count. Scale bars = 100 μ m.