Successful Engraftment of Human Pluripotent Stem Cell-derived Progenitors in the Inner Ear of Prenatal Mice

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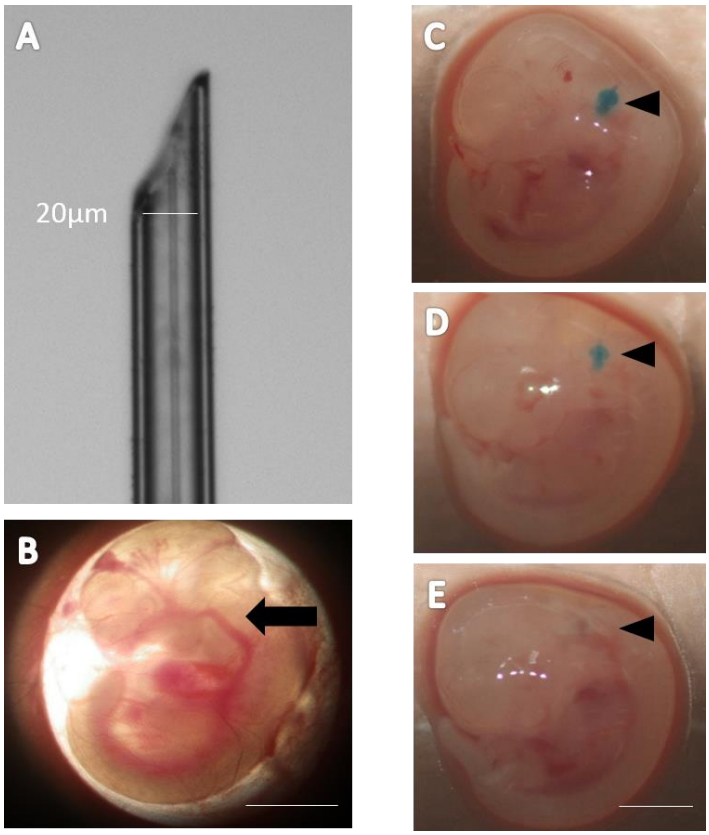
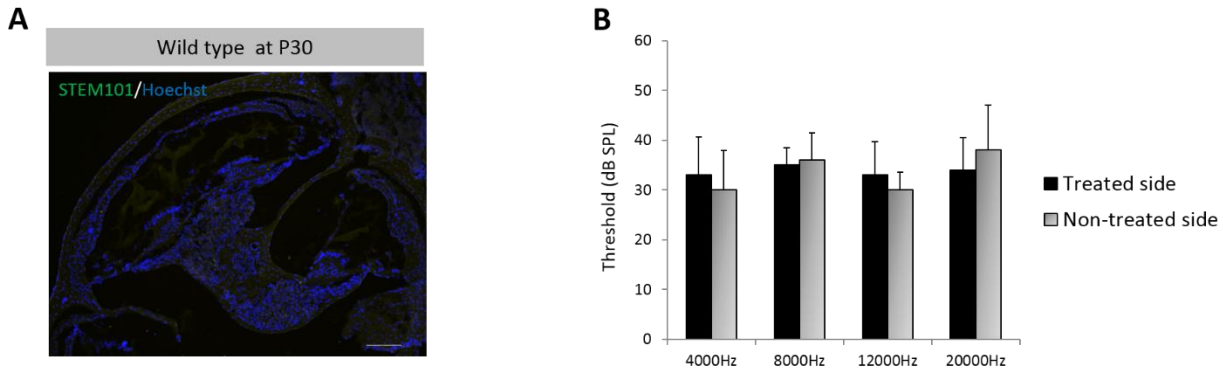
Supplementary figures and figure legends



Supplementary Figure 1.

(A) The image of an ideally shaped glass micropipette for cell transplantation. The diameter of the tip is about 20 μm. **(B)** Picture of a mouse embryo on E11.5 in the visceral yolk sac without the uterus. An arrow indicates the location of the otocyst. The bar indicates 1000 μm. **(C-E)** Picture of a mouse embryo after fast green injection on E11.5 without the uterus, the visceral yolk sac, and the amnion. Arrowheads indicate the otocyst filled with fast green using a 20-μm glass micro pipette (C) and a 30-μm glass micro pipette (D), and the otocyst not filled with fast green using a 40-μm glass micro pipette (E). The bar indicates 1000 μm.



Supplementary Figure 2.

(A) The image shows the section of the treated cochlea on P30 in the WT-treated group. No transplanted cells were detectable. Green: STEM101; Blue: Hoechst. Scale bar indicates 100 μm. **(B)** ABR testing results on P30 after transplantation in the WT-treated group. No significant difference was found between the treated and the non-treated groups at 4, 8, 12, and 20 kHz. Each *n*=5.