Supplemental information

Interleukin-6-controlled, mesenchymal stem cell-based sodium/iodide symporter gene therapy improves survival of glioblastoma-bearing mice

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Figure S1

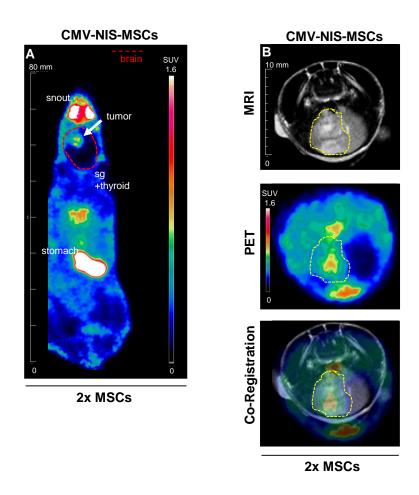


Figure S1: ¹⁸F-TFB uptake of brain tumors is elevated after systemic CMV-NIS-MSCs delivery. (A) Representative images of ¹⁸F-TFB PET imaging (horizontal planes; SUV_{bw} = 1.6) are shown 1 h after tracer injection of GBM-bearing mice (n=3). Brain area is encircled in red dotted lines and tumor is marked with a white arrow. (B) Exemplary images of co-registration of anatomical MRI and PET imaging of the brain showing tumor-selective tracer accumulation. Tumors are encircled in yellow dotted lines.

Figure S2

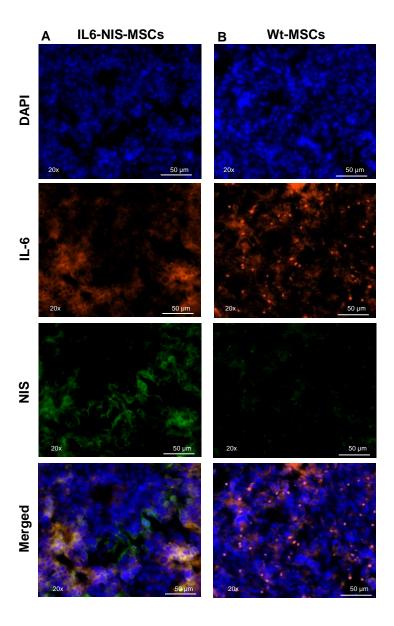


Figure S2: Ex vivo immunofluorescence analysis of GL261 tumors. (A) Representative images of co-localization of IL-6 (red) and NIS (green) protein expression in brain tumors after IL-6-NIS-MSC application. Tumors of Wt-MSC mice (B) showed no NIS protein expression despite IL-6 protein expression.