Supplementary Figure 1.

A) Individual MRI signal development of one mouse during the course of the high fat diet feeding and B) Individual STZ MRI signal changes at 30 min post bolus MnCl₂ injection. (C) MRI Signal development of the liver in C57Bl/6 mice injected with one single dose of 150 mg/kg STZ or control (n=5/group). MRI signals were normalized to the maximal signal of the corresponding ROI, the proton density image during 30 min after MnCl₂ injection at day 14 after STZ treatment. (D) Area-under-the-curve (AUC) integrations are done for the time interval of 0-30 min. * p<0.05 to control. (E) MRI measurement of the cortex of the mouse brain. During a test period of 15 days and three independent experiments, no accumulation of manganese could be observed in the cortex as well as in other brain areas (not shown). Manually drawn ROIs of the same animal are presented with comparable MRI calibrations and Mn²⁺-uptake kinetics.