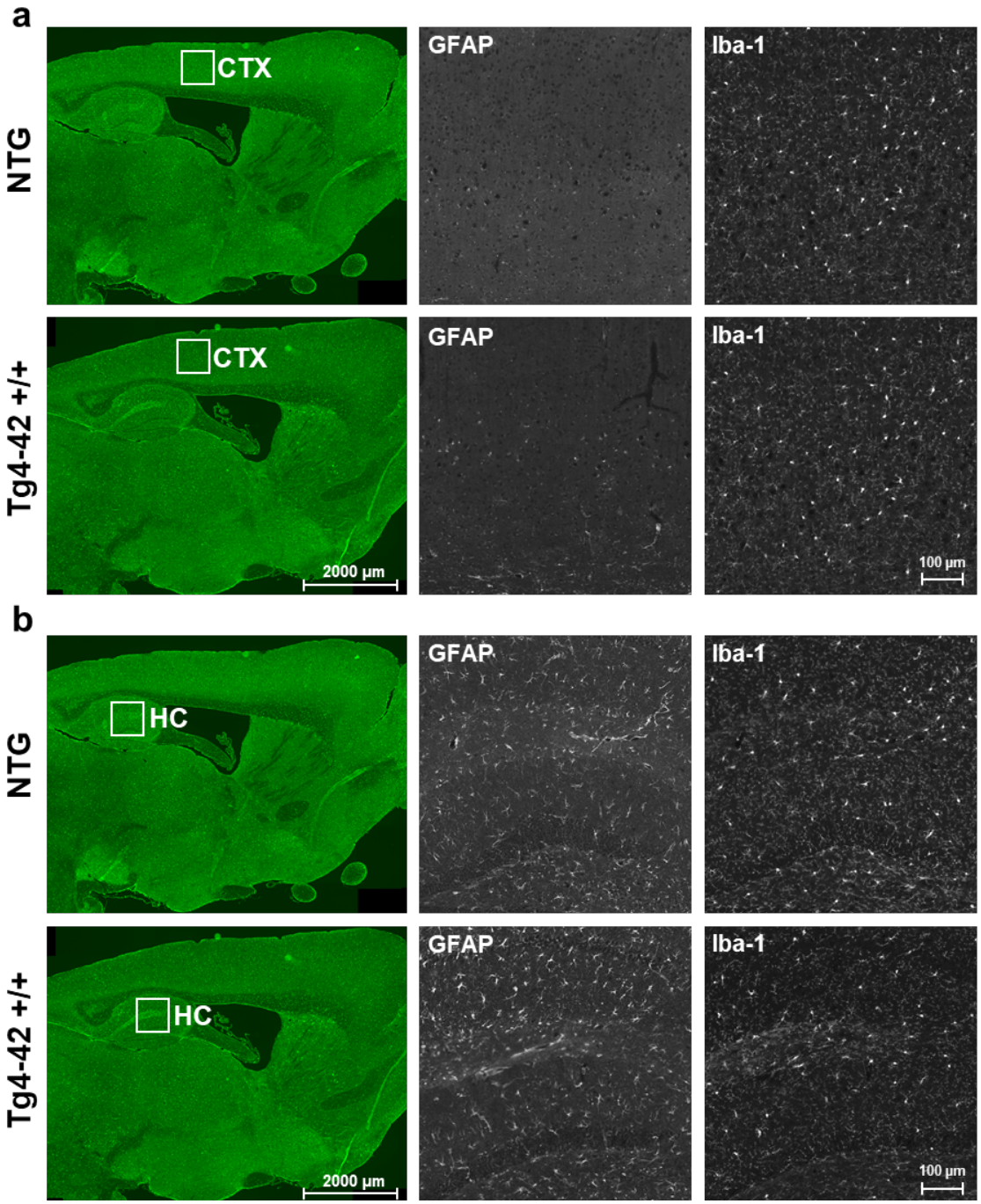
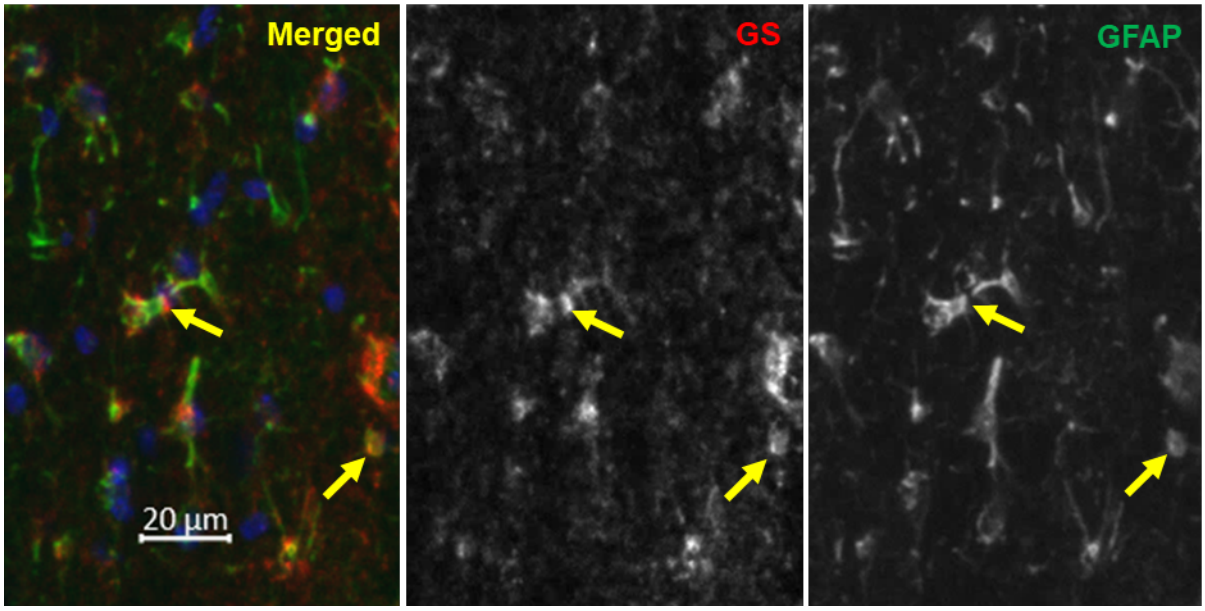
# Supplementary Material

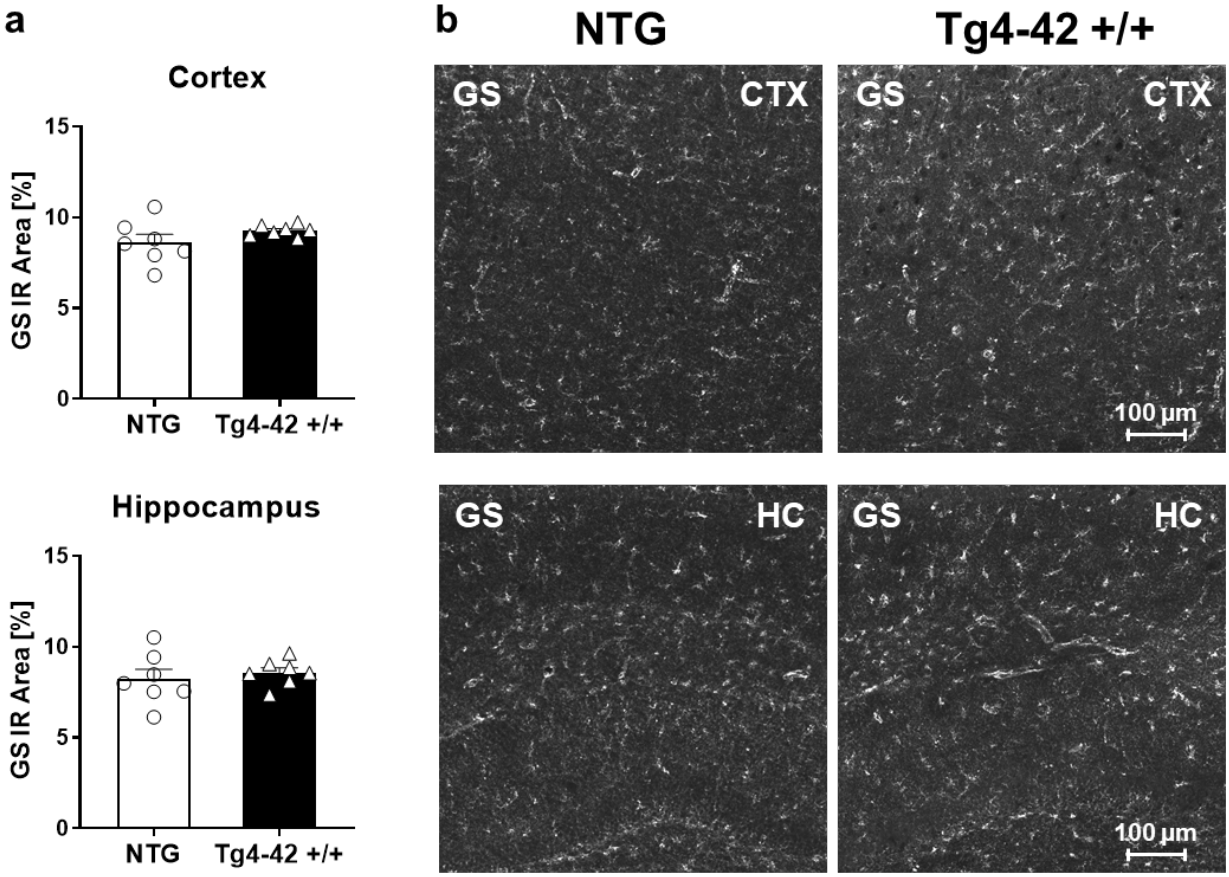
**Metabolic, Phenotypic, and Neuropathological Characterization of the Tg4-42 Mouse Model for Alzheimer's Disease**




**Supplementary Figure 1. Neuroinflammation in 9-month-old Tg4-42 +/+ mice.** a) Representative images of GFAP and Iba-1 labeling of cortex samples in 9-month-old Tg4-42 +/+ and non-transgenic mice (NTG). b) Representative images of GFAP and Iba-1 labeling of hippocampus samples in 9-month-old Tg4-42 +/+ and non-transgenic mice (NTG). Scale bars: 2.000 µm for all overview images. 100 µm for all detailed images.




**Supplementary Figure 2. Expression of glutamine synthetase in astrocytes.** Representative images of glutamine synthetase (GS) and GFAP in the hippocampal CA1 area. Arrows indicate GS expression mainly in astrocytes (co-labeling). Scale bar 20 µm.




**Supplementary Figure 3. Expression of glutamine synthetase in 9-month-old Tg4-42 +/+ mice.** a) Quantification of GS expression in the cortex (CTX) and hippocampus (HC) shown as immunoreactive (IR) area in percent. b) Representative images of NTG and Tg4-42 +/+ brain sections. Scale bar 100 µm for all images. n = 7 per group. Mean + SEM. Unpaired t-test.