

Line 61 Transgenic Mouse Model

This PD transgenic mouse model overexpresses human wild type α -synuclein under the control of the human Thyl promoter.

- High expression of α -syn already in young mice
- Axonal α -syn depositions
- Loss of striatal dopaminergic synapses
- Impaired nest building behavior
- Motor deficits in behavioral read outs

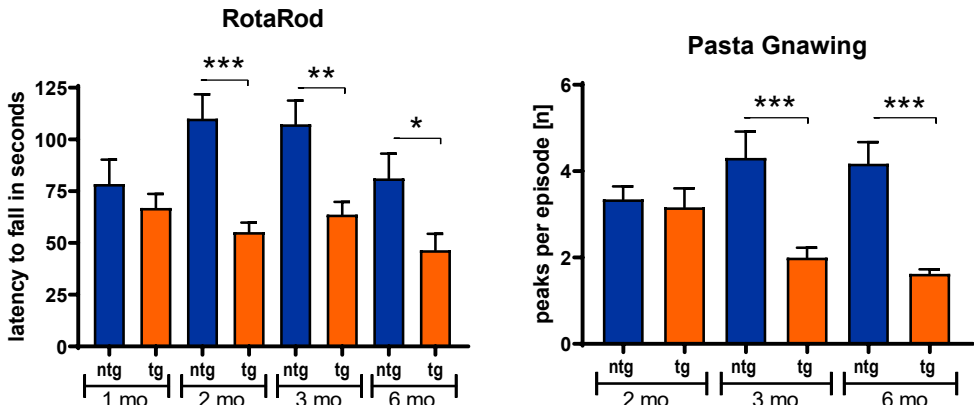


Figure 1. RotaRod and Pasta Gnawing test of 1, 2, 3 and 6 month old Line 61 mice. Mean + SEM; n = 13 - 15; Two-way ANOVA with Bonferroni's *post hoc* test: *p<0.05, **p<0.01, ***p<0.001.

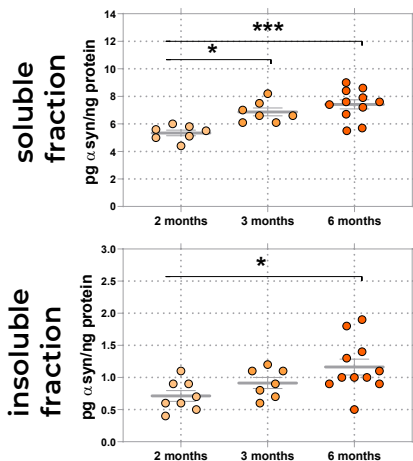


Figure 2. Total hippocampal soluble and insoluble α -synuclein levels of 2, 3 and 6 month old male Line 61 mice. Mean + SEM; n = 8; One-way ANOVA; *p<0.05; ***p<0.001.

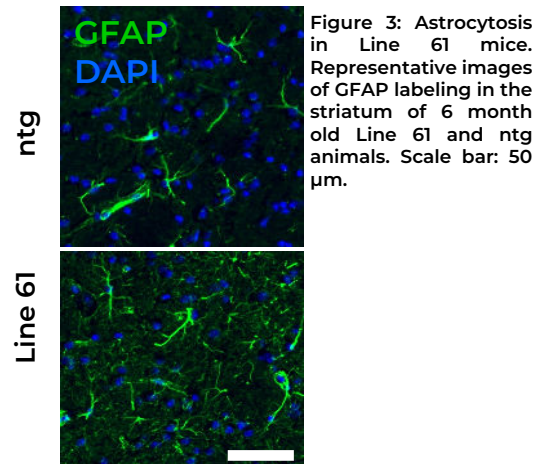


Figure 3: Astrocytosis in Line 61 mice. Representative images of GFAP labeling in the striatum of 6 month old Line 61 and ntg animals. Scale bar: 50 μ m.