

Parkinson's Disease



hA53Ttg Transgenic Mouse Model

hA53Ttg mice express A53T mutant human α-synuclein under the control of the murine Thy-1 promoter (JAX# 008135). This line M53 is bred on a C57BL/6J background.

- · Progressive age-dependent increase of motor deficits
- · Severe early muscle weakness
- · Orofacial motor deficits

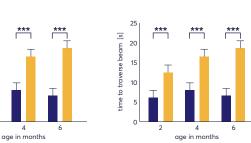
Beam Walk

Wire Hanging

Motor deficits in the beam walk and RotaRod test of hA53Ttg mice compared to non-transgenic littermates. Time to traverse the beam (A) and number of slips **(B)** in the beam walk test as well as time to fall off the rod in the RotaRod test (C). n = 23-24 per group. Two-way ANOVA with Bonferroni's post hoc test; mean + SEM;

Figure 1: **p<0.001.

Figure 1: A time to traverse beam [s] 20 15 10



Beam Walk

Figure 1: B

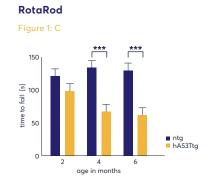
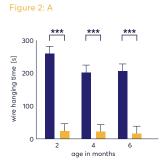
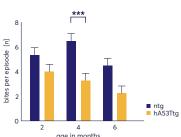


Figure 2: Muscle strength and motor deficits in the wire hanging test and pasta gnawing test of hA53Ttg mice compared to non-transgenic littermates. Wire hanging time observed in the wire hanging test (A) and bites per episode in the pasta gnawing test (B). n = 23-24 per group. Two-way ANOVA with Bonferroni's post hoc test; mean + SEM; **p<0.01; ***p<0.001.



Pasta Gnawing Figure 2: B



Literature: Chandra S, Gallardo G, Fernández-Chacón R, Schlüter OM, Südhof TC. Alpha-synuclein cooperates with CSPalpha in preventing neurodegeneration. Cell. 2005 Nov 4;123(3):383-96.

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Discovery

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