Supplemental Figures

Figure 1. $Hdh^{(CAG)150}$ mice show abnormal gait pattern. Gait was captured by painting the paws of wild type, heterozygous, and homozygous mice with contrasting non-toxic colors prior to walking a paper-lined corridor. Gait pattern was normal in wild type mice, with overlapping fore- and hind-paws, consistent stride length and narrow stride width, at all ages. Homozygotes showed progressive and overt gait abnormalities beginning at 70 weeks. By 100 weeks, homozygotes exhibited fore- and hindpaw stride length compared to wild type littermates (Table 2a). $Hdh^{(CAG)150}$ mutants exhibit progressive decrease in forepaw base beginning at 70 weeks, which becomes significantly worse at 100 weeks (Table 2a; n=9, p < 0.05) compared to wild type. Values presented as mean \pm SEM cm. * Denotes p < 0.5 compared to WT.

Figure 2. $Hdh150^{CAG}$ mice show no motor abnormalities up to 50 weeks of age on the balance beam. $Hdh^{(CAG)150}$ mutant mice show no motor abnormalities up to and including 50 weeks of age, and there were no differences observed between groups in the amount of time to traverse the (a) 11 mm round and the (b) 5 mm square balance beams $(11 \text{ mm F}_{(2,10)} = 0.013; 5 \text{ mm F}_{(2,10)} = 0.179 \text{ effect for genotype, p} > 0.05)$ at 50 weeks.