Table S1 Rotarod analysis of *Npc1*$^{+/+}$ (n_{female} = 11; n_{male} = 7), *Npc1*$^{+/-}$ (n_{female} = 15; n_{male} = 15) and *Npc1*$^{-/-}$ (n_{female} = 9; n_{male} = 5) mice, measured at 5, 7, and 9 weeks of age.

	***Npc1*$^{+/+}$**				***Npc1*$^{+/-}$**				***Npc1*$^{-/-}$**			
	Change in distance travelled (mm, cube root transformed)	**SE**	**95% CI**	***p***	**Change in distance travelled (mm, cube root transformed)**	**SE**	**95% CI**	**p**	**Change in distance travelled (mm, cube root transformed)**	**SE**	**95% CI**	***p***
Week 7 (compared to Week 5)	1.1	0.3	0.7, 1.6	<0.0001	0.3	0.2	-0.1, 0.7	0.1	-1.7	0.3	-2.3, -1.1	<0.0001
Week 9 (compared to Week 5)	0.6	0.2	0.1, 1.1	0.01	0.2	0.2	-0.2, 0.5	0.3	-3.4	0.3	-4.0, -2.8	<0.0001
Male (compared to female)	-0.7	0.5	-1.6, 0.2	0.1	-1.6	0.5	-2.6, -0.7	<0.0001	-1.4	0.4	-2.2, -0.6	0.001

Data was cube root transformed to ensure satisfaction of distributional assumptions. Random effects generalized least squares regression with animals as a random effect, adjusted for age, gender, and training/testing day or age and training/testing day.