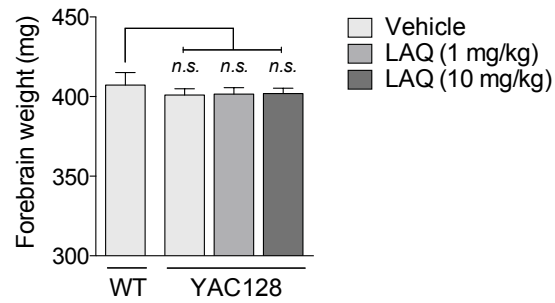


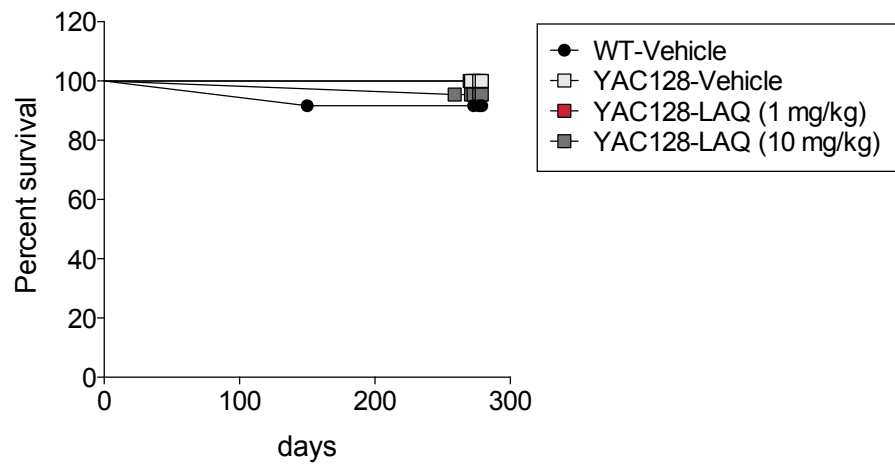
**Laquinimod rescues striatal, cortical and white matter pathology and results in modest behavioural improvements in the YAC128 model of Huntington disease**

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**Supplementary Figure 1. Forebrain weight of vehicle- and laquinimod-treated YAC128 HD mice.**

The forebrain weight of vehicle-treated YAC128 HD mice did not differ from that of vehicle-treated WT mice. Treatment with laquinimod had no effect on forebrain weight in YAC128 HD mice. Values shown as mean. Error bars represent the standard error of the mean; n = 9 WT-vehicle, n = 15 YAC128-vehicle, n = 16 YAC128-laquinimod (1 mg/kg), n = 20 YAC128-laquinimod (10 mg/kg); LAQ – laquinimod.



**Supplementary Figure 2. Survival analysis for vehicle- and laquinimod-treated YAC128 and vehicle-treated WT mice.**

Survival analysis reveals no differences between vehicle-treated YAC128 and WT mice, and no effect of laquinimod treatment on survival in YAC128 HD mice.

**Supplementary Table 1. Accelerating rotarod sample size at each analysis point.**

		Accelerating rotarod sample size											
		2 months			4 months			6 months			8 months		
Genotype	Treatment	F	M	N	F	M	N	F	M	N	F	M	N
WT	Vehicle	6	6	12	6	6	12	5	5	10	5	5	10
YAC128	Vehicle	8	8	16	8	8	16	8	8	16	8	8	16
YAC128	LAQ (1 mg/kg)	11	8	19	11	8	19	11	8	19	11	8	18
YAC128	LAQ (10 mg/kg)	13	9	22	13	9	22	13	9	22	13	8	21

**Supplementary Table 2. Climbing test (time climbing) sample size at each analysis point.**

		Climbing test sample size (time climbing)											
		3 months			4 months			6 months			8 months		
Genotype	Treatment	F	M	N	F	M	N	F	M	N	F	M	N
WT	Vehicle	5	6	11	6	6	12	5	6	11	5	5	10
YAC128	Vehicle	5	8	13	8	6	14	7	7	14	7	8	15
YAC128	LAQ (1 mg/kg)	10	8	18	11	8	19	9	8	17	10	8	18
YAC128	LAQ (10 mg/kg)	12	9	21	13	9	22	9	9	17	12	8	21

**Supplementary Table 3. Climbing test (latency to climb) sample size at each analysis point.**

		Climbing test sample size (latency to climb)											
		3 months			4 months			6 months			8 months		
Genotype	Treatment	F	M	N	F	M	N	F	M	N	F	M	N
WT	Vehicle	5	5	10	6	5	11	6	5	11	5	5	10
YAC128	Vehicle	5	8	13	8	6	14	6	6	12	8	8	16
YAC128	LAQ (1 mg/kg)	11	8	19	11	8	19	11	8	19	11	8	19
YAC128	LAQ (10 mg/kg)	13	9	22	13	9	22	10	9	19	13	9	22

**Supplementary Table 4. Forced swim test sample size at 8 months of age.**

		Forced swim test sample size		
		8 months		
Genotype	Treatment	F	M	N
WT	Vehicle	5	5	10
YAC128	Vehicle	8	7	15
YAC128	LAQ (1 mg/kg)	10	7	17
YAC128	LAQ (10 mg/kg)	11	9	20