

Supplementary Materials

Table S1. Summary table of the statistics (p-value) for TH signaling (related to Figure 1), glial cells (related to Figure 2-3) and Open Field test (Figure 5). Statistical non-parametric two-way ANOVA with permutations tests (strain; treatment; Strain*treatment effects) were performed followed by post-hoc analysis (indicated on each graph). IHC: immunohistochemistry. ns: not significant.

	Parameter	Strain	Treatment	Strain*Treatment
		p-value		
THs level (Figure 1)	T4	ns	0.00019	< 0.00001
TH signaling genes (Figure 2)	<i>Trα1</i>	0.00019	ns	0.001
	<i>Trβ1</i>	ns	ns	0.006
	<i>Dio2</i>	ns	ns	0.001
	<i>Dio3</i>	ns	ns	0.001
	<i>Rc3</i>	ns	0.017	0.014
	<i>Klf9</i>	0.00039	ns	< 0.00001
Reactive astrocytes and activated microglia (western blot analysis; Figure 3-4)	STAT3	0.0075	ns	ns
	P-STAT3	ns	ns	0.006
	Ratio P-STAT3/STAT3	ns	ns	0.003
	CD11B	0.0061	ns	< 0.00001
	IBA1	ns	ns	ns
Glial cells markers (IHC analysis; Figure 3-4)	IBA1	0.0001	ns	0.041
	CD68	ns	0.00019	< 0.00001
	GFAP	0.00019	ns	< 0.00001
Open Field test (Figure 5)	Distance in center	ns	ns	0.035
	Time in center	ns	ns	0.015
	Velocity in center	0.0039	ns	0.025

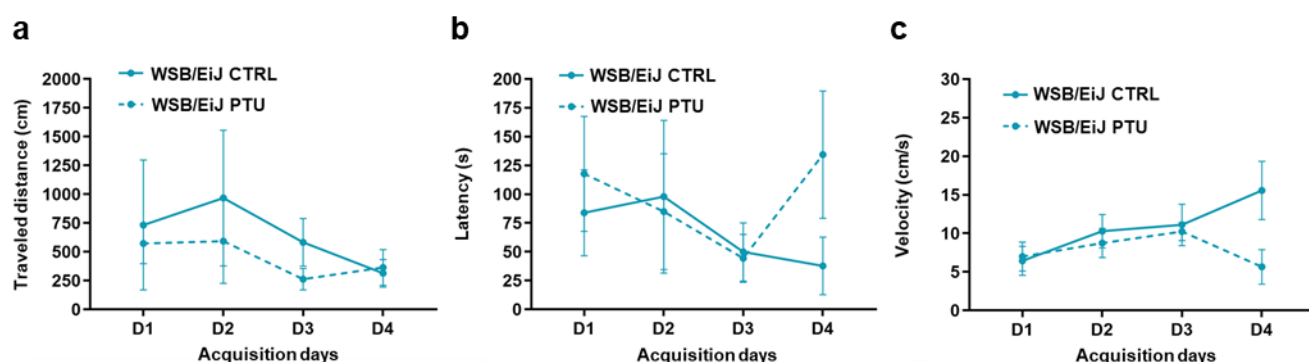


Figure S1. Learning assessment in WSB/EiJ mice after PTU-treatment. Measurement of the traveled distance (a) latency (b) and velocity (c) to escape into the box of the Barnes maze during the four acquisition days, evaluating learning performances of euthyroid (CTRL) and hypothyroid (PTU) WSB/EiJ mice (n = 3-4 per group). No statistical analysis was performed because Barnes maze test was not completed on this strain. The data are expressed as mean \pm SEM.