

Supporting information

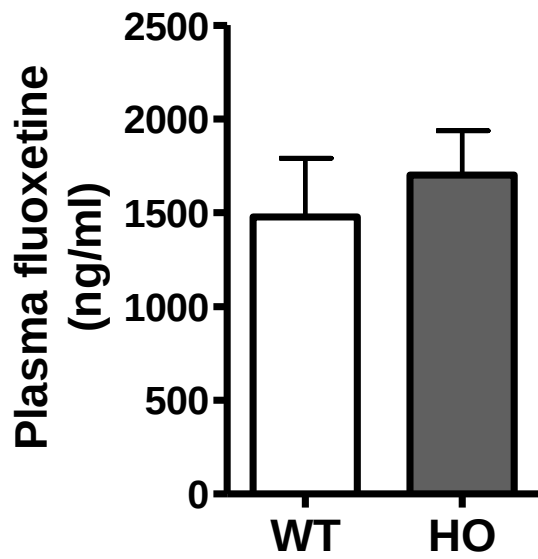


Figure S1. Plasma fluoxetine levels in WT and HO mice treated with 155 mg/L of fluoxetine in the drinking water ($p > .05$ vs WT mice, $n=3-5$, Student t-test).

Table S1. 5-HIAA levels (ng/mg wet tissue) after chronic fluoxetine (in drinking water) treatment

Genotype	Drug	Frontal cortex		Striatum	
		Mean	SEM	Mean	SEM
WT	Vehicle	0.178	0.015	0.364	0.015
	Fluoxetine (77.5 mg/L)	0.105 ^{**}	0.006	0.156 ^{***}	0.015
	Fluoxetine (155 mg/L)	0.076 ^{***}	0.009	0.238	0.018
HO	Vehicle	0.016	0.004	0.006	0.002
	Fluoxetine (77.5 mg/L)	0.016	0.002	0.004	0.001
	Fluoxetine (155 mg/L)	0.006	0.001	0.001	0.001

*, **, ***: p<.05, .01, .001 vs vehicle (One-way ANOVA followed by Bonferroni post-hoc test)

Table S2. 5-HIAA levels (ng/mg wet tissue) after chronic paroxetine (i.p.) treatment

Genotype	Drug	Frontal cortex		Striatum	
		Mean	SEM	Mean	SEM
WT	Vehicle	0.305	0.019	0.944	0.090
	Paroxetine (5 mg/kg)	0.328	0.039	0.611	0.039
	Paroxetine (10 mg/kg)	0.241	0.021	0.598	0.082
HO	Vehicle	0.030	0.007	0.032	0.013
	Paroxetine (5 mg/kg)	0.004 ^{***}	0.002	0.022	0.007
	Paroxetine (10 mg/kg)	0.002 ^{***}	0.001	0.011	0.004

*, **, ***: p<.05, .01, .001 vs vehicle (One-way ANOVA followed by Bonferroni post-hoc test)

Table S3. 5-HIAA levels (ng/mg wet tissue) after acute 5-HTP (i.p.) treatment

Genotype	Drug	Frontal cortex		Striatum	
		Mean	SEM	Mean	SEM
WT	Vehicle	0.301	0.034	0.453	0.044
	5-HTP (10 mg/kg)	0.451	0.049	0.608	0.055
	5-HTP (20 mg/kg)	0.567	0.098	0.916	0.024
	5-HTP (50 mg/kg)	1.597 ^{***}	0.373	2.859 ^{***}	0.308
HO	Vehicle	0.022	0.005	0.054	0.003
	5-HTP (10 mg/kg)	0.070	0.008	0.174	0.018
	5-HTP (20 mg/kg)	0.192	0.027	0.380	0.023
	5-HTP (50 mg/kg)	0.878 ^{***}	0.234	1.765 ^{***}	0.287

*, **, ***: p<.05, .01, .001 vs vehicle (One-way ANOVA followed by Bonferroni post-hoc test)

Table S4. 5-HIAA levels (ng/mg wet tissue) after chronic 5-HTP (i.p.) treatment

Genotype	Drug	Frontal cortex		Striatum	
		Mean	SEM	Mean	SEM
WT	Vehicle	0.152	0.014	0.335	0.033
	5-HTP (10 mg/kg)	0.208	0.032	0.448	0.062
	5-HTP (20 mg/kg)	0.263	0.025	0.514	0.056
HO	Vehicle	0.036	0.018	0.014	0.002
	5-HTP (10 mg/kg)	0.076	0.004	0.019	0.002
	5-HTP (20 mg/kg)	0.061	0.007	0.092 ^{***}	0.007

*, **, ***: p<.05, .01, .001 vs vehicle (One-way ANOVA followed by Bonferroni post-hoc test)

Table S5. 5-HIAA levels (ng/mg wet tissue) after chronic fluoxetine (20 mg/kg, i.p.) and 5-HTP (20 mg/kg, i.p.) treatment

Genotype	Drug	Frontal cortex		Striatum	
		Mean	SEM	Mean	SEM
WT	Vehicle	0.207	0.034	0.335	0.033
	Fluoxetine (20 mg/kg)	0.219	0.026	0.290	0.022
	Fluoxetine + 5-HTP (20 mg/kg)	0.121 ^{*#}	0.019	0.380	0.051
HO	Vehicle	0.023	0.002	0.010	0.001
	Fluoxetine (20 mg/kg)	0.001 ^{***}	0.001	0.005 ^{**}	0.002
	Fluoxetine + 5-HTP (20 mg/kg)	0.095 ^{**####}	0.031	0.069 ^{***####}	0.002

*, **, ***: p<.05, .01, .001 vs vehicle; #, ##, ####: p<.05, .01, .001 vs fluoxetine-treated group (One-way ANOVA followed by Bonferroni post-hoc test)