

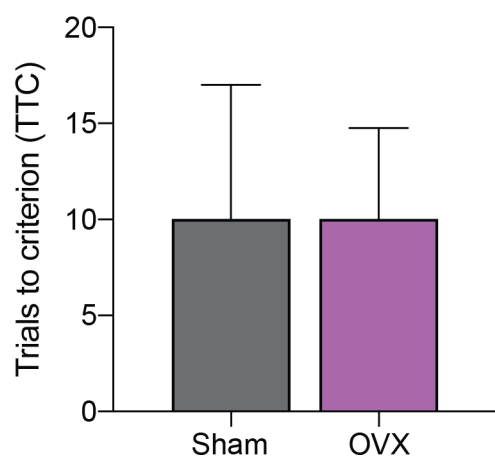
## Supplementary Materials for

### Prepubertal ovariectomy alters dorsomedial striatum indirect pathway neuron excitability and explore/exploit balance in female mice

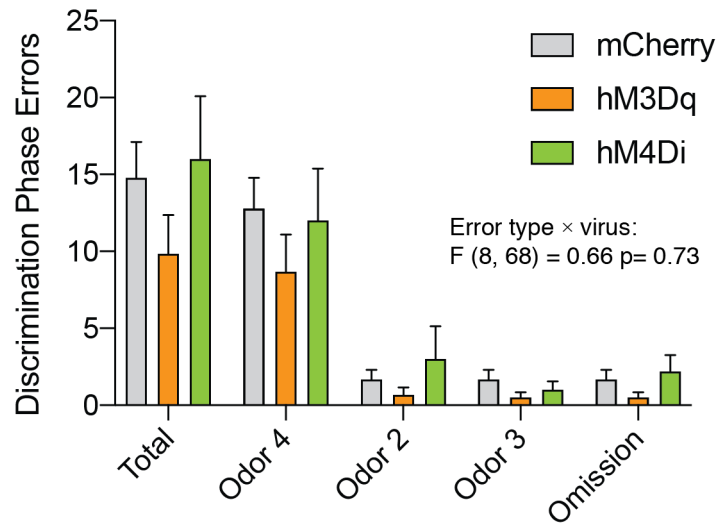
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**Supplementary Figure 1.** OVX and sham females do not differ in TTC during the recall phase of the odor-based multiple choice foraging task.  $p = 0.87$ , Mann-Whitney U test;  $N = 15, 16$ ;



**Supplementary Figure 2.** Error type and virus do not significantly interact during discrimination phase, when all groups receive saline injections.  $p=0.73$ , two-way repeated measures ANOVA;  $N=9,6,5$ .

**Supplementary Table 1. RL model comparison for OVX and sham multiple choice reversal task data**

Model	Learning rate $\alpha$	Softmax $\beta$	Number of parameters per subject	Mean AIC
ab	single	single	2	152.40
aab	per phase	single	3	147.96
abb	per phase	single	3	149.31
<b>aabb</b>	<b>per phase</b>	<b>per phase</b>	<b>4</b>	<b>144.92</b>