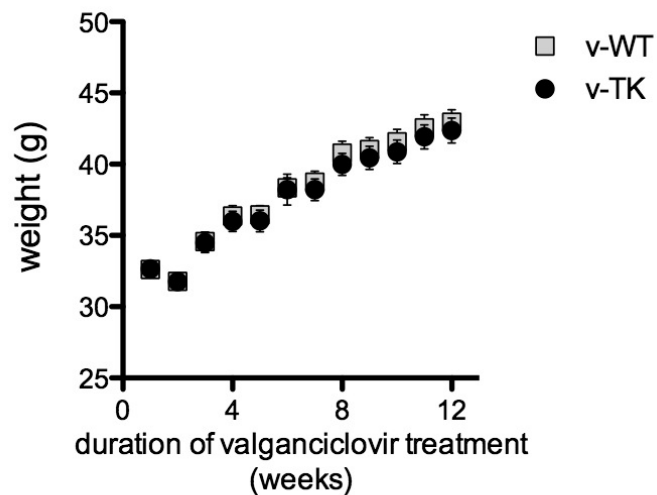
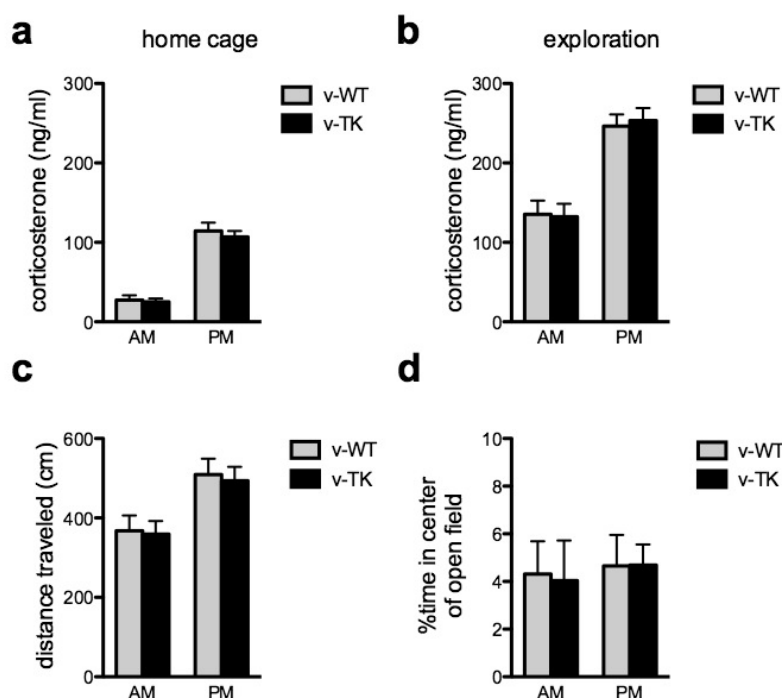


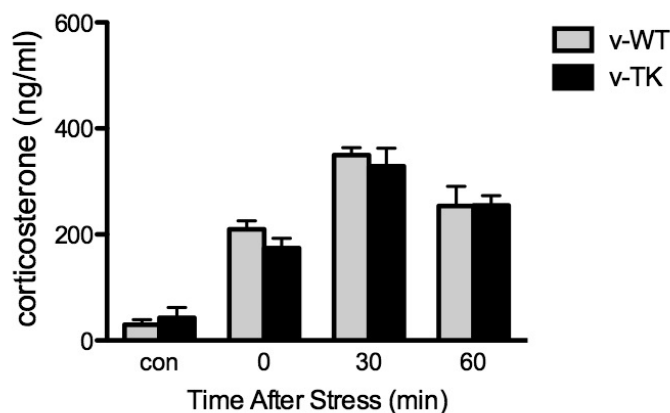
**Supplementary Figure 1:** Confocal photograph of doublecortin immunostaining following 12 weeks of valganciclovir treatment. Extending the 4 week treatment results in Fig. 1, neurogenesis remained suppressed in v-TK mice after longer valganciclovir treatments, as employed in the endocrine and behavior experiments. Scale bar 100  $\mu$ m. Mol, molecular layer; gcl, granule cell layer; hil, hilus.



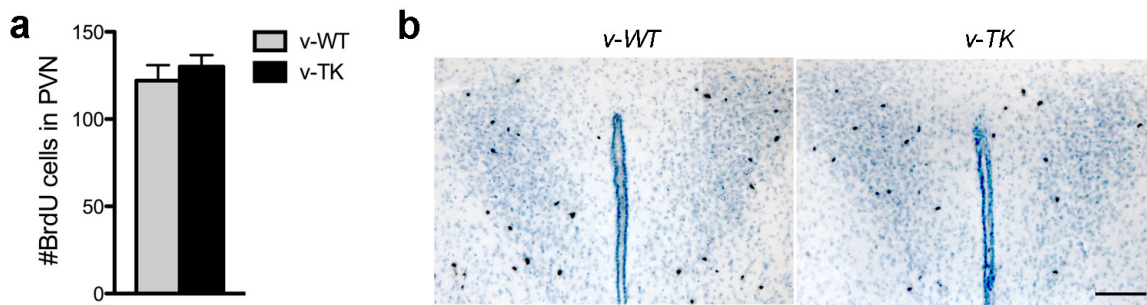
**Supplementary Figure 2:** Body weights were not significantly different in v-WT and v-TK mice (2-way repeated measures ANOVA, genotype effect  $F_{1,759}=0.2$ ,  $P=0.69$ , duration effect  $F_{11,759}=239$ ,  $P<0.0001$ , genotype x duration interaction  $F_{11,759}=0.4$ ,  $P=0.97$ ).



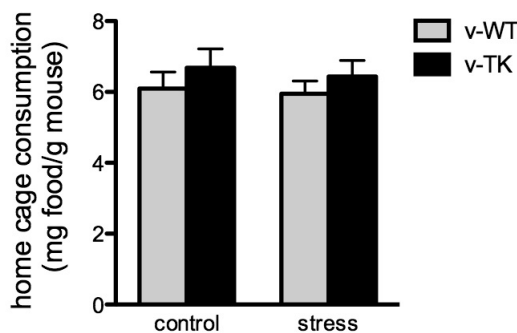
**Supplementary Figure 3:** Circadian fluctuations in corticosterone and baseline exploratory behavior. a) Circadian fluctuation in serum corticosterone in the home cage condition is normal in treated v-TK mice (genotype effect  $F_{1,64}=0.4$ ,  $P=0.52$ ; time of day effect  $F_{1,64}=123$ ,  $P<0.001$ ). b) Corticosterone levels did not differ between v-WT and v-TK mice following exposure to a novel open field, a mild stressor (genotype effect  $F_{1,66}=0.02$ ,  $P=0.90$ ; time of day effect  $F_{1,66}=53$ ,  $P<0.001$ ). c) Total locomotor distance did not differ between v-WT and v-TK mice during exploration of the novel environment (genotype and interaction effects  $F_{1,66}<1$ ,  $P>0.7$ , time of day effect  $F_{1,66}=14$ ,  $P<0.001$ ). d) Time spent in the center of the open field (10 cm x 10 cm) did not differ between v-WT and v-TK mice (genotype and interaction effects both  $F_{1,66}<1$ ,  $P>0.7$ ; time of day effect  $F_{1,66}=4$ ,  $P<0.001$ ).



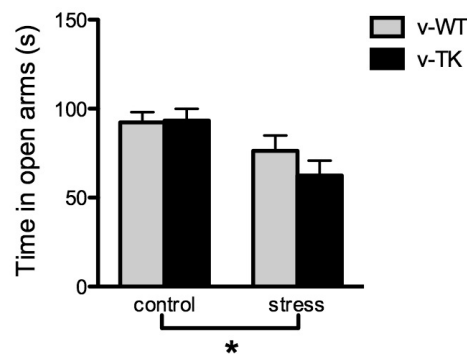
**Supplementary Figure 4:** Corticosterone response to isoflurane anesthesia, a moderate physical stressor, was unchanged in v-TK mice (genotype effect  $F_{1,31}=0.4$ ,  $P=0.55$ ; time effect  $F_{3,31}=49$ ,  $P<0.001$ ; interaction  $F_{3,31}=0.3$ ,  $P=0.8$ ).



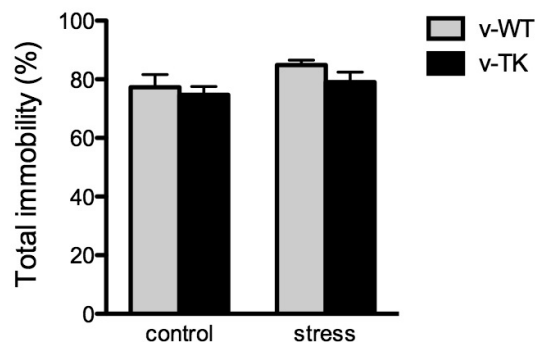
**Supplementary Figure 5:** Cell addition in the hypothalamic paraventricular nucleus (PVN), which drives the HPA response to stress, is not reduced in v-TK mice ( $T_{11} = 0.7$ ,  $P=0.5$ ), suggesting that any neurogenesis that might occur in the adult PVN is not altered in our transgenic model. **b)** BrdU immunostaining (black) in the PVN, as seen with Nissl counterstain (blue). Scale bar 100  $\mu\text{m}$ .



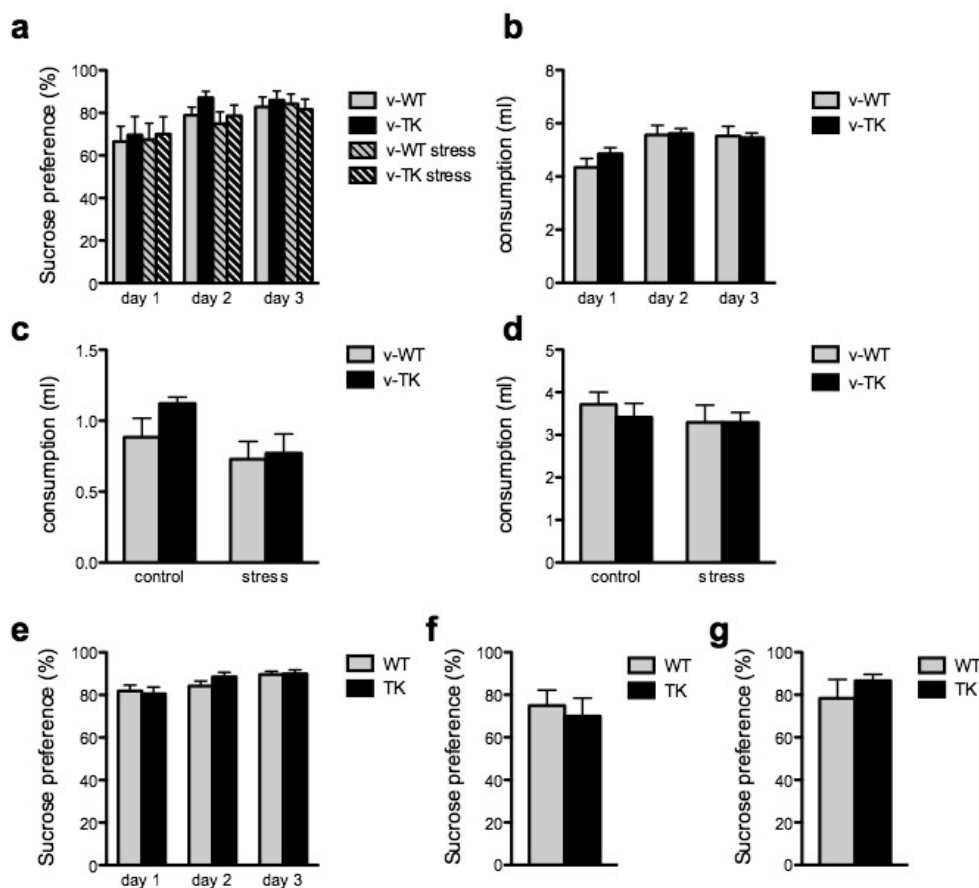
**Supplementary Figure 6:** Home cage food consumption following the NSF test. v-WT and v-TK mice did not consume different amounts of food upon returning to their home cage (genotype effect  $F_{1,82}=1.3$ ,  $P=0.2$ ; stress effect  $F_{1,82}=0.2$ ,  $P=0.7$ ; interaction  $F_{1,82}=0.01$ ,  $P=0.9$ ).



**Supplementary Figure 7:** Anxiety-related behavior in the elevated plus maze. Stress significantly reduced time spent in the open arms of the maze in both genotypes. Stressed v-TK mice spent 18% less time in the open arms than stressed v-WT mice, which was not significantly different (genotype effect  $F_{1,46}=0.7$ ,  $P=0.4$ ; stress effect  $F_{1,46}=9$ ,  $P<0.01$ ; interaction  $F_{1,46}=0.9$ ,  $P=0.3$ ).



**Supplementary Figure 8:** v-WT and v-TK mice did not show differences in total immobility during minutes 2-6 of forced swim testing (genotype effect  $F_{1,88}=1.9$ ,  $P=0.2$ ; stress effect  $F_{1,88}=3.9$ ,  $P=0.05$ ; genotype x stress interaction  $F_{1,88}=0.3$ ,  $P=0.6$ ).



**Supplementary Figure 9:** Sucrose preference habituation and consumption (a-d) and sucrose preference in mice not treated with valganciclovir (e-g). a) Pre-test habituation. Sucrose preference during habituation was not different between v-WT and v-TK mice; both groups showed increased sucrose preference across days of habituation (2 way repeated measures ANOVA, control and to-be-stressed mice pooled; genotype effect  $F_{1,42}<0.1$ ,  $P=0.9$ ; day effect  $F_{2,42}=12$ ,  $P<0.0001$ ; interaction  $F_{2,42}=0.4$ ,  $P=0.7$ ; day 3 vs. day 1 post hoc  $P<0.05$  for both v-WT and v-TK). b) Total consumption (sucrose + water) was not different in v-WT and v-TK mice (2 way repeated measures ANOVA, control and to-be-stressed mice pooled; genotype effect  $F_{1,42}=0.2$ ,  $P=0.6$ ; day effect  $F_{2,42}=16$ ,  $P<0.0001$ ; interaction  $F_{2,42}=1.2$ ,  $P=0.3$ ). c)

Total consumption during the 10 min test was not significantly different between groups but there was a trend for stress to reduce overall consumption (genotype effect  $F_{1,20}=1.1$ ,  $P=0.3$ ; stress effect  $F_{1,20}=3.5$ ,  $P=0.08$ ; interaction  $F_{1,20}=0.5$ ,  $P=0.5$ ). d) There were no neurogenesis- or stress-related differences in total consumption on the night following the 10 min test (genotype effect  $F_{1,20}=0.2$ ,  $P=0.7$ ; stress effect  $F_{1,20}=0.6$ ,  $P=0.4$ ; interaction  $F_{1,20}=0.2$ ,  $P=0.7$ ). e) Pre-test habituation in WT and TK mice (not treated with valganciclovir) revealed no genotype differences in sucrose preference (genotype effect  $F_{1,20}=0.2$ ,  $P=0.3$ ; effect of day  $F_{2,20}=11.5$ ,  $P=0.0005$ ; interaction  $F_{2,20}=1.3$ ,  $P=0.3$ ). f) There was no difference in sucrose preference in untreated WT and TK mice during the 10 min test ( $T_{10}=0.4$ ,  $P=0.7$ ). g) There was no overnight difference in sucrose preference in untreated WT and TK mice during the dark cycle immediately following 10 min test ( $T_{10}=0.9$ ,  $P=0.4$ ).