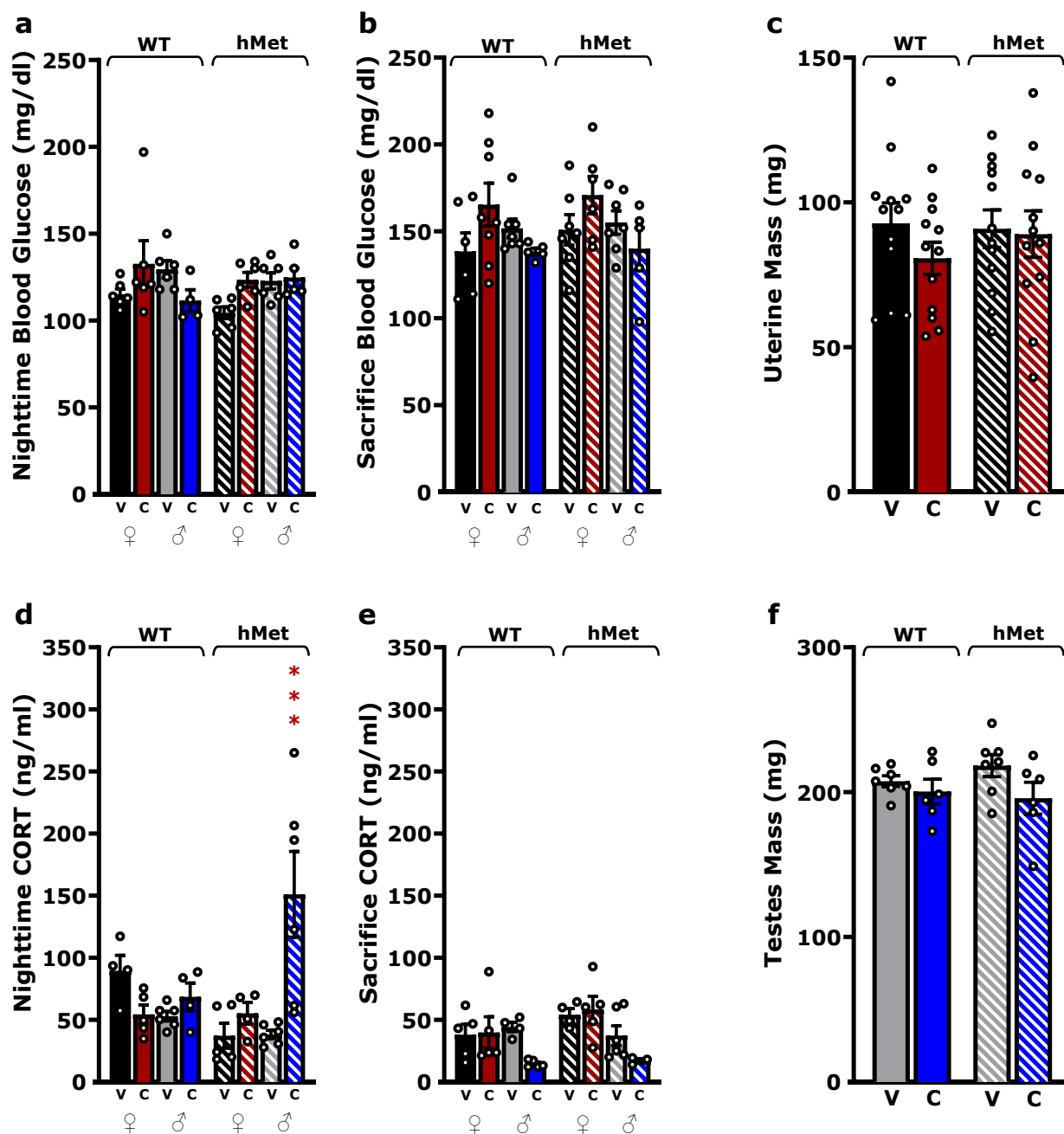
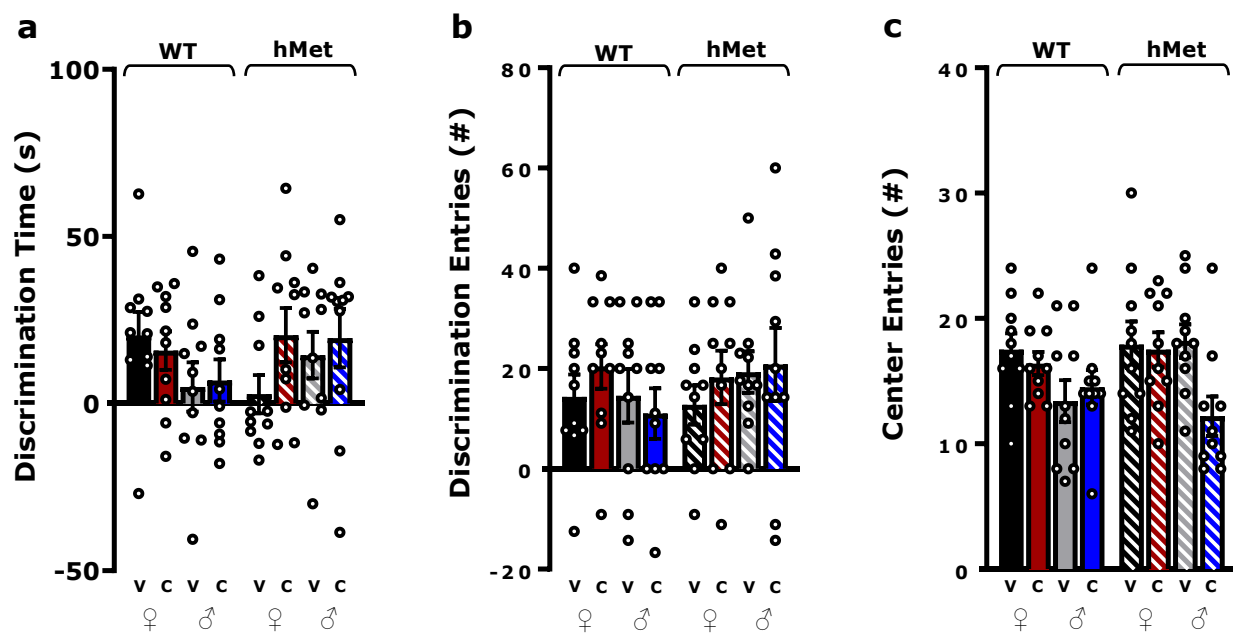


Primer Sequences.

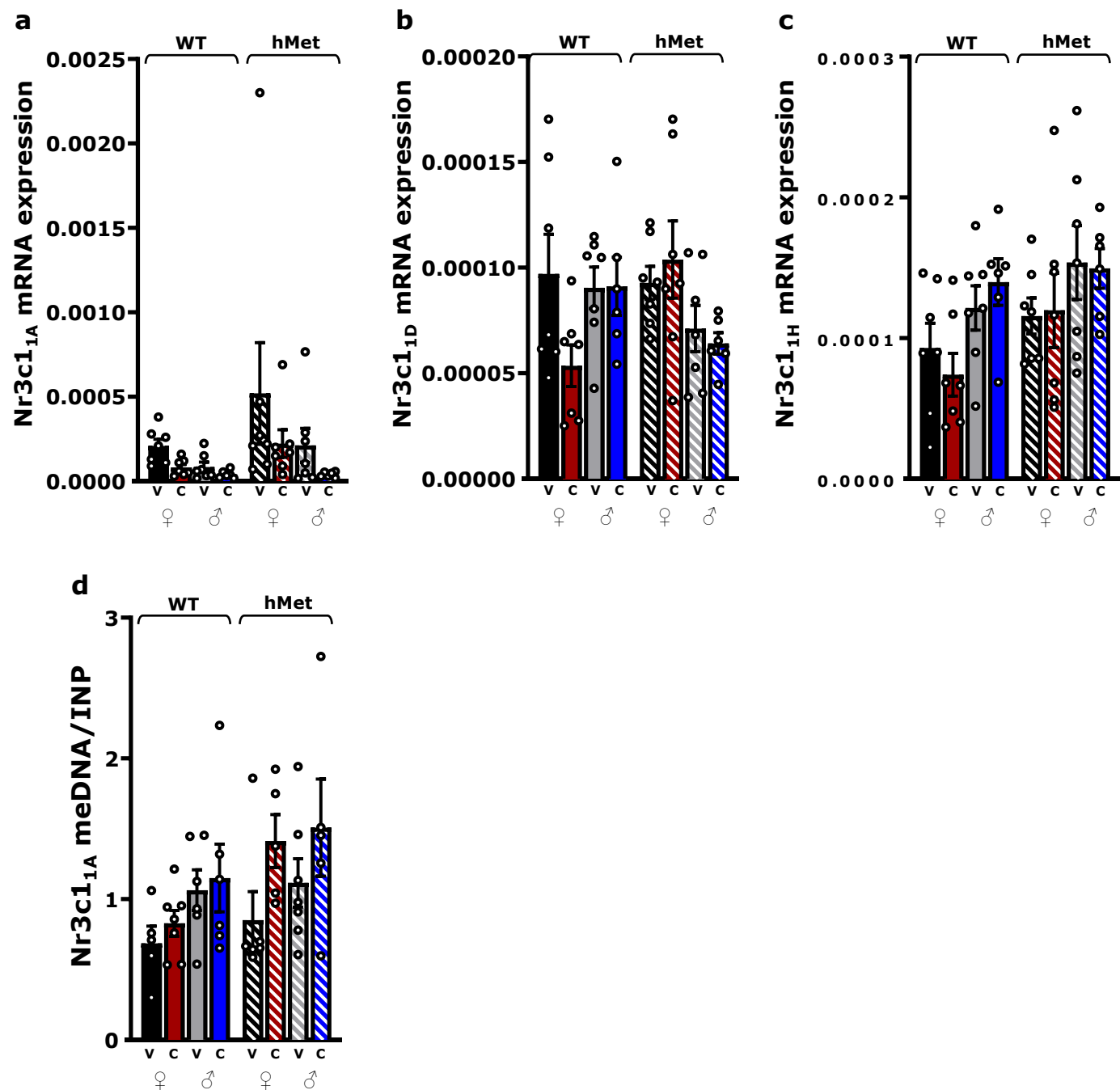
Gene Symbol	Forward	Reverse
<i>Gapdh</i>	5'-AACAGCAACTCCCCTCTTC	5'-CCTGTTGCTGTAGCCGTATT
<i>Nr3c1 mRNA</i>		
Total	5'- CAAGGGTCTGGAGAGGACAAC	5'-TGCTGTGGAGGAGCTGGA
1_A	5'-ACTCTGCGTAAGAATGGAGAAG	5'-GAAACATCTTCCTGGCTGAGA
1_C	5'-GCGACTGTTGACTTCCTTCT	5'-CCACCGCAGCCAGATAAA
1_D	5'-CTCCGATCAGAAGTGCCAAG	5'-GGGAGTAAGGTGTTATGGTGTT
1_F	5'-CCAGGGAGAAGAGAACTAAAGAACT	5'-CGCGGCTTCTTGGCCTTT
1_H	5'-TCAGGAATTGCGGCCTTAC	5'-TGCTCCCTTAAGCGACATTTAT
<i>Nr3c1 Methylated DNA Immunoprecipitation</i>		
1_A -32580 - 32478 bp	5'-GGGTGGGTCAGAAAGACTAAGA	5'-AGGGATCAGCAGAGCAGATAA
1_C -2424 -2333 bp	5'-CTTGTCAGCCGGGAACG	5'- CACGGAGAAGGAAGTCAACAG
1_F -3267 -3186 bp	5'-GTGTCTGCCGTCCTGTG	5'-AGTTGCGCGAAGTGTGT



Supplementary Fig. 1



Supplementary Fig. 2



Supplementary Fig. 3

SUPPLEMENTARY LEGENDS

Supplementary Figure 1. Metabolic Signatures at Nighttime and Sacrifice Measures of blood glucose concentration were obtained a) during the night phase and b) at the point of sacrifice (3-way ANOVA, nighttime glucose: treatment x sex: $F(1,37) = 7.871$, $p < 0.01$; sacrifice glucose: treatment x sex: $F(1,43) = 7.677$, $p < 0.01$). Measures of blood CORT concentration were obtained d) during the night phase and e) at the point of sacrifice. During the night phase, male hMet mice had significantly increased CORT levels after treatment (3-way ANOVA, nighttime CORT: treatment: $F(1,32) = 5.470$, $p < 0.05$, sex x genotype: $F(1,32) = 6.290$, $p < 0.05$, treatment x sex: $F(1,32) = 9.333$, $p < 0.01$, treatment x genotype: $F(1,32) = 10.01$, $p < 0.05$; sacrifice CORT: sex: $F(1,29) = 10.24$, $p < 0.01$, treatment x sex: $F(1,29) = 5.369$, $p < 0.05$). Measurement of c) uterine mass and f) testes mass at time of sacrifice. Columns represent the mean $\pm$ S.E.M. of 3-12 determinations per group. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$, **** $p < 0.0001$. WT: wildtype, hMet: heterozygous for brain-derived neurotrophic factor Val66Met, V: vehicle, C/CORT: corticosterone, ♀: female, ♂: male.

Supplementary Figure 2. CORT has no effect on spatial memory task a-c) The Y-maze test reveals that CORT treatment had no effect on spatial memory performance (3-way ANOVA, center entries: sex: $F(1,72) = 7.153$, $p < 0.01$). Columns represent the mean $\pm$ S.E.M. of 10 determinations per group. WT: wildtype, hMet: heterozygous for brain-derived neurotrophic factor Val66Met, V: vehicle, C/CORT: corticosterone, ♀: female, ♂: male.

Supplementary Figure 3. Expression of mRNA and methylation of NR3C1 Measurement of vHPC mRNA levels as $2^{-\Delta Ct}$ for *Nr3c1* a) exon 1_A, b) exon 1_D, and c) exon 1_H (3-way ANOVA, exon 1_D mRNA: sex x genotype: $F(1,46) = 6.458$, $p < 0.05$; exon 1_H mRNA: genotype: $F(1,46) = 4.190$, $p < 0.05$, sex: $F(1,46) = 9.009$, $p < 0.01$). d) Measurement of NR3C1 exon 1_A methylation levels from the vHPC are expressed as $2^{-\Delta Ct}$ (3-way ANOVA, genotype: $F(1,39) = 4.421$, $p < 0.05$, treatment: $F(1,39) = 4.599$). Columns represent the mean $\pm$ S.E.M. of 4-7 determinations per group. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$. PND: post-natal day, WT: wildtype, hMet: heterozygous for brain-derived neurotrophic factor Val66Met, V: vehicle, C: corticosterone, ♀: female, ♂: male.