**SUPPLEMENTAL FIGURE LEGENDS**

**Supplemental Figure 1: LH & FSH responses to a high dose of senktide in pre-pubertal rats and adult male rats.** The effects of intracerebroventricular (icv) administration of 3 nmol senktide on LH and FSH release are shown for pre-pubertal (25-day-old) (A) and adult (B) male rats. Senktide was acutely icv injected and blood samples for hormone determination were taken at 20- and 60-min after injection; animals injected with vehicle (VEH) served as controls. **P ≤ 0.01 vs. corresponding levels in vehicle-treated animals (ANOVA followed by Student-Newman-Keuls multiple range test).**

**Supplemental Figure 2: Effect of Dyn blockade on LH release in male and female rats.** Changes in serum LH levels are shown from adult male (A) and female (B) rats, pre-treated with a single dose of vehicle or the KOR antagonist, nor-BNI. Blood samples for LH determinations were obtained immediately prior to vehicle or nor-BNI administration (-90 min, basal), and at the time-points used in Experiments 6 & 7 (0-, 20- and 60-min after senktide administration). To ease visualization of relative changes in LH levels after nor-BNI treatments, basal LH concentrations in vehicle groups (at -90 min) were normalized to 100% and hormonal values from the other groups were adjusted accordingly, to express % increase over basal. *, P ≤ 0.05, vs. corresponding basal values (ANOVA followed by the Student-Newman-Keuls multiple range test).