Table 1. I_{SK} Response to GnRH in Voltage-Clamped Gonadotrophs

			1 nM GnRH Response [1]				
Treatment	**C_m (pF)**	**Baseline I_m (pA/pF)**	**Oscillations Number**	**Oscillations Frequency (Hz)**	**Peak I_{SK} (pA/pF)**	**[2]Mean I_{SK} (pA/pF)**	**[3]Area/osc (pA·s/pF)**
No steroid (n = 41)	7.04 ± 0.15[a]	0.9 ± 0.1[a]	15 ± 1[a]	0.14 ± 0.01[a]	9.6 ± 0.8[b]	3.7 ± 0.4[b]	27 ± 3[b]
E_2 pretreatment[4] (n = 34)	7.20 ± 0.20	1.1 ± 0.1	14 ± 2	0.15 ± 0.01	5.7 ± 0.6	2.2 ± 0.3	16 ± 2

Mean ± SEM; V_m = -66 mV; 1 min GnRH exposure

[1]Current response to GnRH was taken as time from the first detectable I_m change from baseline after start of GnRH exposure until the current returned to baseline. Within this time period the baseline corrected peak and mean I_m and area under the response were determined on records filtered at 100 Hz post-acquisition using Clampfit (pClamp software suite). Oscillation frequency was determined from the number of oscillations and the length of the response.

[2]Average I_{SK} during the response to GnRH

[3]Area under the I_{SK} response divided by the number of oscillations

[4]E_2, 0.2 nM, 2 – 5 days

[a]No steroid and E_2 pretreatment values are not different from each other.

[b]No steroid value significantly different from E_2 pretreatment value, $P < 0.008$