

Table S1.

The comparison of K⁺ channels gene expression in multiple uterine cell types and myometrial cells

Gene (Channel)	Whole myometrium (ACT) (n = 7)	LCM myometrium (ACT) (n = 5)	Fold difference (AACT) Whole vs LCM	P
KCNJ13 (Kir7.1)	22.57 ± 0.17	19.27 ± 1.73	8.12 (2.71 - 24.3)	0.01
KCNH2B (Kv11.1)	21.68 ± 0.19	18.20 ± 2.54	6.84 (1.69 - 27.8)	0.05
KCNAB3 (AKR6A9, KCNA3.1B, KV-BETA-3)	23.79 ± 0.32	21.18 ± 1.14	5.99 (2.75 - 13.1)	0.01
KCNG1 (Kv6.1)	20.50 ± 0.13	19.03 ± 1.41	2.53 (1.04 - 6.14)	0.03
KCNMB1 (Slo-Beta)	15.38 ± 0.28	13.96 ± 0.92	2.42 (1.37 - 4.30)	0.01
KCND3 (Kv4.3)	17.88 ± 0.10	16.79 ± 0.94	1.99 (1.10 - 3.62)	0.04
KCNMA1 (Kcal1.1, BKca, Maxi K)	14.92 ± 0.27	13.93 ± 0.46	1.83 (1.38 - 2.43)	0.01
KCNB1 (Kv2.1)	16.19 ± 0.14	17.03 ± 0.69	0.58 (0.37 - 0.91)	0.03
KCNQ1 (Kv7.1)	20.10 ± 0.24	21.48 ± 0.90	0.39 (0.21 - 0.72)	0.03
KCND2 (Kv4.2)	21.00 ± 0.13	23.81 ± 1.74	0.16 (0.05 - 0.49)	0.01

Table S1 depicts ΔCt (mean $\pm$ s.e.) and fold difference (whole vs LCM; $\Delta\Delta\text{Ct}$ whole vs LCM (mean, 95% C.I.)) of K⁺ channel genes differentially expressed between whole myometrial biopsy and laser captured smooth muscle. Black depicts genes significantly ($P < 0.05$, Two tailed Student's T-Test) enriched in laser captured smooth muscle cells. Red depicts genes significantly enriched in non-myometrial smooth muscle in whole myometrial biopsy. KCNJ13 was eightfold higher in laser-captured samples when compared to whole tissue indicating enrichment in myometrial smooth muscle cells.