

Supplementary Materials

Table S1. Ca²⁺-free PSS composition used for cytosolic Ca²⁺ measurements in cell lines (ph adjusted to 7.4 with NaOH).

Solution	Concentration (mM)
NaCl	140
MgCl ₂	2
KCl	4
D-Glucose	11.1
HEPES	10
EGTA	1

Table S2. siRNA sequences used for transfection assays.

Name	Sequences 5'-3'
siControl	5'-GGAAAGACGAUGACGGAAAUU-3' 5'-UUUCCGUCAUCGUCUUUCCUU-3'
siZeb	5'-AACUGAACCGUGGGAUUUUU-3' 5'-AUAAUCCACAGGUUCAGUUUU-3'
siSK3	5'-UAGUCACUCAGUCGCUUUC-3' 5'-GAAAGCGACUGAGUGACUA-3'

Table S3. Primers used for quantitative real-time PCR.

Name	Sequence 5'-3'
Zeb1 forward	TGCACTGAGTGTGGAAAAGC
Zeb1 reverse	TGGTGATGCTGAAAGAGACG
N-cadherin forward	GGCGTTATGTGTGTATCTTCACTG
N-cadherin reverse	GCAGGCTCACTGCTCTCATA
MMP9 forward	ACGCACGACGTCTTCCAGTA
MMP9 reverse	CCACCTGGTTCAACTCACTCC
SK3 forward	TGGACACTCAGCTCACCAAG
SK3 reverse	GTTCCATCTTGACGCTCCTC
Snail forward	AATCCAGAGTTTACCTTCCAGCA
Snail reverse	TCCCAGATGAGCATTGGCAG
Slug forward	GAACTGGACACACATACAGTGAT
Slug reverse	ACAGTGATGGGGCTGTATGC

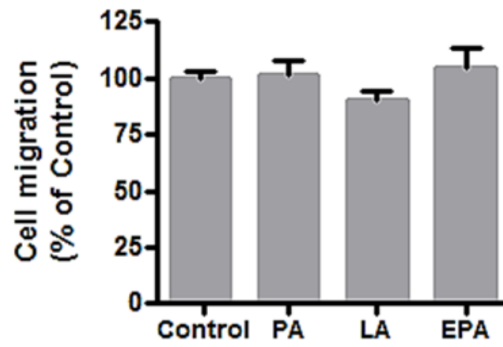


Figure S1: Effect of fatty acids on basal migration. DU145 cells were treated for 48h with Figure 20. μ M) and then used for transwell assay performed for 24 h. Results are expressed as mean \pm SEM. $N = 3$; $n = 2$.

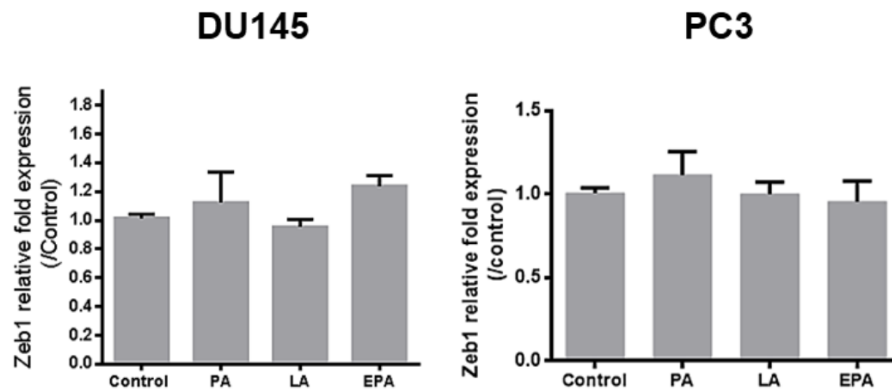


Figure S2. Effect of fatty acids on basal Zeb1 expression. DU145 and PC3 cells were treated for 48 h with fatty acids (20 μ M). qPCR results are expressed as mean \pm SEM. $N = 3$; $n = 3$.

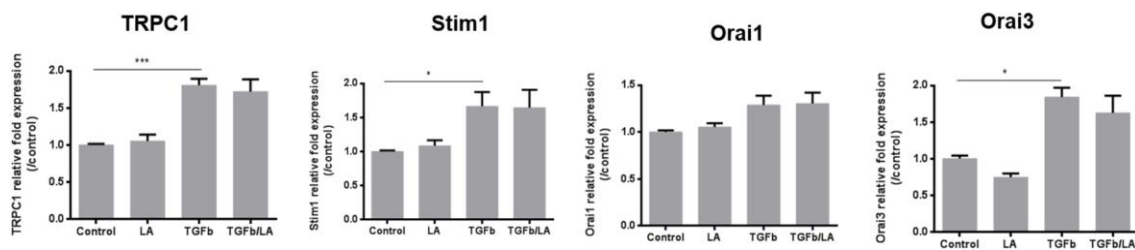


Figure S3. Effect of LA on the expression of TRPC1, STIM1, Orai1 and Orai3. PC3 cells were co-treated for 48 h with TGF and fatty acids (20 μ M). qPCR results are expressed as mean \pm SEM. $N = 3$; $n = 3$.

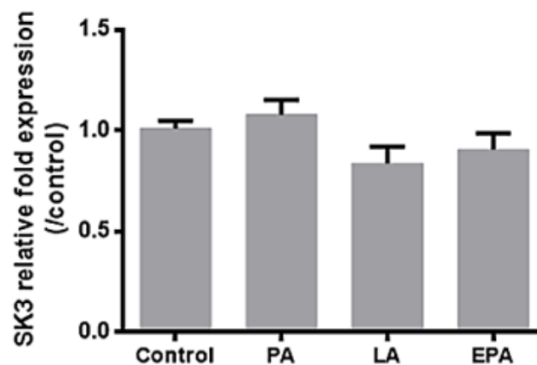


Figure S4. Effect of Fatty acids on basal SK3 expression. Cells were treated for 48 h by fatty acids (20 μ M). qPCR results are expressed as mean \pm SEM. $N = 3$; $n = 3$.

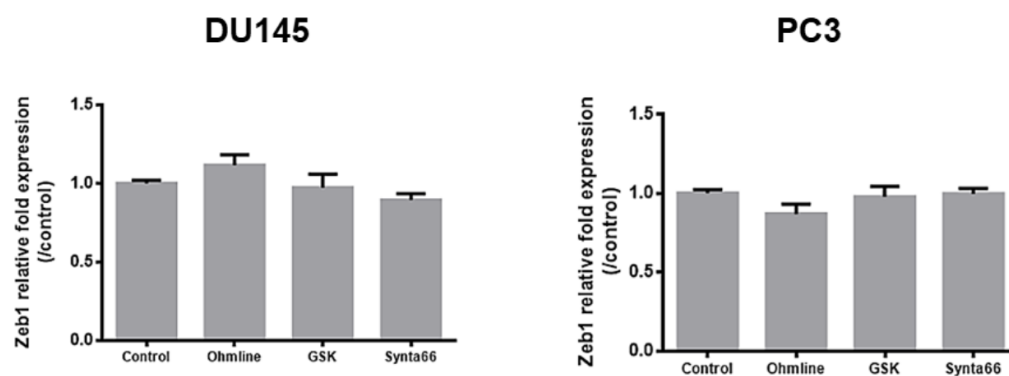


Figure S5: Effect of Ca²⁺ channel inhibitors on Zeb1 basal expression. PCa cells were treated with TGF β (10 ng/mL) \pm GSK7975A, Synta66, or Ohmline (1 μ M) for 48 h. qPCR results are expressed as mean \pm SEM. $N = 3$; $n = 3$.