Supporting Information

A Bufadienolide-Enriched Fraction of *Bryophyllum pinnatum* Inhibits Human Myometrial Contractility *In Vitro*

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Fig. 1S A HPLC chromatogram of the hydrolysed juice. Myricetin (a), quercetin (b), kaempferol (c), diosmetin (d). Analyses were performed using an Atlantis dC-18 column (4.6 × 100 mm, 3 μm; Waters) with H₂O + 0.1% formic acid (A) and MeOH + 0.1% formic acid (B). Isocratic elution with 50% B for 2 min, then 50-75% B in 28 min; 0.6 mL/min. Detection was at UV 254 nm. B Calibration curve of quercetin (0.0125-0.2 μg/mL)
**Fig. 2S** Effect of repeated addition of the flavonoid-enriched fraction (FEF) and corresponding flavonoid aglycon mixture (A-Mix), the bufadienolide-enriched fraction (BEF), *B. pinnatum* leaf press juice (BPJ), and the corresponding controls (Krebs solution and DMSO) on human myometrial contractility *in vitro*. Krebs solution (20 μL), DMSO (2 μL), FEF (2 μL of 150 mg/mL DMSO stock solution), A-Mix (2 μL of 6.21 mg/mL DMSO stock solution), BEF (2 μL of 1 mg/mL DMSO stock solution), or BPJ (20 μL) were repeatedly added to the myograph chamber. When uterine strips were contracting regularly for 20 min, Krebs solution was added to the organ bath (addition 0) and contractility was recorded for 20 min. Thereafter, a test substance was added four times at intervals of 20 min each, and contractility was recorded for 20 min after each addition. A washout period of 30 min followed, with a change of Krebs solution at 5, 10, 20, and 30 min. If the strip was not contracting spontaneously at the end of the washout period, oxytocin was added (final contraction 1 U/L). Data are from one representative experiment out of five.
Fig. 3S Cytotoxic effects of DMSO (0.2-6.0%) on human myometrium cells (hTERT-C3 and PHM1-41). Viability assays were performed after a 48-h incubation. Ethyl methanesulfonate was used as a positive control (PC). Data are presented as the mean ± SEM of four independent experiments (n = 4) carried out at least in quadruplicate; *p < 0.05.