

- In vitro investigation of human or animal myometrium function in organ baths.
 - myometrium body
 - both uterine horns
- Useful to investigate the effect of drugs developed to improve pathophysiological conditions in women's health (endometriosis, uterine fibroids, pre-menstrual cramps, ...).
- Evaluation of the ability of drugs at modulating myometrium smooth muscle tone can be performed in organ bath studies:
 - on spontaneous phasic contractions
 - on pharmacological or EFS stimulations
- Evaluation of mRNA by RT-PCR
- Evaluation of protein expression: by immunohistochemistry (IHC) or western-blot (WB) in parallel of organ bath studies.

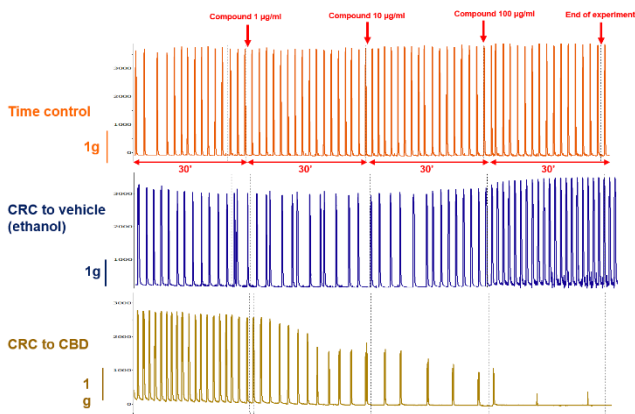


Figure 1: Original tracing showing a concentration-response curve to CBD or CBDA in rat uterine body tissue or rat myometrium tissue. (Pelvipharm, internal data).

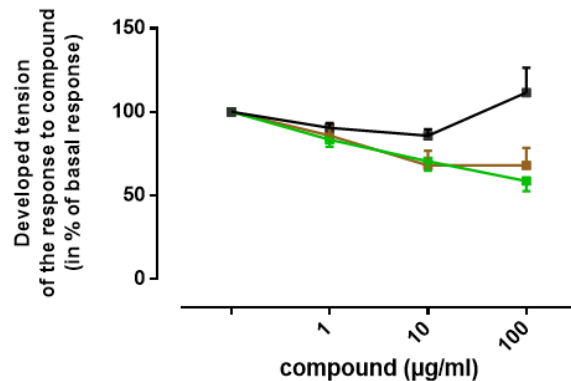


Figure 2: Effect of X (green) and Y (brown) : Developed tension of the spontaneous contractions on rat body uterine strips. (Pelvipharm, internal data).

Endpoints

- Evaluation of the capacity of a drug to inhibit human or rat vagina smooth muscle contractions.
- Determination of potency (**EC₅₀**) and efficiency (**E_{max}**) of a drug.
- Determination of the affinity (**pA₂**) of a drug for a human or rat myometrium receptor.

NB: Pelvipharm will gladly study the feasibility to fit this experimental model to its client's needs.