

Animal & human isolated tissues

Pathologies of interest

- Constipation, diarrhea
- Crohn's disease, ulcerative colitis
- Irritative bowel syndrome (IBS)
- Dyspepsia

Functional pharmacology assays

- Evaluation of *ex-vivo* contraction or relaxation of tissues in physiological or pathological conditions
- Myogenic or neurogenic protocol:
 - myogenic contraction is chemically- or physically- induced via a direct stimulation of the smooth muscle
 - neurogenic contraction is the resultant of an indirect contraction of the smooth muscle by neurotransmitters release under electrical field stimulation of nerve endings
- Construction of concentration-response curves for determination of potency (EC_{50}), efficacy (E_{max}) or affinity (pA_2)

Regulatories

Animal

- Complies with national and international guidelines
- Mouse, rat, guinea-pig, rabbit, other upon request

Human

- Complies with bioethical French and European legislations
- Partnerships with French hospitals
- Serological controls (HIV1&2; HTLV1&2; HBV, HCV)

Tissue collection

- Intestine
- Colon
- Stomach
- others upon request

5 mL-organ baths apparatus
for *ex-vivo* functional studies on isolated tissues



Representative recordings illustrating the concentration-dependent relaxations or contractions to forskolin or arecoline in the guinea-pig isolated proximal colon.

