



# Animal isolated tissues

## Pathologies of interest

- Overactive bladder (OAB)
- Neurogenic bladder
- Benign prostatic hyperplasia

## Functional pharmacology assays

- Evaluation of *ex-vivo* contraction or relaxation of tissues in physiological or pathological conditions
- Myogenic or neurogenic protocol (EFS: Electrical Field Stimulation)
- Construction of concentration-response curves for determination of potency ( $EC_{50}$ ), efficacy ( $E_{max}$ ) or affinity ( $pA_2$ )

## References

- Rouget *et al.*, *Pharmacol Res* 80: 14-20, 2014
- Rekić *et al.*, *Eur J Pharmacol* 650: 403-410, 2011
- Deba *et al.*, *Eur J Pharmacol* 618: 76-83, 2009

## Species

- Mouse
- Rat
- Guinea-pig
- Rabbit
- Other upon request

## Regulatories

Complies with national and international guidelines

## Tissue collection

- Urinary bladder
- Prostate, urethra, ureter
- Others upon request

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



Effect of tomoxetine on the norepinephrine (NE)-induced contraction of the rabbit isolated urethra.

