

## **TP2: Experimental animal model of chemically induced gastric ulcer in the mouse**

### **Chemically induced gastric ulcer by ethanol and Hcl**

- Animal species: Male albino Wistar mice, adults and healthy.
- Animals are kept fasted for 24 hours with free access to water.
- Administer 1ml/kg of 150 mM HCL (prepared in 80% ethanol) by gastric gavage.
- Sacrifice the animals after 30 min of administration.
- Isolate, open and rinse the stomach in physiological water.
- Evaluate the rate of ulceration.
- Store the stomach at -20 C for ulterior use.

### **Questions**

- 1/ Indicate why animals must be fasted for at least 24 hours before administering HCl.
- 2/Propose parameters to evaluate the antiulcer effect of a bioactive molecule in this ulcer model.
- 3/Propose another experimental animal model of gastric ulcer. Compare the validity of the two models.