

### Background

Newborn mice and rats are a suitable model for pediatric research from prematurity to adolescence: they resemble preterm human infants regarding neurodevelopmental characteristics, and mutant models of pediatric diseases are available at an increasing proportion.

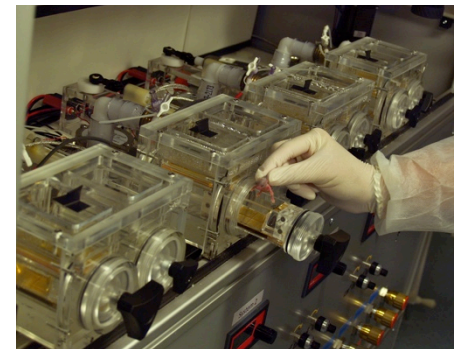
For any study carried out in newborn rodents, monitoring vital functions is pivotal to decipher the pathophysiology of a disease, or explain the effect of a treatment.

### Technology

- Specifically developed for newborn animals since birth
- Completely non-invasive. Animals are freely moving in the chamber.
- All parameters measured simultaneously
- Temperature controlled
- Study of 4 animals at the same time

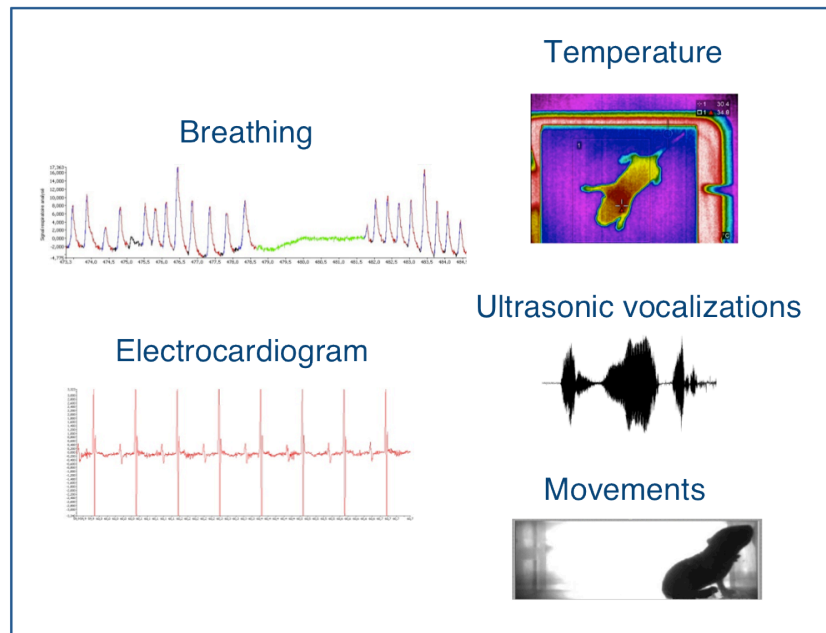
### Monitoring vital functions in newborn rodents

We have developed and patented the PhysioPups® device for non-invasive measurement of respiratory patterns, electrocardiogram (ECG), body temperature, gross body movements, and ultrasonic vocalizations. Four animals can be tested simultaneously, starting at birth, under controlled conditions of temperature and gas composition. The PhysioPups® device has no equivalent on the market.



Capabilities

PhysioPups® allows simultaneous measurement of breathing, heart rate, gross body movements, and ultrasonic vocalizations, in rat and mouse since birth.



Proven accuracy

During the last decade, PhysioPups® has been widely used in the frame of research on rodents post-natal development. See [www.phenopups.com](http://www.phenopups.com) for a list of published works.

PhenoPups expertise and PhysioPups® device is the perfect combination for your studies on newborn and juvenile rodents.