



TELEMETRIC JACKET FOR COMBINED CARDIORESPIRATORY AND ACTIVITY MONITORING WITH ONE SINGLE SYSTEM



DECRO® is an innovative physiological monitoring solution for your in-vivo studies. It provides high definition, quality and reliability for **the recording of ECG, Respiratory cycles and activity index in conscious, freely moving rats** over 180 grams.

DECRO® is composed of a unique connected jacket embedding respiratory inductive plethysmography (RIP) sensors and protecting the ECG electrodes, a high-performance Bluetooth emitter and a plug & play, small footprint acquisition server, on which is executed LASA, our proprietary software.



ALL-IN-ONE SOLUTION

Simultaneous recording of 3 biosignals

- Cardiac
- Respiratory
- Activity



SIMPLE & RAPID

- No surgery
- No post-operative recovery period
- Rapid setup
- Plug & Play solution
- Remote access



ANIMAL WELFARE

- Freely moving animals in their housing cage
- Contributes to the 3Rs guidances
- More data from a single animal

MORE INFORMATION ON WWW.DECRO.FR

DECRO[®] SOLUTION



DECRO JACKET | SOFT & STRETCH

- Records trunk volume variations and external ECG
- Allows animal to express its behavioral repertoire with minimal constraints
- Easy and rapid to dress (10 min to start)
- 4 sizes to fit with animal weight



LASA SOFTWARE | PLUG & PLAY

- Pre configure experimental plan
- Scheduled recording
- Advanced algorithms for automatic cardiac and respiratory cycle detection
- Full control on data processing with display at every stage of the analysis
- Data exportation in non-proprietary format



APPLICATIONS



BASIC CARDIORESPIRATORY MONITORING

To monitor post-surgery recovery, identify potential suffering signs or humane endpoints.

To monitor cardiac and or respiratory function in an integrative study or train students on animal physiology.



PHYSIOPATHOLOGY / LONGITUDINAL STUDIES

To follow longitudinal effects on cardiorespiratory function or monitor cardiac and respiratory functions on pathology models.



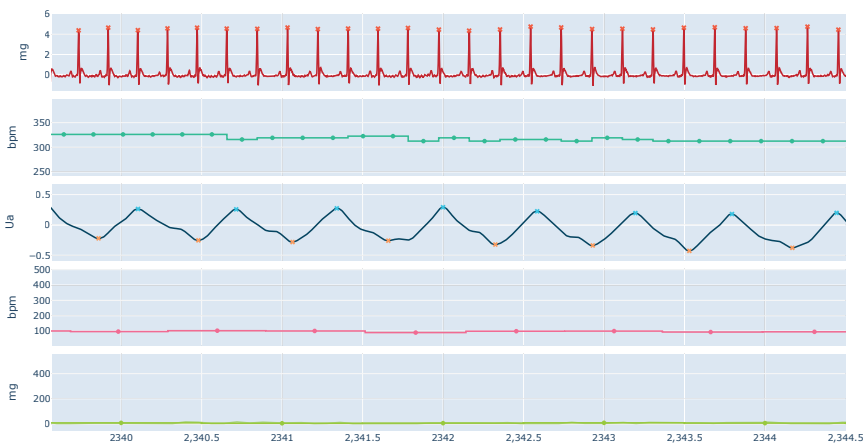
EARLY SAFETY PHARMACOLOGY

To evaluate early in the development process the safety and pharmacology effect of candidate on cardiorespiratory function
To accelerate decision process.

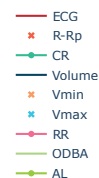
MONITORING OF 3 BIOSIGNALS

Biosignals are recorded simultaneously to gather relevant information on cardiac and respiratory functions with activity level in a timely manner. **Equipped animals are freely moving in their environment during recording.**

EXAMPLE OF SIGNALS AND INSTANTANEOUS PARAMETERS RECORDED OVER 4 SECONDS



The signal above is recorded during a resting phase from an adult Sprague Dawley male rat, dressed with DECRO jacket. The figure displays from top to bottom a low noise ECG with R-peaks and QRST complex visible, instantaneous cardiac rate, respiratory cycles and instantaneous respiratory rate and activity level.



CONTACT US FOR MORE INFORMATION OR FOR A DEMO

ABOUT

DECRO[®] is a brand of ETISENSE, a company dedicated to research and development of connected physiological monitoring solutions

Etisense

Jacketed monitoring For life sciences

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