

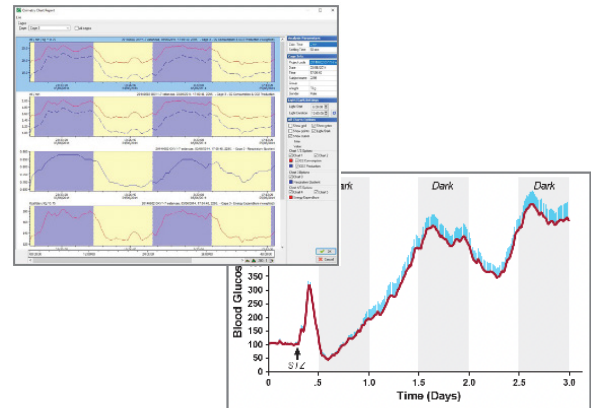
Metabolism and Telemetry

Reduce your workload and maximize results.

OxyletPro from Panlab is a user-friendly and cost-saving optimized system for carrying out metabolism studies in small laboratory animal models. Configurations are available for home cage metabolism phenotyping with our Physiocage system, and for digestive efficiency assessment with our metabolic Waste Collection (urine, feces) experimental chamber. Respiratory metabolism, food and drink intake and activity data are provided in optimized home cage and metabolic cage environments designed to minimize the stress during the experiment, and ideally suited to incorporate DSI telemetry to the study design.



OxyletPro Physiocage and Waste Collection cage with DSI telemetry receiver stand.



Day/night respiratory metabolism data evolution (top left) and continuous blood glucose monitoring (bottom right)

Applications:

- Metabolic Disease
- Diabetes
- Obesity
- Circadian Rhythm
- Phenotyping

Functions & Parameters:

- Heart Rate, Blood Pressure, ECG
- Continuous Glucose Monitoring
- EEG, EMG, Sleep
- Respiratory Rate
- Body Temperature
- VO₂ consumption, VCO₂ production, Respiratory Exchange Ratio and Energy Expenditure
- Food and Drink Consumption
- Activity

Combination Benefits:

Combining telemetry with OxyletPro can provide real-time cardiovascular, temperature and/or glucose data to better understand clusters of conditions and related activity that are often associated with metabolic diseases, hypertension, and diabetes.