

Rat Metabolic Physiology Sub-Core Indirect Calorimetry

Indirect Calorimetry performed by the Rat Metabolic Physiology Sub-Core

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Comprehensive Laboratory Animal Monitoring System (CLAMS)

The laboratory has invested in equipment that allows investigators to address the rates of whole body substrate oxidation by the assessing the respiration rates of O_2 and CO_2 . The Oxymax Deluxe System measures whole body oxygen consumption (VO_2) and carbon dioxide production (VCO_2) continuously. These measurements are used to calculate both the oxidation of carbohydrates and fats using the respiratory exchange ratio ($RER = VCO_2/VO_2$), as well as the amount of heat produced in kcal/hr. The system consists of a personal computer based measurement that employs the host computer as a system controller and as a data collection, storage, and presentation device. Other measurements available include food consumption, water consumption, and activity.

