Carbon Monoxide Uptake Monitor for testing lung impairment

Carbon Monoxide uptake can be used in lab animals to assess the impairment of lung functions caused by radiation, environmental pollutants, and toxic or irritable inhalants. It is well known that the carbon monoxide uptake decreases when the lung function decreases. Our new instrument non-invasively measures diffusive function of the lung epithelium, by measuring rate of carbon monoxide uptake and respiration rate (BPM).

Hypoxia Gas Mixer

The Gas Mixer, Pegas 4000, is designed to mix up to 4 separate gases and deliver them as a modified atmosphere. Each component is controlled by individual flow controllers; all calculations are performed internally so the user need only input basic commands. System runs in stand alone operation or by PC connection (software included).

VO2/VCO2 Metabolic System

The VO2/VCO2 metabolic system; Oxymax, measures Oxygen consumption and Carbon Dioxide production rates and calculates Respiration Exchange Ratios in animals. The Oxymax also serves as a platform on to which other sub systems are added. These sub systems are various in function, and can measure other parameters such as Food Intake, Drinking Volume, Animal Activity, Temperature and Heart Rate (via telemetry), and urine collection in up to 32 subjects. These systems are custom built to customer specifications and include software, installation, and on-site training.

Animal Exercisers

The Modular Enclosed Treadmill is specifically designed for measuring VO2/VCO2 during exercise.

Exer 3/6 Open Treadmill for Mice and Rats

The Exer 3/6 is a general purpose exercise treadmill for 3 rats or 6 mice.

Both the Modular Treadmill and the Exer 3/6 feature adjustable speed (6-100 m/M) and adjustable inclination (0-25°). Both have optional electric stimulus with adjustable intensity and repetition rate. Also available is the “Humane Stimulus” option which counts visits to the shocker and turns it off to prevent injury.

Columbus Instruments

950 N. Hague Ave.; Columbus, OH 43204 U.S.A.
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Assistant/Associate Professor MD and/or PhD

The Division of Pulmonary Medicine at Cincinnati Children’s Hospital is seeking a new faculty member to develop basic science research related to affect of intermittent/chronic hypoxia on the cardiovascular system and metabolism. The applicants must have an accomplished record of laboratory research and ability to establish funded independent research programs. The Cincinnati Children’s Hospital Research Foundation provides a rich environment for collaborative research across divisions. The candidates should have the ability to establish collaborative relationships with other investigators within and across divisions.

Please provide curriculum vitae, a description of research interests, and the names and addresses of three references to: Raouf Amin, Director, Division of Pulmonary Medicine (MLC 2021), Cincinnati Children’s Hospital, 3333 Burnet Avenue, Cincinnati, OH 45229.

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