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

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Under the NIH Public Access Policy, NIH is asking its funded investigators to voluntarily submit to PubMed Central (PMC) the author’s final manuscript of articles resulting from research supported in whole or in part with direct costs from NIH. According to the NIH, this policy applies only to manuscripts accepted for publication on or after May 2, 2005.

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CALL FOR NOMINATIONS

for the Chair of the Book Advisory Committee

Nominations are invited for the Chair of the Book Advisory Committee, a sub-committee of the Publications Committee, to start a 3-year term, renewable once, on January 1, 2007. The Publications Committee plans to interview candidates in the Fall of 2006.

The Chair of the Book Advisory Committee will be expected to recruit a Committee of four to six members who have an interest in maintaining and strengthening the APS’s book program, including its well-known Handbook Series. All APS books are published jointly with a commercial publisher who bears all production costs and pays royalties under a contractual arrangement with APS.

Duties of the Book Advisory Committee are to:

- Identify, in consultation with the publisher and experts in the field, topics and authors and/or chief editors for books, both print and online.
- Ensure timely production of books.
- Propose topics and authors/editors via committee discussion, solicitation of outside experts, and the copublisher.
- Develop rationale and need for proposed books.
-Nominate potential book editors for appointment by the Publications Committee.
- Approve the outlines and individual authors recommended by the chief editors, who will extend the invitation; and maintain close communication with the editor on the progress of each book.
- Assist the editor in holding authors to deadlines.
- Review unsolicited book proposals sent to the APS.
- Meet annually at the APS Headquarters in Bethesda, the EB meeting, or through conference calls. A representative of the copublisher is invited to attend.
- Maintain close communication with the Director of Publications.
- Present an annual written progress report to the Publications Committee.

Applications should be received before September 15, 2006.

Nominations, accompanied by a curriculum vitae, should be sent to the Chair of the Publications Committee:

Kim E. Barrett, Ph.D.
American Physiological Society
9650 Rockville Pike
Bethesda, MD 20814

Or as an email to mreich@the-aps.org
CALL FOR NOMINATIONS

for the Editorship of the

American Journal of Physiology–Regulatory, Integrative, and Comparative Physiology

Nominations are invited for the Editorship of the American Journal of Physiology–Regulatory, Integrative, and Comparative Physiology to succeed P. Persson, who will complete his term as Editor on June 30, 2007. The Publications Committee plans to interview candidates in the Fall of 2006.

Applications should be received before August 15, 2006.

Nominations, accompanied by a curriculum vitae, should be sent to the Chair of the Publications Committee:

Kim E. Barrett, Ph.D.
Department of Medicine
University of California, San Diego
San Diego, CA 92103-8414

CALL FOR NOMINATIONS

for the Editorship of the

American Journal of Physiology-Renal Physiology

Nominations are invited for the Editorship of the American Journal of Physiology-Renal Physiology to succeed J. Sands, who will complete his term as Editor on June 30, 2007. The Publications Committee plans to interview candidates in the Fall of 2006.

Applications should be received before August 15, 2006.

Nominations, accompanied by a curriculum vitae, should be sent to the Chair of the Publications Committee:

Kim E. Barrett, Ph.D.
Department of Medicine
University of California, San Diego
San Diego, CA 92103-8414
Comparative Physiology 2006: Integrating Diversity

Plenary Lectures:
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- Steroidal Regulation of Amphibian Developmental Physiology and Behavior
- Survival Physiology: A Reassessment of why Big, Fierce Animals are Rare
- The Comparative/Ecological Physiology of Nectar-feeding Birds: The Last 15 Years
- Necrophysiology

Symposia
- Passing Gas: The Vascular Biology of NO, CO and H₂S
- Design - Molecular Basis and Evolution of Muscles for Different Activities
- Complexity in Physiological Systems: Recognition, Definitions, Modeling, and Predictions
- Energizing Transport Across Epithelia in Insects
- Molecular Aspects of the Mechanisms of Hibernation
- Fuel Selection during Exercise: Mechanisms, Ecological and Evolutionary Implications
- Physiological and Molecular Responses to Cold and Desiccation Stress in Ectotherms
- Linking Body Size and Physiology with Life History: Walking in the Footsteps of Bill Calder
- Physiological Adaptation of Fishes to Life at the Extremes
- Field Metabolic Rate - FMR: Physiological Traits and Ecological Implications
- Comparative Biology of Aging in Long-lived Animals
- Comparative Mechanisms of Respiratory Rhythm Generation and Chemoreception
- Hypoxic Effects on Vascular Tone: Mechanisms of Hypoxic Vasoconstriction in Vertebrates
- Muscles as Springs: Molecules to Movement
- Blood Rheology “Abnormalities” in Marine and Terrestrial Animals: What Lessons Can We Learn?
- Comparative Molecular Physiology of Acid-base Regulation
- Aquaporins and Aquaglyceroporins in Vertebrates: Evolution and Diversity
- Dividing the Undivided: Shunting and Flow Separation in Reptile Hearts
- Biomedical Applications of Suspended Animation
- Comparative Nutritional Physiology: Nutrient and Toxicant Absorption, Postabsorptive Fate, and Ecological Implications

Physiological Genomics and Proteomics of Lung Diseases

Symposia
- Genomics and Proteomic Approaches to Studying Lung Disease
- Proteomic and Genomic Approaches to Developing Potential Therapeutic Targets
- Genomics and Proteomics of Airway and Vascular Disease
- Genomics and Proteomics of Environmental Lung Disease
- Acute Lung Injury and Inflammation

For Information on these upcoming APS Conferences, visit: www.the-aps.org/meetings/
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