Lab Animal Metabolism Monitor: Oxymax - CLAMS

The Columbus Instruments Oxymax - CLAMS (Comprehensive Lab Animal Monitoring System) is a versatile device for monitoring metabolic performance of mice and rats. Customers choose from a selection of sub-systems that allow for the measurement of these possible parameters:

- VO2/VCO2 & RER
- Food Intake
- Drinking Volume
- Urine Production
- Body Mass
- Breaths / Minute
- Animal Activity
- Yoked and/or Paired Feeding
- Core Temp. & Heart Rate
- Running Wheel Activity
- Optional Environmental Enclosure

For more information: www.colinst.com

Animal Activity Monitor

The Columbus Instruments Auto-Track Activity Meter presents the ultimate flexibility for measuring in home or special cages. Measures these parameters:

- Distance Traveled
- Path of Movement
- Ambulatory Movement
- Stereotypic Movement
- Rearing (Vertical)
- Rotations
- Open Field
- Hole Poke
- Light / Dark
- Time-In-Square

Animal Treadmill

The Exer 3/6 Treadmill provides 6 mouse lanes or 3 rat lanes for general purpose exercise. Speed is adjustable from 2-102 m/min and acceleration is programmable in 0.1 m/min steps per second. Available with or without electric stimulus or optional stimulus detection system.

Rota-Rod: Rotamex-5

The Rotamex-5 measures coordination in up to four mice or rats by recording the latency to fall from a spinning rod. Key features include:

- Reports latency time to fall for each subject
- Reports rod speed in RPMin, or in cm/sec.
- Adjustable speed from 0-99.9 RPMin.
- Fully adjustable acceleration 0.1-20 RPMin/sec.
- Fall detection by photocells above the rod
- Detection of passive rotation (looping) in mice

Non-Invasive Blood Pressure: Columbus NIBP

The Columbus Instruments NIBP system measures blood pressure in mice and rats by way of specially designed tail cuffs. The system can support measurements in up to 8 animals, key features include:

- Systolic, Diastolic, and Mean Blood Pressure
- Warming Compartment heats the tail only for stronger Heart Rate signal with lower stress
- Thermostatic and adjustable Warming control
- Supports Manual and Automatic measurements
- Each measurement takes only 16 seconds
- Measurement quality is graded and reported
To take advantage of this new feature, please insert the native expression of your name alongside the English transliteration in the main title page of your manuscript submission.
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*Journal of Applied Physiology*

Nominations are invited for the Editorship of the *Journal of Applied Physiology* to succeed J. Dempsey, who will complete his term as Editor on June 30, 2011. The Publications Committee plans to interview candidates in the Fall of 2010.

Applications should be received before **August 15, 2010**.

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  20814-3991

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APS Intersociety Meeting: Global Change and Global Science: Comparative Physiology in a Changing World

Date & Location: August 4-7, 2010
Westin Westminster Hotel, Westminster, Colorado
Abstracts Due: May 3, 2010 Advance Registration: June 25, 2010

Preliminary Program:
- The Role of Physiology in Organismal Responses to Global Warming
- Off the Beaten Path: Integrative Aspects of Muscle Function During Diverse Locomotor Behaviors
- Hydration, Desiccation, Regulation: The Comparative Physiology of Water Balance
- Physiological Effects of Ocean Acidification on Marine Animals in Times of Ocean Warming: Ecosystem Implications
- Evaluating the Effects of Global Climate Change to the Fauna of South American Biomes: Consequences to Diversity from a Physiological Perspective
- Environmental Adaptations of Cardio-Respiratory Systems
- Putting Comparative Physiology to Work in the Field: Stable Isotopes as Tracers of Ecological Processes
- Genomics and Proteomics Approaches to Understanding Environmental Stress
- The Life History Physiology Nexus
- The Physiology of Trace Metal Homeostasis and Toxicity
- Global Change and the Emerging Threat of Dead Zones: Can Individuals, Populations, Species, and Communities Respond to Increasingly Hypoxic Oceans?

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APS Conference: Inflammation, Immunity and Cardiovascular Disease

Date & Location: August 25-28, 2010
Westin Westminster Hotel, Westminster, Colorado
Abstracts Due: May 14, 2010 Advance Registration: July 23, 2010

Preliminary Program:

Basic Aspects of Immunology
- Basic Aspects of T Cell Function
- How to Measure and Study Immune Responses
- Events in the Lifespan of a T Cell
- Cytokines and the Use of Cytokine Directed Therapy
- Roles of NK and NKT Cells During Early Lesion Formation

Cell Interactions and Antigen Presentation
- Antigen Presentation and Dendritic Cell Function
- The Dendritic Cell and Transition from Innate to Adaptive Immunity

Inflammation and the Metabolic Syndrome
- Obesity and Inflammation
- Toll-Like Receptors and Metabolic Syndrome

Inflammation, the Vascular Wall and Lesion Formation
- Immunobiology of the Endothelium
- The Adaptive Immune Response and Atherosclerosis
- Innate Immunity and Lesion Formation
- Immune Cell Recruitment and Atherosclerosis

Inflammation, Immunity, Hypertension and Renal Disease
- Innate and Adaptive Immune Mechanisms in Salt-Sensitive Hypertension
- T Regulatory Cells, Renal Discourse and Hypertension
- IL-17 and Hypertension
- Immune Cells in Sodium-Sensitive Hypertension
- Renal Inflammation and Renal Injury

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