LAB ANIMAL RESEARCH EQUIPMENT

NON INVASIVE BLOOD PRESSURE MONITOR: Measures systolic, diastolic, mean blood pressure as well as heart rate of mice and rats. The system works on the tail cuff method utilizing a sensor cuff and occlusion cuff. Can measure 1 to 8 animals and system includes software.

VENTILATOR: Interchangeable pistons that allow for more accurate ventilation volumes (0.1-1000 ml). Pistons never require lubrication. The breath rate is adjustable 4-200 bpm as is the inspiration/expiration ratio 1:1 to 1:4.

CLAMS: Comprehensive Lab Animal Monitoring System, developed in collaboration with the Jackson Laboratory. Can measure up to 11 parameters including VO2/VCO2, feeding, drinking, activity, and urine production.

MICROCAPNOGRAPH: Measures end tidal CO2 & N2O in small and large animals (mice, rats, dogs & horses) under anesthesia. Features a very small sample rate (5ml/min@100 bpm to 20ml/min@300 bpm). Data is displayed both numerically and graphically on the front panel.

HUMANE ANIMAL TREADMILL: Accommodates 3 rats or 6 mice. Electric stimulus counts the number of shocks & stops at a user defined number. Features adjustable speed and inclination. Enclosed models also available for VO2/VCO2 measurements.

CARDIAC OUTPUT COMPUTER: Measures cardiac output by thermodilution. The system also measures blood pressure & log EKG. Suitable for animals ranging in size from mice to horses.

FOR FULL RANGE OF LAB ANIMAL EQUIPMENT VISIT WWW.COLINST.COM

COLUMBUS INSTRUMENTS
950 N. HAGUE AVE.; COLUMBUS, OH 43204 U.S.A.
PHONE: (614) 276-0861 FAX: (614) 276-0529
WWW.COLINST.COM SALES@COLINST.COM
Molecular Mechanisms of Human Disease: Injury, Inflammation, and Tissue Repair
July 12-14, 2008, Bethesda, Maryland (USA)

Directors
Martha B. Furie, PhD, Stony Brook University, Stony Brook, NY
Richard N. Mitchell, MD, PhD, Harvard Medical School and Brigham & Women's Hospital, Boston, MA

- **Mechanisms of Cell Injury and Cell Death**
  Charleen T. Chu, MD, PhD, University of Pittsburgh Medical School, Pittsburgh, PA

- **Apoptosis**
  Sandra S. Zinkel, MD, PhD, Vanderbilt University Medical Center, Nashville, TN

- **Neuroprotective and Neuregenerative Strategies to Limit Brain Injury**
  Kevin A. Roth, MD, PhD, University of Alabama at Birmingham, Birmingham, AL

- **Leukocyte Recruitment**
  Martha B. Furie, PhD, Stony Brook University, Stony Brook, NY

- **Leukocyte Activation**
  Andrew Lichtman, MD, PhD, Harvard Medical School and Brigham and Women's Hospital, Boston, MA

- **Leukocyte-Mediated Tissue Injury**
  Andrew Lichtman, MD, PhD, Harvard Medical School and Brigham and Women's Hospital, Boston, MA

- **Resolution of Inflammation**
  Bruce D. Levy, MD, Harvard Medical School and Brigham and Women's Hospital, Boston, MA

- **Pathology of Systemic Inflammation**
  Daniel G. Remick, MD, Boston University School of Medicine, Boston, MA

- **Angiogenesis in Healing Injury**
  Patricia A. D’Amore, PhD, Harvard Medical School and Schepens Eye Research Institute, Boston, MA

- **Atherosclerosis: Inflammation and Wound Healing in the Vessel Wall**
  Richard N. Mitchell, MD, PhD, Harvard Medical School and Brigham and Women’s Hospital, Boston, MA

Early Registration - Deadline May 31, 2008
Late Registration - Deadline June 30, 2008

[www.asip.org/sc08](http://www.asip.org/sc08)

CME Accredited • Trainee Travel Awards Available