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 (0.1-100ml). PISTONS NEVER REQUIRE LUBRICATION. THE BREATH RATE IS ADJUSTABLE 6-200 BPM AS IS THE INSPIRATION/EXPIRATION RATIO 4:1 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 @ 40 BPM TO 20ml/min @ 300 BPM). DATA IS DISPLAYED BOTH NUMERICALLY AND GRAPHICALLY ON THE FRONT PANEL.

CARDIAC OUTPUT COMPUTER: MEASURES CARDIAC OUTPUT BY THERMODYNAMIC METHOD. THE SYSTEM ALSO MEASURES BLOOD PRESSURE & EKG, SUITABLE FOR ANIMALS RANGING IN SIZE FROM MICE TO HORSES.

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Victor J. Thannickal, Barry L. Fanburg

Segmental regulation of pulmonary vascular permeability by store-operated Ca2+ entry
Paul M. Chetham, Pavel Babál, James P. Bridges, Timothy M. Moore, Troy Stevens

Proteomics: current techniques and potential applications to lung disease
Jan Hirsch, Kirk C. Hansen, Alma L. Burlingame, Michael A. Matthay

Effects of fluoxetine, phentermine, and venlafaxine on pulmonary arterial pressure and electrophysiology
Helen L. Reeve, Daniel P. Nelson, Stephen L. Archer, E. Kenneth Weir

Mediators and modulators of pulmonary arterial hypertension
Sami I. Said

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for the Editorship of

Physiological Genomics

Nominations are invited for the Editorship of the Physiological Genomics to succeed A. W. Cowley, Jr., who will complete his term as Editor on June 30, 2009. The Publications Committee plans to interview candidates in the Fall of 2008.

Applications should be received before August 15, 2008.

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

Kim E. Barrett, Ph.D.
9650 Rockville Pike
Bethesda, MD 20814-3991

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CALL FOR NOMINATIONS

for the Editorship of

American Journal of Physiology-Gastrointestinal and Liver Physiology

Nominations are invited for the Editorship of the American Journal of Physiology-Gastrointestinal and Liver Physiology to succeed M. Montrose, who will complete his term as Editor on June 30, 2009. The Publications Committee plans to interview candidates in the Fall of 2008.

Applications should be received before August 15, 2008.

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

Kim E. Barrett, Ph.D.
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Excerpts From The Book

CHAPTER 1: Preamble—general considerations

What’s a preamble? A bit like priming the pump, a pre-systolic accentuation in mitral stenosis perhaps. Fat Albert’s rocket-assisted takeoff (footnote: Fat Albert is the C-130 transport that supports the Blue Angels, and if you don’t know what a C-130 is or who the Blue Angels are, may your Dean have pity on your soul).

Point 1: Wine appreciation should be done in parallel, not in series.

Point 2: No matter what type of wine, no matter how good or bad it actually is, no matter how experienced a taster you may be (or think you may be), you must remember this (not the song): There are TWO parts to the appreciation of wines.

Point 3. Don’t be seduced by the label, or the price or (especially) the reputation of a particular wine.

Point 4. A closely parallel warning: Don’t be influenced by your fellow tasters, not even by me.

CHAPTER 2: The Process of Evaluation of a Wine—step by step

PART 1: Do you like the damn stuff or not?

PART 2: Why you like or hate the damn stuff. Science rules, sort of.

CHAPTER 3: The Most Common Grape and Wine Varieties—their features as wines

There are many styles of grapegrowing and winemaking that provide a wide array of attributes in the finished wine, even wines from the same grapes in adjacent regions. What follows describes the classical, expected, stereotypical features of each, especially as they apply to U.S. wines.

CHAPTER 4: The Conduct of a Wine-Tasting Session—how to run it

Remember, you do not need to know anything at all about wine or tasting to succeed here. All you need is courage, bravado, and a proficiency in public speaking (which you have all gotten anyway from years of teaching graduate and medical students).

Remember—the more forcefully you speak, the more enobblable you use, the more your reputation grows even if you are flat out wrong in everything you say. It’s not what you say, it’s how you say it.
IN NEXT ISSUE

LUNG FLUID BALANCE
Physiological determinants of the pulmonary filtration coefficient (Perspectives)
James C. Parker and Mary I. Townsley

CYSTIC FIBROSIS
From the farm to the lab: the pig as the new model of cystic fibrosis lung disease
(Editorial Focus)
A. S. Verkman

The porcine lung as a potential model for cystic fibrosis (Review)
G. McLennan, D. K. Meyerholz, E. Namati, L. S. Ostedgaard, R. S. Prather,
J. R. Sabater, D. A. Stoltz, J. Zabner, and M. J. Welsh

Chemical conjugation of ΔF508-CFTR corrector deoxyspergualin to transporter human serum albumin enhances its ability to rescue Cl− channel functions
Caroline Norez, Matteo Pasetto, Maria Cristina Dechecchi, Erika Barison,
Cristina Anselmi, Anna Tamanini, Federica Quiri, Luigi Cattel, Paolo Rizzotti,
Franco Dosto, Gianlo Cabrini, and Marco Colombatti

SURFACTANT PROTEINS
TTF-1 response element is critical for temporal and spatial regulation and necessary for hormonal regulation of human surfactant protein-A2 promoter activity
Dongyuan Liu, Ming Yi, Margaret Smith, and Carole R. Mendelson

PULMONARY HYPERTENSION
Lung-selective gene responses to alveolar hypoxia: potential role for the bone morphogenetic antagonist gremlin in pulmonary hypertension
Christine M. Costello, Katherine Howell, Edwina Cahill, Jean McBryan,
Melanie Konigshoff, Oliver Eickelberg, Sean Gaine, Finian Martin, and Paul McLoughlin

STEM CELLS
Retention of human bone marrow-derived cells in murine lungs following bleomycin-induced lung injury
Janice M. Liebler, Carolyn Lutzko, Agnes Banfalvi, Dinithi Senadheera,
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EPITHELIAL CELLS
Cytosolic phospholipase A2α activation induced by S1P is mediated by the S1P3 receptor in lung epithelial cells
Li-Yuan Chen, Grzegorz Woszczek, Sahradaya Nagineni, Carolea Logun, and James H. Shelhamer

BIOLOGY OF LUNG INJURY AND INFLAMMATION
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ACUTE LUNG INJURY
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Ramaswamy Ramachandran, Dolly Mehta, Stephen M. Vogel, Muhammad K. Mirza,
Panos Kouklis, and Asrar B. Malik

(Continued)