

2004 APS Undergraduate Poster Session
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Alewaters, Roel

University of Antwerp

Na⁺/K⁺-ATPase α 3 Subunit is Expressed in Pulmonary Smooth Muscle Receptors and Neuroepithelial Bodies

Andrick, Jonathan J.

University of Michigan

Uniaxial Stretch Increases ERK Phosphorylation And Collagen Synthesis in Engineered Tendons

Arnolds, David

Joslin Diabetes Center

Exercise Regulates Akt, GSK3, and β -Catenin Signaling in Hhuman Skeletal Muscle

Assis, Poincyane

Barry University

Molecular Expression and Electrochemical Analysis of Phenylalanine-Tyrosine Transporter from *Anopheles gambiae* Larvae

Attaya, Mohammed N.

Texas Tech University Health Sciences Center

Endosomes/Lysosomes (E/L) Insert V-ATPase into the Plasma Membrane for Cell Migration

Blanton, Ahmad Rashad

Texas Southern University

Contribution of Cytochrome P450-Arachidonate Metabolites to Cyclosporin-induced Renal Dysfunction and Hypertension

Buelow, Matthew W.

Medical College of Wisconsin

High Salt Diet Impairs Arteriolar Dilation via Increased Oxidative Stress in the Hamster Cheek pouch

Bunney, Donald

Towson University

Combinatorial Effects of Deterrent Phytochemicals on the Feeding Behavior of Gypsy Moth Larvae, *Lymantria dispar* (L.)

Campos, Isabel

Wright State University School of Medicine

Screening of PLD2 expressed exons in human neutrophils by RT-PCR

Cerqueira, Carla S.

New Jersey Medical School, UMDNJ

Effect of Epidermal Growth Factor on Induction of Fructose Transport in Neonatal Rat Intestine

Chisty, Alia

Yale University School of Medicine

Stability of Arteriolar Network Architecture with Aging in Mouse Skeletal Muscle

Clace, Denyse

Acadia University

One Year of Resistance Exercise Training Improves Neutrophil Activity in Older Individuals

Costa, Bruno Meneghiso

Faculdade de Medicina do ABC

Involvement of Central Nitric Oxide in the Cardiovascular Responses Induced by Moxonidine in Awake Rats

Costanzo, Margaret C.

University of Texas at San Antonio

Calculating the Percent Loading of the Fluorescent Dye BCECF in the In Vitro Brainstem of Larval *Rana catesbeiana*

Deegan, Erin M.

College of William and Mary

The Effects of Calcitonin Gene-related Peptide on the Firing Rates of Thermosensitive and Temperature Insensitive Neurons in the Anterior Hypothalamus of the Rat

Deller, Miranda de Jong

Wilfrid Laurier University

Estrogen and Gender do not Influence Post-ischemia Leukocyte Infiltration in Red and Mixed Skeletal Muscle

Dentel, John N.

Michigan State University

Mechanical Strain is not the Mechanism for p38 Mitogen-activated Protein Kinase (MAPK) Phosphorylation in Fast Skeletal Muscle

Diniz, Gabriela Placoná

Institute of Biomedical Sciences - Universidade de São Paulo

Influence of Cardiac Renin Angiotensin System in the Myocardium Hypertrophy Induced by Thyroid Hormone

DiPenta, Jennifer

Acadia University

Participation in Long-term Moderate Intensity Resistance Training Increases Natural Killer Cell Activity and Improves Lipid Profile in Older Adults

Dube, Nathalie

University of New England, College of Osteopathic Medicine
PKC β II Inhibition Improves Mechanical Dysfunction in Cultured Diabetic Cardiomyocytes

Fontanez-Nuin, Darah Esther

Pontifical Catholic University of Puerto Rico
Presynaptic A1 Adenosine Receptors Inhibit Thalamic Stimulation of Inhibitory Neurons in the Mouse Somatosensory Cortex

Fukuda, Shinichi

University of Tsukuba
The Significance of Stretch Activated Ion Channels on Coronary Vascular Resistance Under Hypoxia

Gaynor, Anne M.

Brigham & Women's Hospital
Polyglycolic Acid-Induced Peritonitis Requires C5 Activation

Gonzalez, Pablo

Trinity University
Tight Junction Protein Expression of Occludin and Claudin-3 in Response to Interleukin-1 β in MDCK Cells

Haffner, Thomas D.

University of Waterloo
Effect of a High-fat Meal on Endothelial Vasomotor Function in Young Females

Horváth, Béla

Semmelweis University Medical School
Interaction Between the Heme Oxygenase (HO) and NO Synthase Pathways in the Regulation of the Resting CBF

Ishiguro, Miriam

Semmelweis University Medical School
The Cannabinoid Receptor Antagonist AM-251 Enhances the Cerebrocortical Hyperemic Response to Hypoxia/Hypercapnia

Joehl, Jill S.

Indiana University School of Medicine
Cyclooxygenase Isoform Expression in Fasted and Fed Mouse Stomach

Khurram, Maria

California State University Northridge
Carbohydrate Involvement in Sea Urchin Cellular Interactions

Kjolby, Mads Just

University of Southern Denmark

Measures of Sodium Homeostasis at Different Sodium Intakes in Conscious Dogs

Martin, Lucy Kay

Earlham College

Apoptotic Cell Death in Rats Treated with Niacin Prior to Coronary Artery Narrowing

McNeil, Jon

Oregon Health & Science University

Circulating Renin/AngII Components in Neonatal and Adult Microswine Offspring of Maternal Protein Restriction

Murphy, Ryan

Baylor College of Medicine

The Effect of Mechanical Stretch on Proliferation and Differentiation of C2C12 Cells

Olson, Andrew P.J.

Luther College

Cytochrome P-450 4A Overexpression Increases Peripheral Resistance and Arterial Pressure In Spontaneously Hypertensive Rats

Pamla, Pumla Mthikazi

Earlham College

Chronic Coronary Artery Narrowing and Niacin: Myocardial Remodeling, Infarction and Survival

Patel, Shnehal

University of Pittsburgh

Central cFos Activation in Rats After Systemic Administration of an Anxiogenic Dose of Cholecystokinin Tetrapeptide (CCK-4)

Peiffer, Aubrey K.

Colorado State University

Seasonal Changes in Akt/PKB Phosphorylation and Fat Cell Size in Marmots

Pierce, Stephanie

Central Michigan University

ATP-Sensitive Potassium Channels Contribute to Hypoxic Depression of Inspiratory-Related Bursting in the Pre-Bötzinger Complex

Quam, Cole

University of Utah

Effects of Cyclic Stretch and Hyperglycemia on Endothelial Wound Closure

Rattan, Amit S.

Wright State University

Intracellular pH and Firing Rate Response to Hypercapnic Acidosis in Medullary Brain Slices From Rats Chronically Adapted to Hypercapnic Conditions

Schatz, Andrew J.

Luther College

Pulmonary Vascular Reactivity in the Rat is Altered by One But Not Two Weeks of Voluntary Exercise

Siebert, Aubrey

Allegheny College

Electrophysiological Characterization of Gustatory Receptor Cells in the Maxillary Styloconic Sensilla of the Gypsy Moth, *Lymantria dispar* (L.)

Smark, Charles T

Michigan State University

Role of Caveolae in Endothelin-1 (ET-1)-induced Contraction in Arteries and Veins

Spiegel, Evan Tyler

SUNY Stony Brook

Time Varying Spectral Analysis of Diaphragm Electromyogram Activity During Increased Respiratory Drive in Anesthetized C57BL/6 Mice In Vivo

Strader, Lindsay Amanda

Kansas State University

Mifepristone Upregulates Basolateral NBC1 Activity in Vas Deferens Epithelial Cell Monolayers

Thibodeaux, Lindy

James Madison University

The Effects of Developmental Temperature on Morphology and Locomotor Performance in the Salamander, *Ambystoma maculatum*

Toussaint, Gesulla

Barry University

Activin/Inhibin in *Fundulus heteroclitus* Ovary: Cloning of the Subunits and Effects on Oocyte Maturation

Trinh, Linda

Baylor College of Medicine

Increased Muscle Shortening and Maintenance of Curvature of the Midcostal Muscle of the Diaphragm During Large Tidal Breathing in Supine Dogs

Van Zutphen, Casey

The University of Arizona

Influence of Tongue Muscle Activation on Velopharyngeal Volume and Compliance in Urethane Anesthetized Rats

Watanabe, Reina

University of Arizona

Increased Platelet-neutrophil Conjugate Formation Demonstrates That Diabetic Blood is More Reactive to the Effects of Surgery

Whitman, Elizabeth M.

Johns Hopkins Medical Institutions

Endothelin-1 (ET-1) Mediates Hypoxic Inhibition of Voltage-gated K^+ (K_V) Channel Expression and Elevated Resting Intracellular Ca^{2+} ($[Ca^{2+}]_i$) in Rat Pulmonary Arterial Smooth Muscle Cells (PASMCs)

Wilkinson, Katherine A

University of Pittsburgh

Responses of Feline Medial Medullary Reticular Formation Neurons With Projections to the C5-C6 Ventral Horn to Vestibular Stimulation

Wilson, Ryan R

University of Alaska Fairbanks

Seasonal Changes in Supercooling Points of Blood Plasma From the Arctic Ground Squirrel (*Spermophilus parryi*): Evidence of Masking of Ice Nucleators

Wipf, Joni Ann

University of South Dakota

The Role of Carbonic Anhydrase in the Control of Breathing in 2 Strains of Mice

Zhu, Julia

Wellesley College

Cardioprotective Effects of K_{ATP} Channel Activation During Hypoxia in Goldfish