

The Twenty-Sixth Annual Daniel T. Watts Research Poster Symposium

The Twenty-Sixth Annual

Daniel T. Watts

Research Poster Symposium

A Scientific Forum for the VCU Community

October 27-29, 2009

Program – Titles and Authors

**Hermes A. Kontos
Medical Sciences Building
Virginia Commonwealth University**

Session I - Tuesday, October 27, 2009

Presentations: A-01 to A-37

Session II – Wednesday, October 28, 2009

Presentations: B-01 to B-36

Session III - Thursday, October 29, 2009

Presentations: C-01 to C-39

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Session I

Tuesday, October 27

A-01 Wilm's Tumor-1 Expression In Glioblastoma Cells Fosters Cell Survival: Identifying Underlying Mechanisms.

Archana Chidambaram, Nitya Moothathu, Catherine Dumur, Helen Fillmore and William C. Broaddus
Anatomy and Neurobiology

A-02 In-Vitro Binding Of 5-Hydroxymethylfurfural (5-HMF) To Human Hemoglobin (Hb) And Serum Albumin (HSA)

Taghrid Obied, M.S., Jürgen Venitz, MD, Ph.D.
Pharmaceutics

A-03 Metabolism Of 5-Hydroxymethylfurfural (5-Hmf) In Human Hepatic Cytosol By Aldehyde Dehydrogenase (Aldh) And Alcohol Dehydrogenase (Adh)

Taghrid Obied, M.S., Jürgen Venitz, MD, Ph.D.
Pharmaceutics

A-04 5-Hydroxymethylfurfural (5-Hmf) Metabolism In Hepatic Cytosol From Mice, Rats, Dogs, And Humans

Taghrid Obied, M.S., Jürgen Venitz, MD, Ph.D.
Pharmaceutics

A-05 Focal Adhesion Kinase (FAK) Regulates Oligodendrocyte Process Dynamics And Remodeling

A.D. Forrest, B. Fuss
Anatomy and Neurobiology

A-06 Tumorigenicity And Angiogenic Protein Profiles Of Glioblastoma Cells With Altered MMP-1 Expression Levels

Nicholas A. Pullen (1), Monika Anand (2), Helen L. Fillmore
The Harold F. Young Neurosurgical Center and (1) Department of Anatomy & Neurobiology, (2) Department of Biochemistry & Molecular Biology

A-07 Glioblastoma Cell Motility Is Mediated Through A Nitric Oxide-MMP-1 Axis

Nicholas A. Pullen (1) and Helen L. Fillmore, Ph.D.
The Harold F. Young Neurosurgical Center and (1) Department of Anatomy & Neurobiology

A-08 HIV Protease Inhibitors Activate The ER Stress Response And Disrupt The Lipid Metabolism In 3T3-L1 Adipocytes.

Beth S Pecora, Lixin Sun, Xudong Wu, Weibin Zha, Emily Gurley, Elaine Studer, Phillip B Hylemon, William M. Pandak, Luyong Zhang, Guangji Wang, Huiping Zhou.
Microbiology and Immunology

A-09 Second Hand Smoke Induced Molecular Effects In Pup Rat Brain

Brian F. Fuller and Andrew K. Ottens
Anatomy and Neurobiology

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A-10 Rescue Of Visual Cortex Plasticity Deficits In A Mouse Model Of Fetal Alcohol Syndrome Using A Phosphodiesterase Type 1 Inhibitor

Crystal Lantz

Anatomy and Neurobiology

A-11 Effects Of Stimulating Innate Immune Receptors In Ovarian Cancer Cell Lines

Danielle N. Schramm, Sandrine Lépine, Jessica K. Bell

Biochemistry and Molecular Biology

A-12 The Role Of Threonine 260 In Mycobacterium Tuberculosis Lanosterol 14 α -Demethylase Catalysis

Gareth K. Jennings¹, Anuja Modi¹, James Turner² and John C Hackett¹

Medicinal Chemistry

A-13 Biochemical And Structural Characterization Of Innate Immunity Kinase Complex Proteins

R. Jason Call, R. Ghirlando, J.K. Bell

Biochemistry and Molecular Biology

A-14 The Role Of Stat1 In Regulation Of Mitochondrial Gene Expression

Jennifer D Sisler, Magdalena Szelag, Dr. Andrew Larner

Biochemistry and Molecular Biology

A-15 Investigating Genetic And Environmental Contributions To The Relationship Between Church Attendance And Alcohol Dependence

Jia Yan, Fazil Aliev, Kenneth S. Kendler, Steven H. Aggen, Laura Bierut, and Danielle M. Dick, with SAGE collaborators

Human and Molecular Genetics

A-16 A Calcineurin-Dependent Loss And An Overgrowth Of Dendritic Spines Following Lateral Brain Injury In Rat

John N. Campbell⁽¹⁾, Brian Low⁽²⁾, David Register⁽³⁾, & Severn B. Churn⁽¹⁻⁴⁾

Anatomy & Neurobiology⁽¹⁾, Physiology & Biophysics⁽²⁾, Neurology⁽³⁾, and Pharmacology & Toxicology⁽⁴⁾

A-17 Production And Characterization Of Silencer Of Ikk-Epsilon

Jonathan L. Forbes, R. Jason Call & Dr. Jessica Bell

Biochemistry and Molecular Biology

A-18 Potential Of Mean Force Reconstruction For High-Selectivity Substrate Binding At Human Aromatase.

Justin E. Elenewski and John C Hackett

Medicinal Chemistry

A-19 Theoretical Studies Of Lanosterol 14 α -Demethylase Catalysis: Mechanistic Insight Into P450-Catalyzed C-C Bond Cleavage

Kakali Sen and John C Hackett

Medicinal Chemistry

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A-20 Autotaxin (Atx) Regulates The Appearance Of Mbp-Positive Oligodendrocytes In The Hindbrain Of The Zebrafish

Larra M. Yuelling¹, Kevin R. Lynch³, James A. Lister², Babette Fuss¹ ¹Department of Anatomy and Neurobiology and ²Human and Molecular Genetics, and ³Department of Pharmacology, University of Virginia Medical Center
Anatomy and Neurobiology

A-21 DYNAMICS OF SUBSTRATE INTERACTIONS IN Trna (M1G37) METHYLTRANSFERASE; IMPLICATIONS FOR DRUG DISCOVERY

Maria Palesis, John Hackett, and Walter M. Holmes
Pharmacology and Toxicology

A-22 Is Tyk2 A Critical Regulator Of Obesity?

Derecka Marta, Gornicka A, Larner A
Biochemistry and Molecular Biology

A-23 Synthesis, Screening And Cocrystalization Of Adenosine-Based Inhibitors For Ermc' And Ksga

Mr. Matthew R. Baker, Dr. Keith C. Ellis, Dr. Fiek N. Musayev, and Dr. Jason P. Rife
Medicinal Chemistry

A-24 Epidermal Growth Factor Mediated Up-Regulation Of Mmp-1 In Glioma

Monika Anand(1) and Helen L Fillmore (2)
Biochemistry and Molecular Biology

A-25 Investigation Of Various Endogenous Blood Plasma Phospholipids, Glycerides And Cholesterols That Contribute To Matrix Effects In Lc/Ms/Ms

Omnia A. Ismaiel, Tianyi Zhang, Rand G. Jenkins, H. Thomas Karnes
Pharmaceutics

A-26 Expression Of AMP-Activated Kinase (AMP Kinase) And Inactivation Of Myosin Light Chain (MLC) Kinase By AMP Kinase Determines The Magnitude Of Smooth Muscle Contraction In Different Regions Of The Stomach.

O. Al-Shboul, S. Mahavadi, C. Strane and K.S. Murthy
Physiology and Biophysics

A-27 Acute Ethanol-Responsive Gene Expression In Fyn Kinase Knockout Mouse Prefrontal Cortex And Nucleus Accumbens

Sean P. Farris and Michael F. Miles
Pharmacology and Toxicology

A-28 Adam10 Transgenic Mice Serve As A Novel Model For Studying The Role Of MdsCs In Tumor Metastasis

Sheinei Saleem, David Gibb, Daniel Conrad, Laura Graham, Harry Bear
Microbiology and Immunology

A-29 Expression Of Matrix Metalloproteinase-2 After Olfactory Nerve Transection

Bakos, S.R. Costanzo, R.M.
Physiology and Biophysics

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A-30 Cotranslational Folding And Oligomerization Of HSV Gb In The Endoplasmic Reticulum

S.J. Dollery, M.G. Delboy, A.V. Nicola
Microbiology and Immunology

A-31 Expression Pattern Of High Molecular Weight- Melanoma Associated Antigen (HMW-MAA) In Breast Cancer Stem Cells

Stuti Agarwal, Maciej Kmiecik, Soldano Ferrone, Masoud H. Manjili
Microbiology and Immunology

A-32 Substrate Specificity Of Arm/Rmt Methyltransferases

Tamara Zarubica, H. Tonie Wright, Jason P. Rife
Biochemistry and Molecular Biology

A-33 BIOLUMINESCENT OSTEOCLASTS: CHARACTERIZATION OF Mtrap-LUCIFERASE TRANSGENIC MICE IN VIVO AND IN VITRO

Tamer M. Hadi, Mark A. Subler, Greg E. Campbell, Christina Boykin, Jolene J. Windle
Human and Molecular Genetics

A-34 In Vitro Manipulation Of Adult Human Neural Stem/Neural Progenitor Cells Isolated From Neurosurgical Resection For Use In Cell Replacement Therapy Following Traumatic Brain Injury.

Wendy Reid, Martin Graf, Kathryn Holloway, Helen Fillmore, Dong Sun.
Neurosurgery

A-35 Tissue Specific Microrna Target Prediction In Humans

William T. Budd Zendra Zehner Nihar Sheth
Center for the Study of Biological Complexity

A-36 Opposing Roles For Lyn And Fyn Kinases In Mast Cell, Basophil And Macrophage Igg Receptor Signaling

Yves T. Falanga and John J. Ryan
Biology (Integrative Life Sciences)

A-37 Design Synthesis And Interaction Studies Of Dual, Direct, Non-Saccharide, Allosteric Modulators Of Factor Xa And Thrombin

Preetpal Singh Sidhu*, Qibing Zhou, and Umesh R. Desai.
Medicinal Chemistry

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Session II

Wednesday, October 28

B-01 KLF2 Is Required For Normal Heart Development In Mice

Aditi Chiplunkar, Tina Lung, Dr. Jack Haar, Dr. Joyce Lloyd

Human and Molecular Genetics

B-02 Effects Of Hemoglobin-Based Oxygen Carriers (Hbocs) On Nitric Oxide (NO) Levels In The Spinotrapezius Muscle And Mesentery Of The Rat

Andrew T. Yannaccone, Helena Carvalho and Roland N. Pittman

Physiology and Biophysics

B-03 The Anaplasma Phagocytophilum-Occupied Vacuole Selectively Recruits Rab Gtpases

Bernice Huang, Marci A. Scidmore and Jason A. Carlyon

Microbiology and Immunology

B-04 Regulation Of Pre-Mrna Splicing By Group VIA Phospholipase A2 (Ipla2)

Bhargavi Emami, Xiaoyong Lei, Sasanka Ramanadham, and Suzanne E. Barbour

Biochemistry and Molecular Biology

B-05 Microcirculatory Effects Of Hemorrhage And Resuscitation On Tissue Oxygenation Using A Hemoglobin-Based Oxygen Carrier

Bjorn K Song, Michael D Connery I, P. Moon-Massat, Aleksander S. Golub, Roland N Pittman.

Physiology and Biophysics

B-06 ADAM10 Critically Regulates B Cell Development By Activating Notch2 Signaling

David R. Gibb, Mohey El Shikh, Dae-Joong Kang, Warren J. Rowe, Rania El Sayed, Joanna

Cichy, Hideo Yagita, John G. Tew, Peter J. Dempsey*, Howard C. Crawford*, Daniel H.

Conrad*

Microbiology and Immunology

B-07 Opioid Tapering In Children: A Critical Review Of The Literature

Deborah Fisher

Pediatric Nursing

B-08 Bacterial Cpgs Synergize With Il-15 To Enhance Cd8+ T Cell Function

Derek Hambright, Dustin Cobb, Siqi Guo, and Ronald B. Smeltz

Microbiology and Immunology

B-09 T-Bet Dependent Regulation Of Cd4 Th17 Cells During Trypanosoma Cruzi Infection

Drew Cobb, Derek Hambright, and Ronald B. Smeltz

Microbiology and Immunology

B-10 Computational Studies: Binding Mode Of Alpha2A-Adrenoceptors

Genevieve S. Alley, Philip D. Mosier, Malgorzata Dukat

Medicinal Chemistry

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B-11 Evidence For Genes On Chromosome 2 Contributing To A Variety Of Psychiatric Outcomes

Jacquelyn Meyers, Danielle M. Dick, Fazil Aliev, John Nurnberger Jr., John Kramer, Sam Kuperman, Bernice Porjesz, Jay Tischfield, Howard Edenberg, Tatiana Foroud, Marc Schuckit, Alison Goate, Victor Hesselbrock & Laura Bierut
Human and Molecular Genetics

B-12 Adjuvant Potential Of Double Stranded RNA

James D. Marion and Jessica K. Bell
Biochemistry and Molecular Biology

B-13 CB1 Agonist-Like CNS Effects Following Prolonged Inhibition Of Monoacylglycerol Lipase (MAGL) Undergo Tolerance

Joel E. Schlosburg, Divya Ramesh, James J. Burston, Steven G. Kinsey, Lamont Booker, Rehab A. Abdullah, Jonathan Z. Long, Dana E. Selley, Benjamin F. Cravatt and Aron H. Lichtman
Pharmacology and Toxicology

B-14 Faah Inhibition Reverses Lipopolysaccharide-Induced Mechanical Allodynia

Lamont Booker¹, Steven G. Kinsey¹, Kay Ahn², Benjamin F. Cravatt³, Aron H. Lichtman¹
¹Department of Pharmacology and Toxicology, ²Pfizer Global Research and Development, Groton, CT, USA ³The Skaggs Institute, The Scripps Research Institute, La Jolla, CA, USA

B-15 Adenovirus Infection Alters Metabolism In Adipose And Hepatic Tissues

Marianna Sukholutsky, W. Palmer Wilkins III, and Suzanne E. Barbour
Biochemistry and Molecular Biology

B-16 Properties Of The Icp0 Tegument Protein Of Hsv-1

Mark G. Delboy, Carlos R. Siekavizza-Robles, and Anthony V. Nicola
Microbiology and Immunology

B-17 Inside-Out Signaling Of Estradiol-Mediated S1p Export From Breast Cancer Cells

Masayuki Nagahashi^(1,2), Roger H. Kim⁽¹⁾, Jeremy C. Allegood⁽²⁾, Poulami Mitra⁽²⁾, Subramaniam Ramachandran^(1,2), Kuzhuvilil B. Harikumar⁽²⁾, Nitai C. Hait⁽²⁾, Sheldon Milstien⁽²⁾, Sarah Spiegel⁽²⁾ and Kazuaki Takabe^(1,2)
(1) Division of Surgical Oncology, (2) Department of Biochemistry and Molecular Biology and the Massey Cancer Center

B-18 Effect Of Serum On Staphylococcus Aureus Biofilm Formation

Nabil Abraham, Kimberly Jefferson
Microbiology and Immunology

B-19 The Application Of Luminescent In Vivo Imaging Using 4t1-Luc2 Cells To Determine The Best Model For Breast Cancer Progression And Metastasis

Omar Rashid¹, Masayuki Nagahashi^{1,2}, Subramaniam Ramachandran^{1,2}, Sheldon Milstien², Sarah Spiegel², and Kazuaki Takabe^{1,2}
¹Division of Surgical Oncology, ²Department of Biochemistry and Molecular Biology and the Massey Cancer Center
Surgical Oncology

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B-20 Quantitative Structure - Pharmacokinetic Relationships (Qspkr) Of Beta-Adrenergic Receptor Ligands (Barl) In Humans

Prajakta Badri, Ph.D. Candidate, Jürgen Venitz, MD, Ph.D.
Pharmaceutics

B-21 In Vitro Prediction Of Regional Drug Deposition From Dry Powder Inhalers

Renish R Delvadial, Peter R Byron¹, P. Worth Longest², and Michael Hindle¹
Pharmaceutics

B-22 On The Association Of Body Mass Index And Depression In A Population Based Sample Of Twins.

Roseann E. Peterson, B.A., Hermine H. Maes, Ph.D., Lindon J. Eaves, Ph.D., D.Sc.
Human and Molecular Genetics

B-23 Fullerene C70 Derivatives Inhibit Mast Cell Mediated Airway Inflammation And Eosinophilia Associated With Chronic Asthma

Sarah K. Norton*, Anthony Dellinger#, Robert Lenk#, Zhiguo Zhou#, Daniel H. Conrad*, Christopher L. Kepley# *Department of Microbiology and Immunology #Luna Innovations Incorporated, Danville, VA 24541
Microbiology and Immunology

B-24 Molecular Basis Of Reduced Pyridoxine 5'-Phosphate Oxidase Catalytic Activity In Neonatal Epileptic Encephalopathy Disorder

Sayali S. Karve, Faik N. Musayev, Mohini S. Ghatge, Martin K. Safo
Medicinal Chemistry

B-25 NOVEL SUBSTRATES FOR THE HUMAN SEROTONIN TRANSPORTER: SEARCH FOR A NEW CLASS OF ANTIDEPRESSANTS BASED ON THE CHANNEL PROPERTIES OF Hsert.

Stefania Averaimo, Hideki Iwamoto, Ernesto Solis, Lynette Daws and Louis J DeFelice
Physiology and Biophysics

B-26 Scribble As A Possible MAP Kinase Binding Partner

Steven Christofakis, Hiroshi Miyazaki, M.D., Ph.D.
Philips Institute, School of Dentistry

B-27 LPA-Induced Gastric Cancer Cell Proliferation Is Mediated By Sphingosine Kinase-1.

Subramaniam Ramachandran^{1,2}, Dai Shida², Masayuki Nagahashi^{1,2}, Sheldon Milstien², Sarah Spiegel² and Kazuaki Takabe^{1,2}
Surgery

B-28 Restoration Of Chemo/Radioresistance And Double-Strand Break Repair Proficiency By Wild-Type But Not Endonuclease-Deficient Artemis

Susovan Mohapatra, Lawrence F. Povirk, Imran Khan, Misako Kawahara-Stillion and Steven M. Yannone
Pharmacology and Toxicology

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B-29 Investigation Of A Solvent/Anti-Solvent Crystallization Process For Albuterol Sulfate

Swati Agrawal, Michael Hindle
Pharmaceutics

B-30 Association Of Chromosome 20 Loci With Categorical Diagnoses And Clinical Dimensions Of Schizophrenia In The Irish Study Of High Density Schizophrenia Families

Bigdeli TB et al
Human and Molecular Genetics

B-31 Tie1-Tie2 Interactions Mediate Functional Differences Between Angiopoietin Ligands

Tom C.M. Seegar, Becca Eller, Dorothea Tzvetkova-Robev, Momchil V. Kolev, Scott C. Henderson, Dimitar B. Nikolov, and William A. Barton
Biochemistry and Molecular Biology

B-32 Elucidating The Sources Of Enhanced Oxygen Consumption During Early Reperfusion Following Skeletal Muscle Ischemia In The Rat Spinotrapezius Muscle

William Nugent, Aleksander Golub, and Roland Pittman
Physiology and Biophysics

B-33 Roles Of Krüppel Like Factors Klf1, Klf2, And Klf4 In Embryonic Beta-Globin Gene Expression

Yousef Alhashem, Divya Vinjamur, Gabriel Eades, Joyce Lloyd
Human and Molecular Genetics

B-34 Single Nucleotide Polymorphism In The Pdxk Gene Coding For Pyridoxal Kinase: Studying Its Effect On The Protein Structure And Its Possible Implications In Human Health

Jigar V. Desai, Faik Musayev, Mohini Ghatge, Martin K. Safo
Medicinal Chemistry

B-35 Crystal Structure Of E. Coli L-Threonine Aldolase (Eta): Evidentiary Support For Mechanism Of Reactions Catalyzed By The (E TA) And Comparison With Other PLP-Dependent Enzymes

Soumya G. Remesh
Medicinal Chemistry

B-36 Camk-II Mediates Non-Canonical Wnt-Dependent Morphogenic Events During Zebrafish Gastrulation

Jamie McLeod, Sarah C. Rothschild, Ludmila Francescato, Alexandra Myers and Robert M. Tombes
Biology

The Twenty-Sixth Annual Daniel T. Watts Research Poster Symposium

Session III

Thursday, October 29

C-01 The Impact Of Lack Of Access To Health Care On Health Status

Allison A. Wellman

Epidemiology and Community Health

C-02 Analysis Of Microrna Data

Andre Williams, MS Kellie Archer, PhD

Biostatistics

C-03 Fabrication Of 3-D Nerve Guides Using Electrospinning For Nerve Reconstruction

Balendu Shekhar Jha, Raymond J. Colello and David G. Simpson

Anatomy and Neurobiology

C-04 Novel Cinnamic Acid-Based Dehydropolymers For Emphysema: Triple Inhibitors Of Elastase, Inflammation And Oxidation

B. Saluja¹, J. Thakkar², U.R. Desai², M. Sakagami¹

Pharmaceutics

C-05 Development Of A Second Generation, Canine Lyme Vaccine: Identification Of The Predominant Ospc Types Found In Canine Lyme Borreliosis

DeLacy V. LeBlanc, Christopher G. Earnhart, and Richard T. Marconi

Microbiology and Immunology

C-06 Acute Elevation Of Endocannabinoids Attenuates The Precipitated Opioid Withdrawal Syndrome

Divya Ramesh¹, Scott T. O'Neal¹, Jonathan Z. Long², Benjamin F. Cravatt² and Aron H.

Lichtman¹ ¹ Department of Pharmacology and Toxicology, Virginia Commonwealth University, Richmond, VA 23298 ²The Skaggs Institute for Chemical Biology and Department of Chemical Physiology, The Scripps Research Institute, La Jolla, California 92037

Pharmacology and Toxicology

C-07 The Absence Of Synaptically Evoked Plateau Potentials In DlgN Relay Cells Leads To A Failure In Retinogeniculate Refinement.

Dilger, E.K., Morhardt, D. R., Shin, H. S. and Guido, W

Anatomy and Neurobiology

C-08 FUNCTIONAL EFFECTS OF FLUORESCENT Hsert LIGANDS VALIDATED BY HOMOLOGY-BASED DOCKING STUDIES

Ernesto Solís, Jr., Igor Zdravkovic, Ian D. Tomlinson, Sergei Y. Noskov, and Louis J. De Felice

Physiology and Biophysics

C-09 Snon Regulates Transcriptional Activation Or Repression Of TGF-Beta Signaling By Preventing Recruitment Of CBP And HDAC1 In Esophageal Cancer Cells

Eugene Y. Kim, Anna V. Miller, Amy C. Ladd, Catherine I. Dumur, David C. Williams, and Deborah A. Leberman

Biochemistry and Molecular Biology

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C-10 Entry Of Herpes Simplex Virus Requires Cholesterol In The Virion Envelope And Plasma Membrane Of Host Cells

Frances M. Saccoccio and Anthony V. Nicola
Microbiology and Immunology

C-11 New Cellular Accumulation Pathway For Tri-Platinum Compounds Using Heparan Sulfate

Heveline Silva, John B. Mangrum, John J. Ryan and Nicholas P. Farrell
Chemistry

C-12 Anaplasma Phagocytophilum Infects Murine Mast Cells In Vitro

I. Nore Ojogun, Bernice Huang, Daniel Miller, Brian Barnstein, John J. Ryan, and Jason A. Carlyon
Microbiology and Immunology

C-13 Platelet Function Is Impaired Immediately Following Resuscitation From Cardiac Arrest In A Swine Model

Jessica Brueckner, Nathan White MD, Erika J. Martin MT, Donald Brophy PharmD, Kevin Ward MD, Robert Diegelmann PhD
Departments of Emergency Medicine, Pharmacy, and Biochemistry

C-14 Analysis Of The Diguanylate Cyclase Rrp1 And Its Role In Borrelia Burgdorferi Pathogenesis

Jessica L. Kostick, Elizabeth A. Rogers, & Richard T. Marconi
Microbiology and Immunology

C-15 Diffuse Axonal Injury Within The Optic Nerve Following Fluid Percussion Brain Injury: A New Approach For The Comprehensive Evaluation Of Diffuse Axonal Injury

Jiaqiong Wang John E. Greer Susan A. Walker John T. Povlishock
Anatomy and Neurobiology

C-16 Interaction And Function Of Sphingosine-1-Phosphate And Prohibitin-2 In Mitochondria

Graham M. Strub, Jie Liang, Melanie Paillard, Ludovic Gomez, Nitai C. Hait, Qun Chen, Edward J. Lesnefsky, Sheldon Milstien, Sarah Spiegel
Departments of Biochemistry and Molecular Biology and Medicine, Division of Cardiology

C-17 A Transgenic Approach To The Study Of The Consequences Of Diffuse Axonal Injury

Greer JE, McGinn MJ, Povlishock JT
Anatomy and Neurobiology

C-18 tgf-beta suppresses mast cell function in vivo and in vitro

Fernando Josephine and Ryan John
Biology

C-19 AN Organotypic Hippocampal Slice Culture Model Of Acquired Seizures

J.M. Ziobro, D.S. Carter, R.E. Blair, L.S. Deshpande, R.J. DeLorenzo
Neurology

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C-20 Identification Of A Novel Mitochondrial Isoform Of DNA Methyltransferase 1

Lisa Sale Shock, Prashant V. Thakkar, Erica J. Peterson, Shirley M. Taylor

Microbiology and Immunology

C-21 TISSUE Oxygenation During Experimental Arterial Gas Embolism Using Intravital Microscopy

Luciana Torres, PhD^{1,2}, Ivo Torres Filho, MD, PhD^{2,3} and Bruce Spiess, MD^{1,3}

Anesthesiology

C-22 Sphingosine-1-Phosphate Accelerates The Development Of Functionally Mature Chymase-Expressing Human Mast Cells

Price MM, Kapitonov D, Allegood J, Milstien S, Oskeritzian CA, and Spiegel S.

Biochemistry and Molecular Biology

C-23 Electrochemical Profiling Of The Ascorbic Acid Redox System During Cardiac Arrest

Melissa Rich, Nathan White, Maryanne Collinson, Kevin Ward

Emergency Medicine and Chemistry

C-24 The Impact Of Low Consumption Of Vegetables And Fruits On Incidence Of Overweight And Obesity In Adults

Dr. Monica R. Gaidhane

Epidemiology and Community Health

C-25 Zeta Potential Measurements For Contact-Antimicrobial Coatings

Murari L. Gupta*, Kennard Brunson*, Asima Chakravorty*, Julio C. Alvarez**, Fernando Luna-Vera**, ThuTrang T. Nguyen** and Kenneth J. Wynne*

Chemical and Life Science Engineering

C-26 Activated Neutrophils Enhance Vascular Reactivity To Angiotensin II Via RhoA Kinase Activation By Reactive Oxygen Species.

Nikita Mishra, MBBS Scott W. Walsh, PhD

Physiology and Biophysics

C-27 Sphingosine Kinase 2 And S1P In The Nucleus Regulate Histone Acetylation By Inhibition Of Histone Deacetylases

Nitai C. Hait, Jeremy Allegood, Michael Maceyka, Graham M. Strub, Kuzhuvilil B. Harikumar, Tomasz Kordula, Sheldon Milstien, and Sarah Spiegel

Biochemistry and Molecular Biology

C28 Adenovirus-5 Infection Induces Hepatic Lipid Synthesis And Hypertriglyceridemia In C57bl/6 Mice

W. Palmer Wilkins III, Rachael Griffiths, Jin-Woo Choi, Richard L. Atkinson, Philip B.

Hylemon, Gregorio Gil, and Suzanne E. Barbour

Biochemistry and Molecular Biology

C-29 Regulation Of Platelet-Activating Factor Acetylhydrolase By Oxidized Phospholipids

Rachael Griffiths, Minkyong Son, Muralikrishna Mukkamala, Norbert Leitinger and Suzanne E. Barbour

Biochemistry and Molecular Biology

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C-30 Morphologically Distinct Classes Of Relay Neurons Reside In Different Regions Of The Mouse Dorsal Lateral Geniculate Nucleus (Dlgn)

Rana N. Eldanaf, Thomas E. Krahe, Emily K. Dilger, Tania A. Seabrook, And W. Guido
Anatomy and Neurobiology

C-31 Prostate Cancer Screening: Addressing Racial and Ethnic Disparities

Sameer Arora
Epidemiology and Community Health

C-32 Regulation And Role Of YKL-40, A Novel Molecule, During Astrocyte Differentiation: Implications For Reactive Gliosis And Glioma Invasiveness

Sandeep K Singh, Katarzyna Wilczynska, Lauren Bryan, Catherine Dumur, and Tomasz Kordula
Biochemistry and Molecular Biology

C-33 Regulation Of Vascular Smooth Muscle Contraction

Silvina M. Alvarez, Ph.D., Amy S. Miner and Paul H. Ratz, Ph.D.
Pediatrics, Biochemistry and Molecular Biology

C-34 Delineation Of The Critical Region For Brachydactyly-Mental Retardation Syndrome By Array Comparative Hybridization: New Candidate Genes For Sleep Disturbance And Albright's Hereditary Osteodystrophy-Like Phenotypes

Stephen Williams, Santhosh Girirajan, Helga Toriello, Ellen Magenis, David Tegay, Eli Hatchwell, Norma Nowak, and Sarah Elsea
Human and Molecular Genetics

C-35 Intensity Exercise On Reducing Coronary Artery Disease Among Smokers

Susan Cha
Epidemiology and Community Health

C-36 Coordinated Innervation Of Retinogeniculate And Corticogeniculate Projections In The Dlgn Of The Mouse

T. A. Seabrook, T. E. Krahe, E. K. Dilger, D. R. Morhardt, W. Guido
Anatomy and Neurobiology

C-37 Cannabinoid Receptor Interacting Protein (Crip1a) Attenuates Constitutive Cb1 Receptor Signaling And Cb1 Downregulation

Tricia H. Smith, Maurice R. Elphick, Deborah L. Lewis, Ching-Kang Jason Chen, Dana E. Selley
Pharmacology and Toxicology

C-38 Specific Recruitment Of RNA Pol II By NFI-X3 Induces GFAP Expression In Glial Cells

Sandeep K Singh, Katarzyna Wilczynska, Adrian Grzybowski, Lauren Bryan, Tomasz Kordula
Biochemistry and Molecular Biology

C-39 Molecular Pathogenesis Of Wolfram Syndrome Different In Different Causal Genes

Sami S. Amr & Rita Shiang
Human and Molecular Genetics

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