

Twenty-Eighth Annual

Daniel T. Watts

Research Poster Symposium

A Scientific Forum for the VCU Community

**October 18-19, 2011
3:00 p.m to 5:00 p.m**

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

Session I - Tuesday, October 18, 2011

Presentations: A-01 to A-48

Session II – Wednesday, October 19, 2011

Presentations: B-01 to B-49

Session I – Tuesday 18 October

A-01 Access and Barriers to Healthcare in Three Northern Honduran Communities Served by the Honduras Outreach Medical Brigada Relief Effort (HOMBRE)

Catherine Pearson, Michael Stevens MD MPH, Kakotan Sanogo MS, Gonzalo Bearman MD MPH
Medicine-Infectious Disease

A-02 The Stat5-Fyn Partnership in Mast Cell Activity

Nicholas A. Pullen, Brian O. Barnstein, Yves T. Falanga, Tenchee Dhasela Lama Tamang*, Bridget S. Wilson, John J. Ryan *undergraduate researcher
Biology

A-03 Amphetamine induces a persistent serotonin transporter leak current

Ernesto Solis, Jr. and Louis J. DeFelice
Physiology and Biophysics

A-04 An open channel blocker dislodges the allosteric coupling between ligand binding and channel opening

Shengjun Wu, Changan Xie, Xinping Xu, Christina Vorvis, Farzana Marni, Weihua Gao, Qinglian Liu and Lei Zhou
Physiology and Biophysics

A-05 Biochemical and biophysical studies of AIM2-dsDNA complex

Govinda Remesh, S. and Escalante, C. R.
Physiology and Biophysics

A-06 The role of ADAM10 in Germinal Center Formation and Antibody Production

Natalia S. Chaimowitz, Rebecca K. Martin, Dae-Joong Kang, Hannah Zellner, David R. Gibb and Daniel H. Conrad
Microbiology and Immunology

A-07 Capturing Biomolecules: Towards The Design Of High Affinity Small Molecules Containing Electrophilic Bait.

Susan Daniela Selaya and Matthew C.T. Hartman, PhD
Chemistry

A-08 CAVEOLAE AS REGULATORS OF G-PROTEIN COUPLED RECEPTOR SIGNALING IN GASTROINTESTINAL SMOOTH MUSCLE

Sayak Bhattacharya, Sunila Mahavadi, Senthilkumar Rajagopal, Karnam S. Murthy
Department of Physiology and Biophysics

A-09 Characterization of eicosanoid synthesis in a genetic ablation model of ceramide kinase

Jennifer A. Mietla, Dayanjan S. Wijesinghe, Eric K. Mayton, Nadia F. Lamour, and Charles E. Chalfant
Biochemistry and Molecular Biology

A-10 Characterizing interactions between endothelial integrins and the Tie receptors

Annamarie Dalton and William Barton, PhD
Biochemistry and Molecular Biology

A-11 Compensatory roles of Krüppel-like transcription factors EKLF and KLF2 in mouse embryonic erythropoiesis

Divya S. Vinjamur, Mohua Basu, Jerry B Lingrel, Jack L. Haar, Joyce A. Lloyd
Human and Molecular Genetics

A-12 Developing Unnatural Cyclic Peptide Inhibitors

Zhong Ma, E. Railey White, David E. Hacker, Matthew C.T. Hartman
Chemistry

A-13 Development of in vivo quantification of angiogenesis and lymphangiogenesis

Masayuki Nagahashi, Subramaniam Ramachandran, Eugene Y. Kim, Jeremy C. Allegood, Omar M. Rashid, Akimitsu Yamada, Sheldon Milstien, Sarah Spiegel and Kazuaki Takabe
Surgery/Biochemistry

A-14 Drug delivery using photocaged cell impermeable drug conjugate

Martin Michael Dcona; Deboleena Mitra; Matthew C.T. Hartman*
Chemistry

A-15 Dynamic oligomeric behavior of AAV-2 Rep68

Zarate-Perez F., Musayev, F., Villamil-Jarauta M., Kekilli D., Linden, M., and Escalante, C. R.
Physiology and Biophysics

A-16 Effect of an oxygen therapeutic agent on systemic parameters of transgenic sickle cell mice

Sami Dodhy
Internal Medicine

A-17 Evidence of Shared Polygenic Risk Among Smoking Behaviors and Body Composition

Roseann E. Peterson*, Xiangning (Sam) Chen, Jingchun Chen, Bradley T. Webb, Hermine H. Maes
Human and Molecular Genetics

A-18 EXAMINING THE ASSOCIATION BETWEEN GPM1 AND HUMAN ALCOHOL DEPENDENCE (AD) USING ASSOCIATION AND EXPRESSION STUDIES

A.Adkins, F.Aliev, O.McMichael, D.Thiselton, VCU Alcohol Research Center, C.Prescott, D.Dick, V.Vladimirov, M.Reimers, S.Bowers, K.Kendler, B.Riley
Human and Molecular Genetics

A-19 EXPRESSION AND FUNCTION OF BILE ACID RECEPTOR TGR5 IN GASTROINTESTINAL SMOOTH MUSCLE

Senthilkumar Rajagopal, Othman Al-Shboul, Sunila Madhvadi, John F.Kuemmerle, Karnam S.Murthy
Physiology and Biophysics

A-20 Expressions of ATP-binding cassette transporters varies among subtypes in breast cancer

Akimitsu Yamada, Takashi Ishikawa, Masayuki Nagahashi, Kazuaki Takabe
Surgery

A-21 Factor Analysis of the Multidimensional Attitude Scale in a Population of Ethiopian College Students

Shuxian Zhang, Dr. Jessica M. Ketchum, Dr. Mimi Getachew
Department of Biostatistics

A-22 FTY720 Suppressed Breast Cancer Lung Metastasis using a 4T1-Luc 2 Cell Implantation Model

Barbara Adams, Masayuki Nagahashi, Subramaniam Ramachandran, Nitai Hait, Sheldon Milstien, Sarah Spiegel and Kazuaki Takabe
Surgery

A-23 Genes Have Both Trait-Specific and General Association with Measures of Alcohol Use and Abuse

Jacquelyn L. Meyers, Emma Nyman, Anu Loukola, Richard J. Rose, Jaakko Kaprio & Danielle M. Dick
Human and Molecular Genetics

A-24 Genome-wide association studies with stratifications

Wenan Chen, Guimin Gao
Biostatistics

A-25 KLF2 is Required for Normal Cardiac Development in Mice

Aditi R. Chiplunkar, Tina K. Lung, Fadi N. Salloum, Rakesh C. Kukreja, Jack L. Haar and Joyce A. Lloyd
Human and Molecular Genetics

A-26 MICRORNA DYSREGULATION IN PROSTATE CANCER: BIOLOGICAL NETWORK ANALYSIS REVEALS PREFERENTIAL REGULATION OF HIGHLY CONNECTED PROTEIN NODES

W.Budd¹, D.Weaver², J.Anderson², Z.Zehner³
1Integrative Life Sci, 2Ctr for Study of Bio Complexity, 3Dept of Biochem and Mol Biol

A-27 Molecular analysis of FhbB, the factor H binding protein of the periodontal pathogen Treponema denticola

Miller, D., McDowell, J.V., Bell, J.K., Marconi, R.T.

A-28 NOVEL ROLE OF THE μ -OPIOID/NOCICEPTIN ORPHANIN FQ RECEPTOR SYSTEM IN OLIGODENDROCYTE DEVELOPMENT AND BRAIN MYELINATION

Vestal-Laborde, A.A., Eschenroeder, A.C., Robinson, S.E., Sato-Bigbee, C.
Biochemistry and Molecular Biology

A-29 Optimization Of Terpenoid Precursors in Thermofibida fusca Using in silico Modeling

Niti Vanee, Stephen S. Fong
Integrative Life Sciences

A-30 Pituitary Adenylate Cyclase-Activating Peptide (PACAP) and Substance P (SP) induce the release of Brain-Derived Neurotropic Factor (BDNF) from the longitudinal muscle

Mohammad Alqudah, Sunila Mahavadi, Zachary L. Bradley, Jarren C. Kay, Karnam S. Murthy, and John R. Grider
Physiology and Biophysics

A-31 Predictors of Headache Density after Traumatic Brain Injury

Amber R. Wilk, Dr. Jessica M. Ketchum, Dr. William C. Walker, Jenny H. Marwitz
Biostatistics

A-32 Proteomics Suggests ErbB2/ErB3 as a New Target of miR17-3p Regulation

Danielle Weaver¹, William Budd², Emmanuel Petricoin³, Joy Ware⁴, Zendra Zehner⁵
1Ctr for Study of Bio Complexity, 2Integrative Life Sci, 3Center Applied Proteomics & Mol Medicine,
George Mason Univ, 4Dept of Pathology, 5Dept of Biochem & Mol Biol.

A-33 Risk Factors of Suicide Two Years Post Traumatic Brain Injury

Dr. Jessica Ketchum, Dr. Juan Carlos Arango-Lasprilla, Jenna Czarnota
Biostatistics

A-34 Roles for Fyn and Lyn Kinases in FcγR Signaling and IgG-mediated Systemic Anaphylaxis

Yves T. Falanga, Naty Chaimowitz, Nicholas A. Pullen,
Biology

**A-35 STRUCTURAL STUDIES OF REB1-TER3 COMPLEX & UNDERSTANDING REPLICATION
TERMINATION USING SAXS & X-RAY CRYSTALLOGRAPHY**

Jaiswal, R., and Escalante, C.R.
Physiology and Biophysics

**A-36 Study of a common deletion in ERBB4 in the Irish high-density schizophrenia families
and case/controls**

EK Loken, RL Elves, DL Thiselton, BT Webb, D Walsh, FA O'Neill, KS Kendler, BP Riley
Human and Molecular Genetics

A-37 The complex structure of DnaK with ATP

Ruifeng Qi, Qinglian Liu
Department of Physiology and Biophysics

**A-38 THE CRITICAL ROLE OF SPHINGOSINE KINASE 1 AND SPHINGOSINE-1-PHOSPHATE IN
CD40-MEDIATED IMMUNE RESPONSE**

Eugene Y. Kim, Jamie Sturgill, Kuzhuvelil B. Harikumar, Nitai C. Hait, Jeremy Allegood, Daniel Conrad,
Sheldon Milstien, and Sarah Spiegel
Biochemistry and Molecular Biology

A-39 Cancer Testis Antigens as prognostic biomarkers for breast cancer patients

Kyle K Payne, Amir A Toor, Masoud H Manjili
Microbiology and Immunology

**A-40 Adaptive Immunotherapy in Multiple Myeloma: Epigenetic Modification and
Immunomodulation by Sequential Azacitidine and Lenalidomide to Generate Cancer Testis Antigen
Specific Cellular Immune Response**

Amir A Toor, Kyle K Payne, Harold M Chung, Catherine H Roberts, Roy T Sabo, Maciej Kmiecik, William
Clark, Christy McLaughlin, Angela Buskey, Jennifer Anderson, Rose H Manjili, Susan D. Roseff, John M
McCarty, Masoud H Manjili
Microbiology and Immunology

A-41 The role of MBD2-NuRD corepressor complex in the developmental regulation of fetal gamma-globin gene

aMegha A. Desai, bNinad M Walavalkar, cMerlin N. Gnanapragasam, dJ. Neel Scarsdale, eDavid C. Williams, fGordon D. Ginder aDepartment of Human and Molecular Genetics, bIntegrative Life Sciences program, cDepartment of Human and Molecular Genetics, dIns Human and Molecular Genetics

A-42 The Role of Mitf and Otx Transcription Factors in Zebrafish RPE Development

Lane, BM, Lister, JA
Human and Molecular Genetics

A-43 The unique peptide substrate binding properties of Hsp110 molecular chaperone determines its distinct chaperone activity

Xinping Xu*, Divya Prasanna Kumar*, Christina Vorvis*, and Evans Boateng Sarbeng*, and Qinglian Liu
Physiology and Biophysics

A-44 Transcription Factors KLF1 and KLF2 Positively Regulate Embryonic and Fetal β -Globin Genes through Direct Promoter Binding

Yousef N. Alhashem, Divya S. Vinjamur, Mohua Basu, Ursula Klingmüller, Karin M. L. Gaensler and Joyce A. Lloyd
Human and Molecular Genetics

A-45 Understanding mechanisms generating 5-hydroxymethylcytosine in mammalian mitochondrial DNA

Prashant V. Thakkar, Shirley M. Taylor, Ph.D.
Microbiology and Immunology

A-46 Variable selection using LASSO in Bayesian D-Optimal Supersaturated Design

Jiayi Hou, Dr. Charlie Kish
Biostatistics

A-47 Variants in the 15q25 gene cluster are associated with risk for schizophrenia and bipolar disorder

Kia J. Jackson, Ayman H. Fanous, Jingchun Chen, Kenneth S. Kendler, Xiangning Chen
Psychiatry

A-48 Visceral inflammation increased serotonergic innervation of lumbar dorsal root ganglia: implications in viscerosomatic cross-sensitization

Chun-Mei Xia, Sharon J. Yu, Jarren C. Kay, and Li-Ya Qiao
Physiology and Biophysics

Session II - Wednesday 19 October

B-01 Relationship between radiation-induced autophagy and senescence in MCF7 breast tumor cells

Khushboo Sharma, Rachel W. Goehe, Dr. David Gewirtz
Pharmacology and Toxicology

B-02 A variable target comparison of whole breast and partial breast irradiation fractionation regimens. Do the current margins make sense?

E. Al Sulaimani, D. Arthur, D. Todor
Radiation Oncology

B-03 Access and Sanitation of Drinking Water and Diarrheal Disease in the Department of Yoro, Honduras

1Gabriela E. Halder, MPH, 2Gonzalo Bearman, MD, MPH, 2Michael P. Stevens, MD, MPH
1Department of Medical Education, 2Department of Internal Medicine, Division of Infectious Diseases

B-04 OSTEOPONTIN: AN ACUTE INFLAMMATORY MEDIATOR OF SUCCESSFUL SYNAPTIC RECOVERY FOLLOWING TRAUMATIC BRAIN INJURY

Julie L. Chan and Linda L. Phillips
Anatomy and Neurobiology

B-05 Agonist-Induced Rho Kinase and ZIP kinase Activity Levels in Different Regions of the Stomach

Otman Al-Shboul, Sayak Bhattacharya, Sunila Mahavadi, and Karnam S. Murthy
Physiology and Biophysics

B-06 Analysis of Human polynucleotide phosphorylase (hPNPaseold-35) function

Upneet K. Sokhi^{1, 2, 3}, Devanand Sarkar^{1,2,3} and Paul B. Fisher^{1, 2, 3}
Human and Molecular Genetics

B-07 Characterization of Mutations affecting SaPI1 Capsid Size Determination

Erin A. Wall, P. K. Damle, Altaira Dearborn, M. Spilman, G. E. Christie, T. Dokland
Microbiology and Immunology - Molecular Biology and Genetics

B-08 Characterizing how estrogen-related receptor (ERR) regulates metabolic changes under hypoxia using Drosophila melanogaster

Yan Li, Keith D. Baker
Biochemistry and Molecular Biology

B-09 Chinese culture, perceived social support and consistent condom use among young drug users: A Path-analytic model analysis

Jennifer Nield, Jian Li, Hongjie Liu, Jianhua Li, Jian Luo
Epidemiology

B-10 Chronic Morphine Treatment Influences Mu- Opioid Receptor Agonist Effects on Intracranial Self-Stimulation

Ahmad Altarifi and S. Stevens Negus
Pharmacology and Toxicology

B-11 Confidence Interval Adjustment for Variance Components in Twin Studies

Hao Wu and Michael C. Neale

Psychiatry

B-12 DEFORMABLE REGISTRATION AND ANALYSIS OF SMALL ANIMAL 18F-FLT AND 18F-FDG PET/CT IMAGES

C Bass, J He, M Axente, S Gobalkrishnan, J Hirsch, G Hugo, J Zweit, A Pugachev

Medical Physics

B-13 Differential Development of Tolerance and Withdrawal in β -Arrestin2 Knockout Mice Ileum and Colon Circular Muscle Following Repeated Exposure to μ -Opioid Receptor Agonists.

Maguma, H.T., Dewey W., Akbarali H.I.

Pharmacology and Toxicology

B-14 Electrophysiological Characterization of Mouse Enteric Neurons

TH Smith, WL Dewey and HI Akbarali

Pharmacology and Toxicology

B-15 ETHANOL-INDUCED CELL FATE ALTERATIONS IN C. ELEGANS

Lindsay Kondo, Richard Raabe, Kalyann Kauv, Mia Bolling, Andrew Davies, and Jill Bettinger

Pharmacology and Toxicology

B-16 Genetic analysis of acute ethanol responsive behaviors in C. elegans

Joseph Alaimo, Keith Shelton, Andrew Davies, and Jill Bettinger

Pharmacology and Toxicology

B-17 HIV-1 Neuropathogenesis: Effects of Morphine and gp120 on Glia

Samano, K.L., Knapp, P.L., & Hauser, K.F.

Pharmacology and Toxicology

B-18 Identification of critical inter-subunit contacts in protein allostery guided by collective molecular motions

Farzana Marni, Shengjun Wu, Gaureve Shah, Changan Xie, Xin-ping Xu, Qinglian Liu and Lei Zhou

Physiology and Biophysics

B-19 IDENTIFICATION OF GENES THAT MEDIATE ETHANOL-INDUCED ACUTE FUNCTIONAL TOLERANCE IN C. ELEGANS

Ka-Po Leung, Mia Bolling, Gina Blackwell, Jennifer Gardner, Andrew Davies, and Jill Bettinger

Pharmacology and Toxicology

B-20 IFI16 REQUIRES COOPERATIVE ACTION OF TWO HIN DOMAINS IN SENSING THE INTRACELLULAR MICROBIAL DNA

Jaiswal, R., and Escalante, C.R.

Physiology and Biophysics

B-21 Intracranial Self Stimulation: Examining the Rewarding Properties of Abused Inhalants

Matthew Tracy

Pharmacology and Toxicology

B-22 Intramitochondrial injury during Ischemia-Reperfusion

Hema S Aluri, Edward J. Lesnefsky, Jr., MD

Physiology and Biophysics

B-23 Knowledge-driven analysis identifies novel developmental growth factors involved in Hepatitis C- induced Hepatocellular Carcinoma

Martha K Behnke, Mark Reimers, Robert A Fisher

Integrative Life Sciences

B-24 MAGL Inhibition: Potential Treatment for Nicotine Dependence

Pretal Muldoon, Aron Lichtman, Ph.D., Imad Damaj, Ph.D.

Pharmacology and Toxicology

B-25 Molecular Biomarkers of Human Kidney Transplantation in Ischemia Reperfusion Injury

Mba, MU; Maluf, DG; Dumur, CI; Scian, M; Posner, MP; King, AL; Gehr, TWB; Sharma, A;Cotterell, AU; Ren, Q & Mas, VR

Physiology and Biophysics

B-26 Multi-spectral fluorescence imaging of adoptive immune cell therapy using a cell membrane probe.

Fatma Youniss¹, Gobalakrishnan Sundaresan¹, Laura Graham², Collin Berry¹, Harry Bear², Jamal Zweit¹.

Center for Molecular Imaging

B-27 Activation of the Receptor for Advanced Glycation End Products (RAGE) and Oxidative Stress Mediate Up-Regulation of RhoA/Rho Kinase Pathway and Smooth Muscle Contraction in Diabetes

Sunila Mahavadi, Olivia Manion, Shobha Ghosh, and Karnam S. Murthy

Physiology and Biophysics

B-28 O-linked β -N-acetylglucosamine modification of MYPT1 reciprocally regulates its phosphorylation at Ser695 and Thr696 by PKG and Rho kinase, respectively: A novel mechanism that contributes to increased smooth muscle tone in diabetes.

Sunila Mahavadi, John R. Grider and Karnam S. Murthy

Physiology and Biophysics

B-29 Opioids and HIV-1 Associated Neurodegeneration: Possible Regulation by P2X4 Purinergic Receptors in Primary Mouse Striatal Cells

Sorrell, M.E. (1), Zou, S. (2), Knapp, P.E. (1, 2), and Hauser, K.F. (1); (1) Dept. Pharmacol. & Toxicol., (2) Dept. Anat. & Neurobiol., Virginia Commonwealth Univ. Coll. of Medicine, Richmond, VA, USA.

Pharmacology and Toxicology

B-30 Pharmacogenomic study of side effects for antidepressant treatment options in STAR*D

Shaunna L. Clark, Daniel E. Adkins, Karolina Aberg, John M. Hetteema, Joseph L. McClay, Renan P. Souza, Edwin J.C.G. van den Oord

Center for Biomarker Research and Personalized Medicine

B-31 Photo-controlled Drug Release From A Caged Drug Conjugate

Deboleena Mitra, Martin Michael Dcona, Matthew C.T.Hartman

Department of Chemistry, Massey Cancer Center

B-32 PROBING STRUCTURE-ACTIVITY REALTIONSHIPS OF SIMOCYCLINONE D8'S COUMARIN BINDING SITE

Lauren M Gaskell and Keith C Ellis

Medicinal Chemistry

B-33 PROCESSING OF BLOCKED OXIDATIVELY MODIFIED DNA DOUBLE-STRAND BREAK ENDS BY METNASE

Susovan Mohapatra, Suk-Hee Lee, Vijay Menon, Robert A. Hromas, Lawrence F. Povirk

Pharmacology and Toxicology

B-34 REGULATION OF PRO-INFLAMMATORY TH17 RESPONSES DURING T. CRUZI INFECTION BY IL-12-FAMILY CYTOKINES

Drew Cobb, and Ronald B. Smeltz

Microbiology and Immunology

B-35 Role of Interdomain linker on AAV-2 Rep68 oligomerization

Zarate-Perez, F., Villamil-Jarauta, M., Burgner, J., Das, K., Kekilli, D., Linden, M., and Escalante, C.R.

Physiology and Biophysics

B-36 Role of the HPA Axis in Behavioral Responses to Ethanol

Blair N. Costin and Michael F. Miles

Pharmacology and Toxicology

B-37 Sphingosine kinase 1 inhibition attenuates mast cell-dependent allergic asthma in mice

Megan M. Price¹, Carole A. Oskeritzian¹, Yves T. Falanga², Kuzhuvelil B. Harikumar¹, Jeremy C. Allegood¹, Sergio E. Alvarez¹, Daniel Conrad³, John J. Ryan², Sheldon Milstien¹, and Sarah Spiegel¹

Biochemistry and Molecular Biology
Departments of ¹Biochemistry and Molecular Biology and ³Microbiology and Immunology;
²Department of Biology

B-38 Sphingosine-1-Phosphate: a missing cofactor for lysine 63-linked poly-ubiquitinations in pro-inflammatory cytokines mediated signaling

Kuzhuvelil B. Harikumar, Nitai C. Hait, Jeremy Allegood, Eugene Y. Kim, Michael Maceyka, Sheldon Milstien, Sarah Spiegel, and Tomasz Kordula

Biochemistry and Molecular Biology, Massey Cancer Center

B-39 Structure-Guided design of bivalent simocyclinone D8 analogs that display an improved antibacterial activity by binding to DNA gyrase

Jenson Verghese* and Keith C. Ellis

Medicinal Chemistry

B-40 The Discriminative Stimulus Effects of Nitrous Oxide

Kellianne Richardson and Keith L. Shelton

Pharmacology and Toxicology

B-41 THE IMPACT OF ADOLESCENT NICOTINE EXPOSURE ON DRUG DEPENDENCE IN ADULTHOOD

Mai Alajaji, M.S. and M. Imad Damaj, Ph.D

Pharmacology and Toxicology

B-42 The interaction between the cannabinoid agonist Win55,212-2 and radiation in breast cancer

Emery, S., Sumner, E., Lichtman, A., & Gewirtz, D.

Pharmacology and Toxicology

B-43 The role of Alpha5* Nicotinic Acetylcholine Receptors in the acute and chronic effects in mice

Dawson, AJ; Miles MF; Damaj IM

Pharmacology and Toxicology

B-44 The role of CCR5 in morphine and HIV-1 Tat mediated neuropathogenesis

Elizabeth M. Podhaizer, Pamela E. Knapp, and Kurt F. Hauser

Pharmacology and Toxicology

B-45 Transcriptional transitions in response to hypoxia and energy expenditure

Divya Padmanabha

Biochemistry and Molecular Biology

B-46 TriplatinNC; Heparan Sulfate Mediated Cell Entry and Nucleolar Localization.

Erica Peterson, Heveline Silva, Vijay Menon, Brad Benedetti, Ralph Kipping, Nicholas Farrell

Chemistry

B-47 TRIUMPH OVER ADVERSITY: A QUALITATIVE STUDY OF NARRATIVE, COPING AND EXPERIENCE IN INDIVIDUALS DIAGNOSED WITH CANCER

Utkarsh Subnis

Social and Behavioral Health

B-48 Using Genetic Information from Genome Wide Association Studies in Risk Prediction for Alcohol Dependence in the COGA and SAGE GWAS Samples

Jia Yan, Fazil Aliev¹, Kenneth S. Kendler¹, Bradley T. Webb¹, Mark A. Schuckit², John I. Nurnberger Jr.³, Howard J. Edenberg⁴, John R. Kramer⁵, Alison M. Goate⁶, Jay A. Tischfield⁷, Danielle M. Dick¹

Human and Molecular Genetics

B-49 Decision Analysis Model Evaluating the Cost-Effectiveness of Fidaxomicin and Vancomycin in the Treatment of Clostridium Difficile Infection (CDI) from a Hospital Perspective

Maryam Alowayesh, David Holdford, Spencer Harpe

School of Pharmacy - Department of Pharmacotherapy and Outcomes Science