27th ANNUAL RESEARCH SHOWCASE AND AWARDS RECOGNITION DAY

THURSDAY, FEBRUARY 20TH, 2014

UNIVERSITY OF FLORIDA COLLEGE OF PHARMACY

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SCHEDULE OF EVENTS

8:00am - 9:00am  Set-up Poster Presentations (Reception Hall, HPNP Building)

POSTER COMPETITION

9:00am - 11:30am  Poster Competition – Students Present for Judging
(Reception Hall, HPNP Building)

11:45am - 12:45pm  Luncheon – Sponsors and Judges (Dean’s Conference Room, Room 4307, HPNP Building)

ORAL COMPETITION

12:55pm - 1:05pm  Introduction – Dr. Taimour Langae, Research Associate Professor,
Pharmacotherapy & Translational Research (Room C1-15, Communicore Building)

Levitt Division (20 minute presentations)

1:05pm - 1:25pm  Wei Liu
1:25pm - 1:45pm  Xinyue Liu

Junior Division (15 minute presentations)

1:50pm - 2:05pm  Michelle Suzanne Bousquet
2:05pm - 2:20pm  Ahmed Elshikha
2:20pm - 2:35pm  Kaley MacFadyen
2:35pm - 2:50pm  Mohamed Shahin

2:50pm - 3:00pm  BREAK

Senior Division (20 minute presentations)

3:00pm - 3:20pm  Erin Jackson
3:20pm - 3:40pm  Bhargava Kandala
3:40pm - 4:00pm  Marina Kawaguchi-Suzuki

4:15pm - 5:15pm  Keynote Address – Deanna L. Kroetz, Ph.D., Professor of
Bioengineering and Therapeutic Science; Director, Pharmaceutical
Sciences and Pharmacogenomics Graduate Program, Schools of
Pharmacy and Medicine, University of California San Francisco,
“Clinical and Functional Pharmacogenomic Studies in Breast Cancer”
(Room C1-15, Communicore Building)

5:15pm - 7:00pm  Awards Reception – Refreshments and Announcement of Winners
(Reception Hall, HPNP Building)

ORAL COMPETITION

LEVITT DIVISION

#1  Presenter: Wei Liu
    Department: Pharmaceutical Outcomes and Policy
    Research Title: Utilization Pattern of Phosphodiesterase Type 5 Inhibitors for Erectile Dysfunction among Commercially Insured Adults in the United States: Analysis of Health Plan Member Claims

#2  Presenter: Xinyue Liu
    Department: Pharmaceutical Outcomes and Policy
    Research Title: Development of a Novel Approach to Assess Psychotropic Polypharmacy in Administrative Databases

JUNIOR DIVISION

#1  Presenter: Michelle Suzanne Bousquet
    Department: Medicinal Chemistry
    Research Title: Probing the Cytoprotective Nrf2-ARE Pathway using Natural Product and Genomic Based Approaches

#2  Presenter: Ahmed Elshikha
    Department: Pharmaceutics
    Research Title: Therapeutic Potentials of Human α-1 Antitrypsin (hAAT) for the Treatment of Lupus-The Effect on Dendritic Cell (DC) Maturation and its Functions

#3  Presenter: Kaley MacFadyen
    Department: Pharmacodynamics
    Research Title: Oxytocin Inhibits Ethanol Intake Possibly via a Direct Effect on Mesolimbic Dopamine Neurons

#4  Presenter: Mohamed Shahin
    Department: Pharmacotherapy & Translational Research
    Research Title: Integrating Pharmacometabolomics with Pharmacogenomics Reveals a Novel Biomarker Associated with Blood Pressure Response in Hydrochlorothiazide Treatment Patients

SENIOR DIVISION

#1  Presenter: Erin Jackson
    Department: Medicinal Chemistry
    Research Title: Glucuronidation of Triclosan in Human Liver Microsomes and Expressed UDP-Glucuronosyltransferases (UGTs)

#2  Presenter: Bhargava Kandala
    Department: Pharmaceutics
    Research Title: Application of Modeling and Simulation in Clinical Dose Selection during First in Human (FIH) Phase-1 Clinical Trial

#3  Presenter: Marina Kawaguchi-Suzuki
    Department: Pharmacotherapy & Translational Research
    Research Title: Pharmacodynamic Association of Pioglitazone and its Active Metabolites with Liver Outcomes among Patients Diagnosed with Nonalcoholic Steatohepatitis
# 1 Therapeutic Potential of Alpha-1 Antitrypsin and Mesenchymal Stem Cells for the Treatment of Osteoporosis

Presenters: Mohammad Ahsanul Akbar (Pharmaceutics/Graduate Student)
Authors: M Akbar, A Elshikha, Y Lu, M-J Chen, S Song

# 2 Aprazole, A Linear Analogue of the Potent Anticancer Apratoxins from the Marine Cyanobacterium Moorea Bouillonii: Isolation, Structure Elucidation, Bioactivity and Biosynthetic Implications

Presenter: Fatma Al-Awadhi (Medicinal Chemistry/Graduate Student)
Authors: F Al-Awadhi, R Ratnayake, S Matthew, V Paul, H Luesch

# 3 A Pharmacokinetic Model Simulating the Absorption, Distribution and Elimination of Gold Nanoparticles Following an Oral Administration

Presenter: Ahmed Alalaiwe (Pharmaceutics/Graduate Student)
Authors: A Alalaiwe, G Hinkley, S Roberts

# 4 Epidemiology of Tympanoplasty in Children with Tympanic Tubes

Presenter: Adel Alrwisan (Pharmaceutical Outcomes and Policy/Graduate Student)
Authors: A Alrwisan, P Antonelli, A Winterstein

# 5 Levofloxacin Dose Optimization for Multidrug Resistant Tuberculosis Based on Lung Microdialysis in Patients

Presenter: Aline Bergesch Barth (Pharmaceutics/Graduate Student)
Authors: A Barth, R Singh, J May, J Johnson, E Prieto, R Isaza, R Kempker, C Peloquin, H Derendorf

# 6 Assessing the Relationship between the Extent of Adsorption of Drug onto Charcoal and their Physicochemical Properties

Presenter: Sharvari Bhagwat (Pharmaceutics/Graduate Student)
Authors: S Bhagwat, M Jetzer, A Goes, G Hochhaus

# 7 Effect of Metal Ion on Minimum Inhibitory Concentrations of Tigecycline against Escherichia Coli

Presenter: Nadia Bharose (Pharmaceutics/Graduate Student)
Authors: N Bharose, T Schumacher, R Singh, S Sy, J Mukker, H Derendorf

# 8 Discovery, Synthesis, and Biological Evaluation of Apratyramide, a Transcriptional Modulator of Dipeptidyl Peptidase 4 with Selective Anticancer Activity Isolated from a Marine Cyanobacterium

Presenter: Weijing Cai (Medicinal Chemistry/Graduate Student)
Authors: W Cai, L Salvador, W Zhang, S Matthew, R Ratnayake, V Paul, L Dang, H Luesch

# 9 The Composition of ExcitatorySynaptic Current in Cortical Layer 2/3 Pyramidal Neurons in Young and Aged Rodents

Presenter: Haley Carpenter (Pharmacodynamics/Graduate Student)
Authors: H Carpenter, K Kelly, J Bizon, C Frazier

# 10 A Pharmacogenomic Genome-Wide Association Study (GWAS) for New Onset Diabetes (NOD) in the International VErapamil STudy (INVEST)

Presenter: Shin-Wen Chang (Pharmacotherapy & Translational Research/Graduate Student)
Authors: S-W Chang, C McDonough, Y Gong, C Pepine, J Johnson, R Cooper-DeHoff

# 11 Cost-Effectiveness of Fidaxomicin for the Treatment of Clostridium difficile Infection

Presenter: Chao Chen (Pharmaceutical Outcomes and Policy/Graduate Student)
Authors: C Chen, H Park, A Hartzema

# 12 Identification of Risk Factors Associated with Falls among Hospital Inpatients to Develop Dynamic Risk Models

Presenter: Yoonyoung Choi (Pharmaceutical Outcomes and Policy/Graduate Student)
Authors: Y Choi, B Staley, T Johns, A Winterstein

# 13 The Impact of Epilepsy on Employment Status: A Retrospective Cohort Study

Presenter: Chintan Dave (Pharmaceutical Outcomes and Policy/Graduate Student)
Authors: C Dave, A Hartzema

# 14 Racial and Ethnic Variations in Lifestyle and Dietary Patterns among Women with History of Gestational Diabetes

Presenter: Ghadeer Dawwas (Pharmaceutical Outcomes and Policy/Graduate Student)
Authors: G Dawwas, L Bakhireva

# 15 A Physiologically Based Pharmacokinetic Model of Gefitinib Disposition: from Rat to Man

Presenter: Jiexin Deng (Pharmaceutics/Graduate Student)
Authors: J Deng, L Lesko, G An

# 16 Genome Wide Association Analysis of Resistant Hypertension in INVEST

Presenter: Nihal El Rouby (Pharmacotherapy & Translational Research/Graduate Student)
Authors: N El Rouby, J Johnson, C McDonough

# 17 In-vitro uses of Microdialysis to Measure Unbound Drug Concentrations

Presenter: Nivea Maria Simoes Falcao (Pharmaceutics/Graduate Student)
Authors: N Falcao, R Singh, D Gonzalez, S Pieper, H Derendorf

# 18 Identification and Selective Stimulation of Hypothalamic Corticotropin Releasing Hormone Containing Neurons Expressing Light Sensitive Channelrhodopsin-2

Presenter: Scott William Harden (Pharmacodynamics/Graduate Student)
Authors: S Harden, E Krause, C Frazier
# 19 Building a Predictive Risk Model for QT Prolongation in the Inpatient Setting using Electronic Health Record Data

Presenter: Juan M. Hincapie Castillo (Pharmaceutical Outcomes and Policy/Graduate Student)
Authors: J Hincapie Castillo, A Winterstein, A Saidi

# 20 Development and Optimization of an In-vitro Dissolution System for Inhaled Drug Products

Presenter: Martin Jetzer (Pharmaceutics/Graduate Student)
Authors: S. Bhagwat, M Jetzer, A Krome, A Goes, R Rajan, G Hochhaus

# 21 Age-related Changes in GABAb Receptor Mediated Inhibitory Tone in the Medial Prefrontal Cortex

Presenter: Kyle Kelly (Pharmacodynamics/Graduate Student)
Authors: K Kelly, H Carpenter, J Bizon, C Frazier

# 22 Inflight Pharmacokinetic and Pharmacodynamic Responses to Medications Commonly used in Spaceflight

Presenter: Johannes Kast (Pharmaceutics/Graduate Student)
Authors: J Kast, L Barger, Y Bokrand-Donatelli, H Derendorf, S Smith, V Wotring

# 23 The Effect of Peripheral Salt Loading on Central Circuits that Regulate Stress

Presenter: Dipanwita Pati (Pharmacodynamics/Graduate Student)
Authors: D Pati, C Frazier, J Smith, A de Kloet, E Krause

# 24 A National Survey to Prioritize Preventable Adverse Drug Events in the Hospital Setting

Presenter: Nakyung Jeon (Pharmaceutical Outcomes and Policy/Graduate Student)
Authors: N Jeon, A Winterstein

# 25 Towards the Total Synthesis of Lyngbyastatin 7 for the Treatment of Pulmonary Diseases

Presenter: Danmeng Luo (Medicinal Chemistry/Graduate Student)
Authors: D Luo, Q-Y Chen, H Luesch

# 26 Building a Predictive Risk Model for Drug-induced Kidney Injury in the Inpatient Setting using Electronic Health Record Data

Presenter: Nakyung Jeon (Pharmaceutical Outcomes and Policy/Graduate Student)
Authors: N Jeon, A Winterstein

# 27 Fibroblast Growth Factor Peptide (FGF-P): Mitigation Agent for Treatment of Various Radiation Syndromes

Presenter: Ing-orn Prasanchaimontri (Pharmaceutics/Graduate Student)
Authors: I Prasanchaimontri, R Singh, H Derendorf, P Okunieff

# 28 Secretions of Adipose Derived Stem Cells for the Treatment of Monocrotaline Induced Pulmonary Hypertension

Presenter: Anandharajan Rathinasabapathy (Pharmacodynamics/Graduate Student)
Authors: A Rathinasabapathy, V Shenoy, E Bruce, A Espejo, M Raizada, M Katovich

# 29 Examining the Association between Risk Taking Behavior and Human Papilloma Virus (HPV) Vaccination Status

Presenter: Donna R. Rivera (Pharmaceutical Outcomes and Policy/Graduate Student)
Authors: D Rivera, E Eworuke, A Hartzema

# 30 Whole Transcriptome Analysis to Identify Differentially Expressed Genes Associated with Blood Pressure Responses to Hydrochlorothiazide Monotherapy

Presenter: Ana Caroline Costa Sá (Pharmaceutical Outcomes and Policy/Graduate Student)
Authors: A Sá, A Webb, Y Gong, T Langaece, R Cooper-DeHoff, W Sadee, J Johnson

# 31 Personalizing Antiplatelet Therapy: Development of a Physiology-based and Genotype-directed Dosing Algorithm for Clopidogrel

Presenter: Snehal Samant (Pharmaceutics/Graduate Student)
Authors: S Samant, X-L Jiang, R Horenstein, A Shuldiner, L Yerges-Armstrong, M Trame, L Lesko, S Schmidt

# 32 A Simulation Model to Predict the Pharmacokinetics of Intranasally Administered Fluticasone Propionate

Presenter: Uta Schilling (Pharmaceutics/Graduate Student)
Authors: U Schilling, G Hochhaus, B Kandala

# 33 Exploring the Synergy of TKIs Combination Therapy – A Pilot Study of P-gp-mediated Interaction between Dasatinib and Imatinib in LLC pk1 Cells

Presenter: Jie Shao (Pharmaceutics/Graduate Student)
Authors: J Shao, J Deng, D Bei, G An

# 34 Exploring Factors that Impact the Activity of a Polycyclic Aromatic Hydrocarbon Exposure Biomarker, EROD, in Livers of Finfish from the Gulf of Mexico

Presenter: Marci Smeltz (Medicinal Chemistry/Graduate Student)
Authors: M Smeltz, L Glicksman, G Zhong, L Rowland-Faux, M James, A Kane, W Patterson

# 35 Systematic Review and Meta-Analysis of Gender Impact on Rheumatoid Arthritis Treatment Response

Presenter: Xuyang Song (Pharmaceutics/Graduate Student)
Authors: X Song, L Fang, P Ji, Y-M Wang, Y Wang, C Sahajwalla, J Lee, J Maynard, S Yim, H Derendorf, D Bashaw
# 36 Establishment of an In Vitro Model for Studying Neuron-Microglia Interplay in Ischemic Injury: Potential Role of Ischemia Responsive Protein (Irp94)

Presenter: Rajiv Tikamdas (Pharmacodynamics/Graduate Student)
Authors: R Tikamdas, S Song, B Liu

# 37 Cefotibiprole Medocaril (BAL-5788) for the Treatment of Complicated Skin and Skin Structure Infections

Presenter: Amelia Tucker (Pharmaceutics/Graduate Student)
Authors: A Tucker, A Barbour, H Derendorf

# 38 Evaluation of Clinical Outcomes and Vancomycin AUC/MIC Ratio in Patients with MRSA Bacteremia

Presenter: Alexander Voelkner (Pharmaceutics/Graduate Student)
Authors: A Voelkner, B McCullough, K Klinker, H Derendorf

# 39 Angiotensin Converting Enzyme 2 Acts in the Brain to Decrease Anxiety-like Behavior and Stress-induced Activation of the Hypothalamic-Pituitary-Adrenal Axis

Presenter: Lei Wang (Pharmacodynamics/Graduate Student)
Authors: L Wang, A de Kloet, H Hiller, J Smith, D Pioquinto, D Nguyen, S Oh, M Katovich, M Raizada, E Krause

# 40 Chloride and Other Anions Inhibit Dichloroacetate-induced Anactivation of Human Liver GSTZ1 in a Haplotype-dependent Manner

Presenter: Guo Zhong (Medicinal Chemistry/Graduate Student)
Authors: G Zhong, W Yi, Y Gu, T Langae, P Stacpoole, M James

# 41 Validation of Algorithms to Establish the Beginning of Pregnancy in Medicaid Database

Presenter: Yanmin Zhu (Pharmaceutical Outcomes and Policy/Graduate Student)
Authors: A Winterstein, C Knox, Y Zhu

# 42 Novel Biocatalyst Development: The Creation of Self-sufficient P450 Monoxygenases for Aromatic Nitration Reactions

Presenter: Ran Zuo (Medicinal Chemistry/Graduate Student)
Authors: R Zuo, Y Ding

# 43 ESBL Bacteremia: Defining a Role for Cefepime

Presenter: Joseph M. Abbatematteo (Gainesville Campus/Professional Student)
Authors: J Abbatematteo, K Hernandez, J Pardo, S Borgert, K Klinker

# 44 Compliance with IDSA CAP Guidelines for Empiric Therapy and Streamlining Based on Cultures and Sensitivity

Presenter: Britney Bisio (St. Pete Campus/Professional Student)
Authors: B Bisio, R Wilson, C Field

# 45 Development of a Method to Analyze Fluconazole and Baicalein Simultaneously

Presenter: Lukas Diederich (Gainesville Campus/Professional Student)
Authors: L Diederich, A Matsushima, A Diniz, H Derendorf

# 46 The Effects of Statin Therapy on PPARγ Protein Expression

Presenter: Brian Gawronska (Gainesville Campus/Professional Student)
Authors: B Gawronska, B Zhang, R Wang, R Cooper-DeHoff

# 47 Effects of Coenzyme Q10 Supplementation on Statin-Induced Glucose Dysregulation in 3T3-L1 Adipocytes

Presenter: Erika Giblin (Gainesville Campus/Professional Student)
Authors: E Giblin, B Zhang, R Cooper-DeHoff

# 48 P4P: Performance Reports that Alter Patient and Provider Behavior

Presenter: Lauren Hundley (Gainesville Campus/Professional Student)
Authors: L Hundley, E Lipowski

# 49 Development of a Prediction Model of Drug Induced Hypoglycemia in Inpatient Setting

Presenter: Aaron Joseph (St. Pete Campus/Professional Student)
Authors: A Joseph, A Winterstein

# 50 Predictors of Adherence to Non-Warfarin Oral Anticoagulants in Non-Valvular Atrial Fibrillation

Presenter: Maryam M. Khazraee (Gainesville Campus/Professional Student)
Authors: M Khazraee, P Gleason, C Starner, Y Qiu

# 51 Analysis of a Pharmacodynamic Crossover Study Conducted to Establish Bioequivalence of Formoterol Aerolizer and Formoterol Novolizer

Presenter: Brian Maas & Roy Joseph (Gainesville Campus/Professional Students)
Authors: B Maas, R Joseph, B Kandala, L Hendeles, S Yong, G Hochhaus

# 52 Outcomes Associated with Clostridium difficile in Neutropenic Oncology Patients

Presenter: Emily McIeray (Gainesville Campus/Professional Student)
Authors: E McIeray, K Klinker, G Trikha

# 53 Review of Continuing Education and Published Literature Related to Women’s Health and Pharmacy

Presenter: Cynthia Moreau (Gainesville Campus/Professional Student)
Authors: C Moreau, D Wilson
# 54 Mas Antagonist Blocks the Beneficial Effects of AT2 Receptor Agonist in a Model of Pulmonary Hypertension

Presenter: Allison Oswalt (Gainesville Campus/Professional Student)
Authors: A Oswalt, E Bruce, V Shenoy, M Raizada, U Steckelings, C Summers, M Katovich

# 55 A Systematic Review of Preventable Adverse Drug Events in Pediatric Inpatients

Presenter: Crystal D. Rose (Gainesville Campus/Professional Student)
Authors: C Rose, A Winterstein

# 56 Maternal Hypercortisolemia and Hyperglycemia Increases Lipid Peroxidation in Fetal Pericardial Fat

Presenter: Katelyn Zeringue (Gainesville Campus/Professional Student)
Authors: K Zeringue, E Richards, M Keller-Wood

# 57 Investigating the Effect of Plasma Protein Binding on the Pulmonary Pharmacodynamics after Inhalation of Budesonide and Ciclesonide

Presenter: Mongjen Chen (Pharmaceutics/Post-doctoral Fellow)
Authors: S Bhagwat, A Krome, M Chen, M Jetzer, G Hochhaus

# 58 Does Pharmacist-Physician Collaboration in Medication Therapy Management (MTM) Improve Care?

Presenter: Patrick Cogan (Pharmacotherapy & Translational Research/Post-doctoral Fellow)
Authors: K Vogel Anderson, P Cogan, D Pierini, E Rosenberg

# 59 Novel Cyclic Peptoids to Target HIV RNA for AIDS Therapy

Presenter: Junjie Fu (Medicinal Chemistry/Post-doctoral Fellow)
Authors: J Fu, Y Zhang, V Wong, X Qi

# 60 Mechanism-based Evaluation of Codeine Toxicity in Children

Presenter: Puneet Gaitonde (Pharmaceutics/Post-doctoral Fellow)
Authors: P Gaitonde, M Trame, S Syvanen, L Lesko, S Schmidt

# 61 The Roles of Chloride and GSTZ1 in the Metabolism of Dichloroacetate

Presenter: Stephan Jahn (Medicinal Chemistry/Post-doctoral Fellow)
Authors: S Jahn, G Zhong, M Smetlz, L Rowland-Faux, P Stacpoole, M James

# 62 Metal Ion Chelation by Tigecycline Explains Atypical Nonlinear Plasma Protein Binding Behavior

Presenter: Jatinder Kaur Mukker (Pharmaceutics/Post-doctoral Fellow)
Authors: J Mukker, R Singh, H Derendorf

# 63 Angiotensin-(1-7) Improves Engraftment and Enhance Reparative Potential of Cardiac Progenitor Cells in a Rat Model of Myocardial Infarction

Presenter: Yanfei Qi (Pharmacodynamics/Post-doctoral Fellow)
Authors: Y Qi, E Bruce, V Shenoy, R Vohra, C Cole-Jeffrey, J Abbatematteo, M Zingler, G Walter, C Pepine, M Katovich, M Raizada

# 64 A Systematic Review of Preventable Adverse Drug Events in Inpatients

Presenter: Ariadna Auladell Rispau (Pharmaceutical Outcomes and Policy/Post-doctoral Fellow)
Authors: A Rispau, A Winterstein

# 65 Monte Carlo Simulation to Determine the Effect of Atypical Nonlinear Plasma Protein Binding on Clinical Breakpoint of Tigecycline

Presenter: Ravi Shankar Prasad Singh (Pharmaceutics/Post-doctoral Fellow)
Authors: R Singh, J Mukker, H Derendorf

# 66 A Novel Simple Method for Determining CYP2D6 Copy Number and Identify Alleles with Duplication/Multiplication

Presenter: Issam Hamadeh (Pharmacotherapy & Translational Research/Post-doctoral Fellow)
Authors: I Hamadeh, T Langae, R Dwivedi, S Garcia, B Burkely, A Chapman, J Gums, S Turner, Y Gong, R Cooper-DeHoff, J Johnson

# 67 Impact of CYP2D6 Polymorphisms on the Clinical Efficacy and Tolerability of Metoprolol Tartrate

Presenter: Issam Hamadeh (Pharmacotherapy & Translational Research/Post-doctoral Fellow)
Authors: I Hamadeh, T Langae, R Dwivedi, S Garcia, B Burkely, A Chapman, J Gums, S Turner, Y Gong, R Cooper-DeHoff, J Johnson
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POSTER COMPETITION

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