26th ANNUAL RESEARCH SHOWCASE AND AWARDS RECOGNITION DAY

THURSDAY, FEBRUARY 28TH, 2013

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)

ORAL COMPETITION

1:00pm - 1:10pm  Introduction – Dr. Jason Frazier, Associate Professor, Pharmacodynamics (Room G-101, HPNP Building)

Levitt Division (20 minute presentations)

1:10pm - 1:30pm  Caitlin Knox
1:30pm - 1:50pm  Wei Liu

Junior Division (15 minute presentations)

1:55pm - 2:10pm  Michelle Suzanne Bousquet
2:10pm - 2:25pm  Marina Kawaguchi-Suzuki
2:25pm - 2:40pm  Luning Zhuang

2:40pm - 2:50pm  BREAK

Senior Division (20 minute presentations)

2:55pm - 3:15pm  Xiaodi Feng
3:15pm - 3:35pm  Rana Montaser
3:35pm - 3:55pm  Lilibeth Salvador

4:00pm - 5:15pm  Keynote Address – Betty B. Yao, PhD, Associate Director, Volwiler Associate Research Fellow, AbbVie, “Seeding in Rich Soil: Early Target Validation Increases the Clinical Probability of Success” (Room G-114, HPNP Building)

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

ORAL COMPETITION

LEVITT DIVISION

#1  Presenter: Caitlin Knox
Department: Pharmaceutical Outcomes and Policy
Research Title: Patient Understanding of Drug Risk: Analysis of Medication Guide Assessments

#2  Presenter: Wei Liu
Department: Pharmaceutical Outcomes and Policy
Research Title: A Large Cohort Study of Nonsteroidal Anti-inflammatory Drugs and Renal Cell Carcinoma Incidence in the National Institutes of Health – AARP Diet and Health Study

JUNIOR DIVISION

#1  Presenter: Michelle Suzanne Bousquet
Department: Medicinal Chemistry
Research Title: Elucidating Activation Pathways of the Antioxidant Response Element Using Chemical and Genomic Approaches

#2  Presenter: Marina Kawaguchi-Suzuki
Department: Pharmacotherapy & Translational Research
Research Title: Chronic Administration of Milk Thistle Does Not Alter CYP1A2, CYP2C9, CYP2D6, and CYP3A4/5 Activities in Healthy Volunteers

#3  Presenter: Luning Zhuang
Department: Pharmaceutics
Research Title: Characterization of in vitro Antimicrobial Activity of Vertilmicin Alone and in Combination with Ceftazidime using Semi-mechanistic Pharmacokinetic/Pharmacodynamic Model

SENIOR DIVISION

#1  Presenter: Xiaodi Feng
Department: Pharmacodynamics
Research Title: Cortisol Increases Activated Caspase-3 in Conductive Cells in the Fetal Heart

#2  Presenter: Rana Montaser
Department: Medicinal Chemistry
Research Title: Structural Characterization, Biological Evaluation and Synthesis of Novel Natural Products from Guamanian Marine Cyanobacteria

#3  Presenter: Lilibeth Salvador
Department: Medicinal Chemistry
Research Title: Potent Elastase Inhibitors from Cyanobacteria: Structural Basis and Mechanisms Mediating Cytoprotective and Anti-Inflammatory Effects in Bronchial Epithelial Cells
# POSTER COMPETITION

## # 1 Assessment of Atenolol Induced HDL-C Change in the Pharmacogenomic Evaluation of Antihypertensive Responses (PEAR) Study

**Presenters:** Caitrin McDonough (Pharmacotherapy & Translational Research/Post-doctoral Fellow)

**Authors:** C McDonough, N Gillis, A Alsultan, S-W Chang, J Lang, M Shahin, M Kawaguchi-Suzuki, T Burford, Y Gong, T Langaee, J Guns, A Chapman, S Turner, R Cooper-DeHoff, J Johnson

## # 2 Predicting Acetaminophen Metabolism and Pharmacokinetics in Children with a Physiologically-based Pharmacokinetic (PBPK) Model

**Presenter:** Xi-Ling Jiang (Center for Pharmacometrics & Systems Pharmacology/Post-doctoral Fellow)

**Authors:** X-L Jiang, P Zhao, L Lesko, S Schmidt

## # 3 A Population Pharmacokinetic and Pharmacodynamic Analysis of Clopidogrel in Healthy Adults – The Impact of CYP2C19 Polymorphism

**Presenter:** Xi-Ling Jiang (Center for Pharmacometrics & Systems Pharmacology/Post-doctoral Fellow)

**Authors:** X-L Jiang, R Horenstein, A Shuldiner, L Lesko, S Schmidt

## # 4 Effect of Quercetin on Mycophenolic Acid Pharmacokinetics

**Presenter:** Mohamed-Eslam F. Mohamed (Pharmacotherapy & Translational Research/Post-doctoral Fellow)

**Authors:** M-E Mohamed, M Segal, J Shuster, R Frye

## # 5 Evaluation of Pharmacy-driven Medication Reconciliation at the University of Florida & Shands Internal Medicine Outpatient Clinic through Retrospective Chart Review

**Presenter:** Danielle Pierini (Pharmacotherapy & Translational Research/Post-doctoral Fellow)

**Authors:** D Pierini, K Vogel-Anderson, E Rosenberg

## # 6 Development of a Semi-Mechanistic Tissue Distribution Population Pharmacokinetic Model for Azithromycin

**Presenter:** Songmao Zheng (Center for Pharmacometrics & Systems Pharmacology/Post-doctoral Fellow)

**Authors:** S Zheng, X Jiang, M Zeitlinger, S Schmidt

## # 7 A Sensitive LC-MS/MS Assay for the Simultaneous Analysis of the Major Active Components of Silymarin in Human Plasma

**Presenter:** Bryan Brinda (Pharmacotherapy & Translational Research/Professional Student)

**Authors:** B Brinda, H Zhu, M Markowitz

## # 8 Determinants of Geographic Variation in Psychiatric Co-morbidities of Children and Adolescents with ADHD

**Presenter:** Amy Kiskaddon (Pharmaceutical Outcomes and Policy/Professional Student)

**Authors:** A Kiskaddon, X Liu, P Kubilis, D Xu, A Winterstein

## # 9 Effects of Pterostilbene on Drug-metabolizing Enzymes

**Presenter:** Chestine Libema (Pharmacotherapy & Translational Research/Post-doctoral Fellow)

**Authors:** C Libema, R Frye

## # 10 Treatment Patterns in Medicaid Youths with Co-morbid ADHD and ODD/CD

**Presenter:** Vaishali Shah (Pharmaceutical Outcomes and Policy/Professional Student)

**Authors:** V Shah, X Liu, A Winterstein

## # 11 Drugs and Genes: A Patient Education Website for Pharmacogenetics

**Presenter:** Danielle Terry (Pharmaceutics/Professional Student)

**Authors:** D Terry, M Irwin

## # 12 Agglomeration Effects from Protein Coating of Silver Nanoparticles in Simulated Gastric Fluid

**Presenter:** Ahmed Sulaiman Alalaiwe (Pharmacotherapy & Translational Research/Graduate Student)

**Authors:** A Alalaiwe, G Hinkley, S Roberts

## # 13 In vitro Modulating Effect of Pterostilbene on Human Cytochrome P450 2C8 (CYP2C8)

**Presenter:** Ahmad Albassam (Pharmacotherapy & Translational Research/Graduate Student)

**Authors:** A Albassam, C Libema, R Frye

## # 14 PK-PD Evaluation of Levofloxacin in vitro- Preliminary Data

**Presenter:** Aline Barth (Pharmaceutics/Graduate Student)

**Authors:** A Barth, R Singh, N Brull, K Reljac, L Klopp-Schulze, C Peloquin, H Derendorf

## # 15 Stimulation of Angiotensin Type 2 Receptor as a Potential Therapy for Pulmonary Hypertension

**Presenter:** Erin Bruce (Pharmacodynamics/Graduate Student)

**Authors:** E Bruce, V Shenoy, J Francis, U Steckelings, T Unger, C Summers, M Raizada, M Katovich
# 16 Age-related Changes in Presynaptic GABA-B Receptor Mediated Inhibitory Tone in the mPFC

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

# 17 Assessment of Biological Activity of *Caesalpinia ferrea* Martius Extracts (Fabales Caesalpiniaceae) against *Leishmania (Viannia) guyanensis* (Kinetoplastida: Trypanosomatidae)

Presenter: Nivea Maria Simoes Falcao (Pharmaceutics/Graduate Student)
Authors: N Falcao, A Franco, C Nunez

# 18 Isoform-selective Glucuronidation of Triclosan

Presenter: Erin Jackson (Medicinal Chemistry/Graduate Student)
Authors: E Jackson, J Schneider, L Rowland-Faux, M James

# 19 Identification of Biomarkers to Target Breast Cancer through Peptoid Library Screening and Microarray Technology

Presenter: Zhuofan Ma (Medicinal Chemistry/Graduate Student)
Authors: G Du, Z Ma, X Qi

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

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

# 21 Evaluating the Elixir of Exclusivity: Evolving Legislation and Novel Complexities within Pediatric Drug Development

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

# 22 VKORC1 Asp36Tyr Geographic Distribution and its Impact on Warfarin Dose Requirements in Egyptians

Presenter: Mohamed Hessam Shahin (Pharmacotherapy & Translational Research/Graduate Student)
Authors: M Shahin, L Cavallari, M Perera, S Khalifi, A Dvorak, T Langae, S Patel, K Perry, D Meltzer, H McLeod, J Johnson

# 23 The Association between Depressive Symptoms and Incident Hypertension among Elderly: The Cardiovascular Health Study

Presenter: Danijela Stojanovic (Pharmaceutical Outcomes and Policy/Graduate Student)
Authors: D Stojanovic, A Hartzema, C Delaney, W Smith

# 24 Population Pharmacokinetics of Pyrazinamide in Patients with Tuberculosis

Presenter: Abdullah Sultan (Pharmacotherapy & Translational Research/Graduate Student)
Authors: A Alsultan, K Dooley, M Weiner, W Whitworth, W MacKenzie, C Peloquin, the Tuberculosis Trials Consortium

# 25 Dosing Strategy for Combination Therapy to Overcome Bacterial Resistance

Presenter: Sherwin Sy (Pharmaceutics/Graduate Student)
Authors: S Sy, L Zhuang, M Mulder, K Löblein, C Lux, M Kissel, M-E Beaudoin, V Schuck, H Derendorf

# 26 Elucidation of the Role of Cystatin C and Associated Proteins in Neuroinflammation

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

# 27 Population Pharmacokinetic/Pharmacodynamic (PK/PD) Assessment of Vancomycin in Adult Patients Indicates Vanishing Appropriateness of Vancomycin Therapy

Presenter: Alexander Voelkner (Pharmaceutics/Graduate Student)
Authors: A Voelkner, C Lebert, H Derendorf
<table>
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<tr>
<th>JUDGES</th>
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<tbody>
<tr>
<td><strong>POSTER COMPETITION</strong></td>
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| Guohua An, PhD  
Assistant Professor  
Pharmaceutics  
College of Pharmacy  
University of Florida |
| Annette de Kloet, PhD  
Post-doctoral Associate  
Physiology and Functional Genomics  
College of Medicine  
University of Florida |
| Yanxia Liu, PhD  
Assistant Scientist  
Medicinal Chemistry  
College of Pharmacy  
University of Florida |
| Drake Morgan, PhD  
Assistant Professor  
Psychiatry  
College of Medicine  
University of Florida |
| Vinayak Shenoy, PhD  
Research Assistant Professor  
Pharmacodynamics  
College of Pharmacy  
University of Florida |
| Betty Yao, PhD  
Associate Director  
AbbVie  
North Chicago, IL |
| **ORAL COMPETITION** |
| Heather Hardin, PharmD  
Clinical Assistant Professor  
Pharmacotherapy & Translational Research  
College of Pharmacy  
University of Florida |
| Matthew Jenkins, PharmD, MS  
Coordinator  
Pharmacy Operations  
SHANDS at the University of Florida  
Gainesville, FL |
| Lori Knackstedt, PhD  
Assistant Professor  
Psychology  
College of Liberal Arts and Sciences  
University of Florida |
| Xin (Cindy) Qi, PhD  
Assistant Professor  
Medicinal Chemistry  
College of Pharmacy  
University of Florida |