

**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 Gums, 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

POSTER COMPETITION (cont.)

- # 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/Professional Student)
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: Ahmed 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 Sumners, M Raizada, M Katovich

POSTER COMPETITION (cont.)

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 Caesalpinaceae) 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 Hossam Shahin (Pharmacotherapy & Translational Research/Graduate Student)
Authors: M Shahin, L Cavallari, M Perera, S Khalifa, 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

POSTER COMPETITION (cont.)

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

JUDGES

POSTER COMPETITION

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