# 20th Annual Research Showcase and Awards Recognition Day

**THURSDAY, FEBRUARY 22**

**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. William Millard, Executive Associate Dean (Room G-112, HPNP Building)

Levitt Division (20 minute presentations)

1:10pm - 1:30pm  Chin-Ying Chen
1:30pm - 1:50pm  Ahunna Onyenwenyi

Junior Division (15 minute presentations)

1:55pm - 2:10pm  Jason Kwan
2:10pm - 2:25pm  Anzeela Schentrup
2:25pm - 2:40pm  Krista Wilson
2:40pm - 2:50pm  BREAK

Senior Division (20 minute presentations)

2:50pm - 3:10pm  Beatrice Nyagode
3:10pm - 3:30pm  Leah Villegas
3:30pm - 3:50pm  Preeti Yadava

4:00pm – 5:00pm  Keynote Address – Richard Lalonde, Pharm.D. “Improved Drug Development Based on Modeling and Simulations” (Room G-101, HPNP Building)

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

ORAL COMPETITION

LEVITT DIVISION

#1  Presenter: Chih-Ying Chen
Department: Pharmacy Health Care Administration
Research Title: Utilization of CNS Stimulants (CNSS) Treatment for Newly Diagnosed ADHD Children

#2  Presenter: Ahunna Onyenwenyi
Department: Pharmacy Health Care Administration
Research Title: Rates of Hypokalemia After Implementation of a More Stringent Insulin Protocol in Critical Care Patients

JUNIOR DIVISION

#1  Presenter: Jason Kwan
Department: Medicinal Chemistry
Research Title: Marine Natural Products for Drug Discovery

#2  Presenter: Anzeela M. Schentrup
Department: Pharmaceutics
Research Title: Arachidonate 5-Lipoxygenase Pathway Gene Polymorphisms Modify Subgroup-dependant Risk of Cardiovascular Events in the International Verapamil SR/Trandolapril Study – Genetic Substudy (INVEST-GENES)

#3  Presenter: Krista Renner Wilson
Department: Medicinal Chemistry
Research Title: Construction and Characterization of Human Melanocortin-2 and -4 Chimeras

SENIOR DIVISION

#1  Presenter: Beatrice A. Nyagode
Department: Medicinal Chemistry
Research Title: What is the Seasoning in your Fillet?

#2  Presenter: Leah R. Villegas
Department: Pharmaceutics
Research Title: Development of Non-viral Gene Therapy Targeting the Insulin-like Growth Factor System for Treatment of Brain Tumors

#3  Presenter: Preeti Yadava
Department: Pharmacodynamics
Research Title: Non-viral siRNA Delivery Systems
# 1 Comparison of Pharmacodynamic Target Attainment of Ertapenem in Healthy Volunteers and Intensive Care Unit Patients Using Monte Carlo Simulations  
Presenter: Vipul Kumar (Pharmaceutics/Post-doctoral Fellow)  
Authors: V Kumar, O Burkhardt, M Pletz, T Welte, H Lode, H Derendorf

# 2 DNA Variations in Voltage-gated Calcium Channel Beta 2 Subunit Gene CACNB2  
Presenter: Yuxin Niu (Pharmacy Practice/Post-doctoral Fellow)  
Authors: Y Niu, J Moss, T Langae, Y Gong, J Johnson

# 3 β2-Adrenergic Receptor Polymorphisms and Antihypertensive Treatment Outcomes in the INternational VErapamil SR/Trandolapril STudy – GENEtic Substudy (INVEST-GENES)  
Presenter: Michael Pacanowski (Pharmacy Practice/Post-doctoral Fellow)  
Authors: M Pacanowski, Y Gong, T Langae, R Cooper-DeHoff, N Schork, C Pepine, J Johnson

# 4 Structure-activity Studies of β-Melanocyte Stimulating Hormone Truncation Peptides at the Melanocortin Receptors  
Presenter: Rachel Witek (Medicinal Chemistry/Post-doctoral Fellow)  
Authors: R Witek, J Schaub, K Wilson, Z Xiang, F Portillo, C Haskell-Luevano

# 5 Alpha 1 Antitrypsin (AAT) Inhibits Granzyme B Activity and NK Cell Killing  
Presenter: Bin Zhang (Pharmaceutics/Post-doctoral Fellow)  
Authors: B Zhang, M Tang, C Waterfall, M Atkinson, M Brantly, S Song

# 6 Systemic Cytokine Balance Differs Between Asthma Patients with and without Positive Response to Adenosine Bronchoprovocation  
Presenter: Courtney Church (Pharmacy Practice/Pharmacy Student)  
Authors: C Church, I Zineh, L Hendeles

# 7 Cholesterol Transporter ABCG8 T400K Gene Variant and Response to Atorvastatin  
Presenter: Jenine Gomez (Pharmacy Practice/Pharmacy Student)  
Authors: J Gomez, G Welder, C Arant, T Wessel, R Schofield, T Langae, I Zineh

# 8 Risk of Diabetes Associated with the KCNJ11 E23K Variant in the INVEST GENEtic Substudy  
Presenter: Daniel Gonzalez (Pharmacy Practice/Pharmacy Student)  
Authors: D Gonzalez, M Pacanowski, J Johnson

# 9 The Influence of CYP2C9 Polymorphisms on In Vitro metabolism of Repaglinide  
Presenter: Jason Karnes (Pharmacy Practice/Pharmacy Student)  
Authors: J Karnes, C Galloway, R Frye

# 10 Analysis of Transfection Efficiency of PGL3 and PGL4.13 Plasmids in HEK293 and PC12 Cell Lines using Various Methods  
Presenter: Nikola Kenjic (Pharmaceutics/Pharmacy Student)  
Authors: N Kenjic, M Weide, J Hughes

# 11 Immunomodulatory Effects of Vaccinium Berry Extract and Astaxanthin on Human Endothelial Cells  
Presenter: Michelle Martone (Pharmacy Practice/Pharmacy Student)  
Authors: M Martone, G Welder, I Zineh

# 12 Discovery of BAY 43-9006 (Nexavar) for the Treatment of Cancer: Key Structure Activity Relationships  
Presenter: Reina Natero (St. Pete Campus/Pharmacy Student)  

# 13 The Solubility of Adenosine-5-Monophate  
Presenter: Nam Nguyen (Pharmaceutics/Pharmacy Student)  
Authors: N Nguyen, M Hassan, L Hendeles, J Hughes

# 14 Genotyping Single Nucleotide Polymorphisms in the Adrenergic Receptor System to Assess Cardiovascular Outcomes in Women  
Presenter: Shantelle Noble (Pharmacy Practice/Pharmacy Student)  
Authors: S Noble, I Zineh, M Pacanowski, J Johnson

# 15 Hepatic Lipase Gene Variation (-514C→T) and Lipid Response to Atorvastatin  
Presenter: Hetain Patel (Pharmacy Practice/Pharmacy Student)  
Authors: H Patel, G Welder, C Arant, T Wessel, R Schofield, I Zineh

# 16 Quality of Vancomycin Use in Patients with AKI in the ICU  
Presenter: Ashley Tyler (Pharmacy Health Care Admin./Pharmacy Student)  
Authors: A Tyler, A Winterstein, A LeClaire, A Onyenwenyi, B Staley, J Layon, A Gabrielli, A Bihorac
# 17 In Vitro and In Vivo Modulation of CXCL5/ENA-78 by Atorvastatin with NOS3-Associated Response Variability
Presenter: Gregory Welder (Pharmacy Practice/Pharmacy Student)
Authors: G Welder, N Chegini, C Arant, T Wessel, T Langaee, R Schofield, I Zineh

# 18 Integrity of siRNA-liposome Complexes after Lyophilization
Presenter: Melissa Gibbs (Pharmaceutics/Pharmacy Student)
Authors: M Gibbs, P Yadava, J Hughes

# 19 Effects of Freeze-Thawing on siRNA Stability
Presenter: Carlos Castro (Pharmaceutics/Pharmacy Student)
Authors: C Castro, M Gibbs, P Yadava, J Hughes

# 20 Presynaptic Inhibition of Excitatory Afferents to Hilar Mossy Cells
Presenter: Chinki Bhatia (Pharmacodynamics/Graduate Student)
Authors: B Nahir, C Bhatia, C Frazier

# 21 NO-Induced Increases in Outflow Facility Correlate with Decreases in TM Cell Volume
Presenter: William Dismuke (Pharmacodynamics/Graduate Student)
Authors: W Dismuke, C Mbadugha, D Ellis

# 22 Determination of Desethylamodiaquine by Liquid Chromatography Tandem Mass Spectrometry: Application to Cytochrome P450 2C8 Studies in Human Liver Microsomes
Presenter: Prajakta Dravid (Pharmaceutics/Pharm. Practice/Graduate Student)
Authors: P Dravid, R Frye

# 23 Monitoring Glucose Regulation Parameters in Veterans Living with Schizophrenia-related Disorders and Switched from One Second-Generation Antipsychotic to Another
Presenter: Patrick Garman (Pharmacy Health Care Admin./Graduate Student)
Authors: P Garman, L Ried, M Bengtson, C Hsu

# 24 Simultaneous Determination of Dexamethasone, Dexamethasone 21-acetate and Paclitaxel in Simulated Biological Matrix by RP-HPLC: Assay Development and Validation
Presenter: Navin Goyal (Pharmaceutics/Graduate Student)
Authors: N Goyal, A Achchabi, E Goldberg, G Hochhaus

# 25 Effect of Alpha 1 Antitrypsin (AAT) on Murine Collagen Induced Arthritis
Presenter: Christian Grimstein (Pharmaceutics/Graduate Student)
Authors: C Grimstein, Y-K Choi, S Song

# 26 Evaluation of Anxiolytic-like Activity of an Extract and Fractions Prepared from Apocynum Venetum in the Elevated Plus Maze Test in Mice
Presenter: Oliver Grundmann (Pharmaceutics/Graduate Student)
Authors: O Grundmann, J Nakajima, C Michalski, A Pomereneke, S Seo, V Butterweck

# 27 Bone Marrow Cell-based and Viral Vector-mediated Gene Therapy for Alpha-1 Antitrypsin Deficiency
Presenter: Hong Li (Pharmaceutics/Graduate Student)
Authors: H Li, S Song

# 28 Lipid Profile Monitoring in Veterans Living with Schizophrenia-related Disorders and Treatment with Switching Second Generation Antipsychotics
Presenter: Chienning Hsu (Pharmacy Health Care Admin./Graduate Student)
Authors: C Hsu, L Ried, M Bengtson, P Garman

# 29 Treatment Initiation of Antiviral Therapy for Hepatitis C Patients Enrolled in Florida Medicaid
Presenter: Chienning Hsu (Pharmacy Health Care Admin./Graduate Student)
Authors: C Hsu, T Kauf, E Lipowski

# 30 HPLC Validate the Results of Voriconazole Time-kill and Postantifungal Effects (PAFE) Experiments against Candida Species
Presenter: Yanjun Li (Pharmaceutics/Graduate Student)
Authors: Y Li, C Clancy, M Nguyen, H Derendorf

# 31 High Temporal Resolution of Amino Acid Levels in Rat Nucleus Accumbens During Operant Ethanol Self Administration
Presenter: Zhimin Li (Pharmacodynamics/Graduate Student)
Authors: Z Li, A Zharikova, J Bastian, L Esperon, B Jowers, J Peris

# 32 Role of Mineralocorticoid Receptors in Regulation of Cortisol, Electrolytes, and Blood Pressure in Pregnancy
Presenter: Melissa Lingis (Pharmacodynamics/Graduate Student)
Authors: M Lingis, M Keller-Wood
POSTER COMPETITION (cont.)

# 33 Preparation and Characterization of Corticosteroid Nanoparticles for Intravitreal Delivery
Presenter: Keerti Mudunuri (Pharmaceutics/Graduate Student)
Authors: K Mudunuri, G Hochhaus

# 34 Inhalable Nanoparticles for Asthma Therapy
Presenter: Gina Patel (Pharmaceutics/Graduate Student)
Authors: G Patel, G Hochhaus

# 35 Characterization of Loteprednol Etabonate Microspheres
Presenter: Elanor Pinto (Pharmaceutics/Graduate Student)
Authors: E Pinto, G Hochhaus

# 36 Liver X Receptor-α (LXRA) Gene Polymorphism and Variable CRP Response to Statins
Presenter: Elvin Price (Pharm. Practice/Pharmaceutics/Graduate Student)
Authors: E Price, L Mangravite, R Krauss, I Zineh

# 37 Structure-activity Relationship Studies of the Mouse Melanocortin-3 Receptor by Site-directed Mutagenesis
Presenter: Bettina Proneth (Medicinal Chemistry/Graduate Student)
Authors: B Proneth, Z Xiang, W Millard, S Litherland, C Haskell-Luevano

# 38 Effects of 17-beta-estradiol on Cardiac Remodeling in the DOCA-salt Model of Hypertension
Presenter: Yanfei Qi (Pharmacodynamics/Graduate Student)
Authors: Y Qi, V Shenoy, J Machado, T Bolton, J Grobe, M Katovich

# 39 Pharmacokinetics of Luteolin and its Metabolite
Presenter: Sasiporn Sarawek (Pharmaceutics/Graduate Student)
Authors: S Sarawek, H Derendorf, V Butterweck

# 40 Linezolid vs. MRSA-A new PK/PD Model
Presenter: Stephan Schmidt (Pharmaceutics/Graduate Student)
Authors: S Schmidt, H Derendorf

# 41 Prevention of Angiotensin II-induced Cardiac Remodeling by Angiotensin-(1-7)
Presenter: Vinayak Shenoy (Pharmacodynamics/Graduate Student)
Authors: V Shenoy, J Grobe, A Mecca, M Lingis, T Bolton, J Machado, R Speth, M Raizada, M Katovich

POSTER COMPETITION (cont.)

# 42 Prevention of Kidney Stone Formation by Ammi Visnaga L
Presenter: Pattaraporn Vanachayangkul (Pharmaceutics/Graduate Student)
Authors: P Vanachayangkul, K Byer, S Khan, V Butterweck

# 43 A Novel Pharmacokinetic/Pharmacodynamic (PK/PD) Approach to Predict Total Prednisolone Concentrations in Human Plasma
Presenter: Jian Xu (Pharmaceutics/Graduate Student)
Authors: J Xu, J Winkler, H Derendorf
POSTER COMPETITION JUDGES

Vikram Arya, Ph.D.
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