

# 20<sup>TH</sup> ANNUAL RESEARCH SHOWCASE AND AWARDS RECOGNITION DAY

THURSDAY, FEBRUARY 22<sup>ND</sup>, 2007



UNIVERSITY OF FLORIDA  
COLLEGE OF PHARMACY

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Berlin, Germany; Class of 2004

## 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

## POSTER COMPETITION

- # 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  $\beta_2$ -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  $\beta$ -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 Wasserfall, 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

## POSTER COMPETITION (cont.)

- # 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)  
Authors: R Natero, D Bankston, J Barbosa, D Brittelli, Y Caringal, R Carlson, J Dumas, T Gane, S Heald, B Hibner, J Johnson, M Katz, N Kennure, J Kingery-Wood, W Lee, X Liu, T Lowinger, I McAlexander, M Monahan, U Khire, J Renick, B Riedl, H Rong, R Sibley, R Smith, D Wolanin
- # 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

## POSTER COMPETITION (cont.)

**# 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 Langae, 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

## POSTER COMPETITION (cont.)

**# 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 Pomeranke, 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- $\alpha$  (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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