

21st ANNUAL RESEARCH SHOWCASE AND AWARDS RECOGNITION DAY

THURSDAY, FEBRUARY 21st, 2008



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 Chienning Hsu
1:30pm - 1:50pm Michael Mueller

Junior Division (15 minute presentations)

1:55pm - 2:10pm Jason Kwan
2:10pm - 2:25pm Huong Le
2:25pm - 2:40pm Zhaohua Wang

2:40pm - 2:50pm **BREAK**

Senior Division (20 minute presentations)

2:50pm - 3:10pm Christian Grimstein
3:10pm - 3:30pm Zhimin Li
3:30pm - 3:50pm Anzeela Schentrup

4:00pm – 5:00pm **Keynote Address** – Marcus Brewster, Ph.D., Distinguished Research Fellow at Johnson Pharmaceutical Research and Development; Head, ChemPharm Research & Early Development; Chief Scientific Officer for the Chemical & Pharmaceutical Division. “*Drug Delivery and Formulation for Challenging Pipelines – A Personal Perspective*” (Room G-112, HPNP Building)

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

ORAL COMPETITION

LEVITT DIVISION

#1 Presenter: **Chienning Hsu**
Department: Pharmaceutical Outcomes and Policy
Research Title: The Impact of Medication Adherence on Cost Effectiveness of Anti-HCV Therapy among Patients with HCV Infection

#2 Presenter: **Michael Mueller**
Department: Pharmaceutical Outcomes and Policy
Research Title: Family Caregiver Quality of Life – The Impact of Demands of Caregiving, Medication Administration and Stress in a Pediatric Oncology Setting

JUNIOR DIVISION

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

#2 Presenter: **Huong Le**
Department: Pharmaceutics
Research Title: Design and Characterization of Polymeric Nanoparticles Containing Conjugated Phospholipase A₂ for Non-viral Gene Delivery

#3 Presenter: **Zhaohua Wang**
Department: Pharmaceutics
Research Title: Memory Improvement in the APP/PS1 Mice Model through AAV 8 Gelsolin Delivery

SENIOR DIVISION

#1 Presenter: **Christian Grimstein**
Department: Pharmaceutics
Research Title: Protein and Gene Therapy for Rheumatoid Arthritis: Protease Inhibitor Alpha 1 Antitrypsin (AAT) Suppresses Experimental Arthritis in Mouse Model

#2 Presenter: **Zhimin Li**
Department: Pharmacodynamics
Research Title: Neuronal Mechanisms of Increasing Motivation of Operant Ethanol Self-administration Caused by Intermittent Binge Exposures

#3 Presenter: **Anzeela Schentrup**
Department: Pharmacy Practice
Research Title: Development of a Medium-throughput Genotyping Assay for a Tandem Repeat Promoter Polymorphism in *ALOX5* and its Application in the International Verapamil SR/Trandolapril Study – GENETic Substudy (INVEST-GENES)

POSTER COMPETITION

1 Genome-wide Overexpression Screen for Activators of the Antioxidant Response Element

Presenter: Yanxia Liu (Medicinal Chemistry/Post-doctoral Fellow)
Authors: Y Liu, J Kern, J Walker, J Johnson, P Schultz, H Luesch

2 In Vitro Anti-cancer Activity and Preparation of Paclitaxel Loaded Cationic Micelles

Presenter: Guoqin Niu (Pharmaceutics/Post-doctoral Fellow)
Authors: G Niu, S Sullivan, J Hughes

3 NOS3 Polymorphisms do not Associate with Adverse Clinical Outcomes in Elderly Hypertensives with Coronary Artery Disease: Analysis of the International Verapamil SR/Trandolapril Study – GENETic Substudy (INVEST-GENES)

Presenter: Michael Pacanowski (Pharmacy Practice/Post-doctoral Fellow)
Authors: M Pacanowski, I Zineh, G Welder, J Adicks, R Cooper-DeHoff, C Pepine, J Johnson

4 POPPK of a Bradykinin Beta2-receptor Antagonist in Phase I and II Studies to Treat Hereditary Angioedema

Presenter: Sreedharan Sabarinath (Pharmaceutics/Post-doctoral Fellow)
Authors: S Sabarinath, N Goyal, H Derendorf

5 Antibiotic Utilization and Resistance Trends within an Institution: Results of the Antimicrobial Resistance Management (ARM) Program

Presenter: Steven Smith (Pharmacy Practice/Post-doctoral Fellow)
Authors: S Smith, S Anderson, J Gums, V Ng

6 Adeno-associated Viral Vector-mediated Glucagon-like Peptide 1 Gene Therapy Improves Glucose Metabolism in Type 2 Diabetic (db/db) Mice

Presenter: Bin Zhang (Pharmaceutics/Post-doctoral Fellow)
Authors: B Zhang, Y Lu, S Song

7 CYP3A5 Polymorphism and Cardiovascular Outcomes in International Verapamil SR/Trandolapril Study (INVEST)

Presenter: Tolulope Akinbo (Pharmacy Practice/Pharmacy Student)
Authors: T Akinbo, T Langae, Y Gong, H Feng, J Johnson

8 Quality of Oral Anticoagulation in a Pharmacy-managed Anticoagulation Clinic

Presenter: Samantha Barfield (Pharmacy Practice/Pharmacy Student)
Authors: S Barfield, B Epstein

POSTER COMPETITION (cont.)

9 The Effects of 5HT-2C Agonists on Behavioral Sensitization to Repeated Cocaine Exposure in Rats

Presenter: Kathy Boles (Pharmacodynamics and Medicinal Chemistry/ Pharmacy Student)
Authors: K Boles, S-H Huang, A Zharikova, Z Sun, J Kasper, D Morgan, R Booth, J Peris

10 Hepatitis C Virological Response from Rapid Therapy of Twelve-week vs. Twenty-four Week Treatment: A Systematic Review

Presenter: Abigail Dee (Pharmaceutical Outcomes and Policy/Pharmacy Student)
Authors: A Dee, T Kauf

11 Changes in Coenzyme Q10 (CoQ10) Following High-dose Atorvastatin Therapy

Presenter: Osatohanmen Enogieru (Pharmacy Practice/ Pharmacy Student)
Authors: O Enogieru, M Pacanowski, R Frye, I Zineh

12 Aromatase Gene Polymorphisms and Cardiovascular Disease Outcomes

Presenter: Megan Harnes (Pharmacy Practice/Pharmacy Student)
Authors: M Harnes, G Welder, J Wittmann, R Cooper-DeHoff, C Pepine, J Johnson, A Beitelshes

13 Determination of Mycophenolic Acid Phenolic Glucuronide in Microsomal Incubates using High Performance Liquid Chromatography-tandem Mass Spectrometry

Presenter: Stephen Harvey (Pharmacy Practice/Pharmacy Student)
Authors: S Harvey, M Mohamed, R Frye

14 MADD Variants and Risk of Cardiovascular Events in the International Verapamil SR/Trandolapril Study – GENETic Substudy (INVEST-GENES)

Presenter: Michael Martin (Pharmacy Practice/Pharmacy Student)
Authors: M Martin, E Price, M Pacanowski, R Cooper-DeHoff, C Pepine, J Johnson, I Zineh

15 Potential Involvement of GABA Receptors on Dieldrin-induced Microglial ROS Production

Presenter: Jeanette Polcz (Pharmacodynamics/Pharmacy Student)
Authors: J Polcz, H Mao, B Liu

POSTER COMPETITION (cont.)

16 *LTC4S* Genotype Confers a Reduced Risk for Development of Non-obstructive Coronary Artery Disease and Cardiovascular Events in Women

Presenter: Stephanie Roberts (Pharmacy Practice/Pharmacy Student)
Authors: S Roberts, A Schentrup, D Johnson, R Cooper-DeHoff, C Pepine, J Johnson

17 Incidence of Intra-operative Vasoplegic Syndrome during Surgery Requiring Extra-corporeal Circulation

Presenter: Harmony Schneider (Pharmaceutical Outcomes and Policy/Pharmacy Student)
Authors: H Schneider, A Winterstein, G Janelle, T Beaver

18 Atorvastatin Regulates Global Inflammatory and Anti-inflammatory Gene Expression in Human Endothelial Cells

Presenter: Gregory Welder (Pharmacy Practice/Pharmacy Student)
Authors: G Welder, I Zineh

19 Effect of a UCP2 Promoter Polymorphism on Death and Nonfatal Cardiovascular Outcomes in Stable Coronary Artery Disease Individuals with Hypertension: An INVEST-GENES Analysis

Presenter: Gregory Welder (Pharmacy Practice/Pharmacy Student)
Authors: G Welder, R Cooper-DeHoff, C Pepine, J Johnson, A Beitelshees

20 Impact of Ramipril on Basal Secretion of Angiogenic Factors and Nitric Oxide Pathway Gene Regulation in Human Endothelial Cells

Presenter: Gregory Welder (Pharmacy Practice/Pharmacy Student)
Authors: G Welder, M Hames, I Zineh, A Beitelshees

21 Soft Tissue Penetration of an Investigational Antibiotic in Healthy Volunteers

Presenter: April Barbour (Pharmaceutics/Graduate Student)
Authors: A Barbour, S Schmidt, S Sabarinath, M Grant, C Seubert, H Derendorf

22 Use of Magnetoliposomes for the Selective Removal of Amyloid- β

Presenter: Megan Bevis (Pharmaceutics/Graduate Student)
Authors: M Bevis, R Mesaros, J Hughes

23 Telmisartan Induced Changes in Nitric Oxide Signaling Pathway Genes in Endothelial Cells

Presenter: Heather Marie Davis (Pharmacy Practice/Graduate Student)
Authors: H Davis, G Welder, A Beitelshees

POSTER COMPETITION (cont.)

24 BKca Channels Mediate the NO-induced Decreases in Human Trabecular Meshwork Cell Volume

Presenter: William Dismuke (Pharmacodynamics/Graduate Student)
Authors: W Dismuke, D Ellis

25 Leukocyte Expression of Atherosclerosis-related Genes in Response to Atorvastatin Differs by CYP3A5 Genotype

Presenter: Julio Duarte (Pharmacy Practice/Graduate Student)
Authors: J Duarte, G Welder, I Zineh

26 POPPK – Answering Decade Old Question of Bioequivalence of Inhaled Corticosteroids

Presenter: Navin Goyal (Pharmaceutics/Graduate Student)
Authors: N Goyal, S Sabarinath, G Hochhaus

27 Prevention of Respiratory Syncytial Virus Infections in Florida

Presenter: Christian Hampp (Pharmaceutical Outcomes and Policy/Graduate Student)
Authors: C Hampp, A Winterstein, A Saidi

28 Preparation and Characterization of Polymeric Microparticles Containing Triamcinolone Acetonide for Biological Applications

Presenter: AM Mahbub Hassan (Pharmaceutics/Graduate Student)
Authors: A Hassan, J Hughes

29 Depolarization Induced Suppression of Excitation in CA3 Pyramidal Cells

Presenter: Mackenzie Hofmann (Pharmacodynamics/Graduate Student)
Authors: M Hofmann, C Frazier

30 Effects of PAT, a Novel 5HT₂ Receptor Modulator, on Extracellular Neurotransmitter Levels in Rat Nucleus Accumbens During Cocaine Administration

Presenter: James Kasper (Pharmacodynamics/Graduate Student)
Authors: J Kasper, L Tristani, A Zharikova, Z Li, Z Sun, J Bastian, R Booth, J Peris

31 Design and Characterization of Polymeric Nanoparticles Containing Conjugated Phospholipase A₂ for Non-viral Gene Delivery

Presenter: Huong Le (Pharmaceutics/Graduate Student)
Authors: H Le, A Burzynski, J Hughes

POSTER COMPETITION (cont.)

- # 32 Adult Stem Cell Mediated Gene Therapy for Alpha 1-Antitrypsin Deficiency**
Presenter: Hong Li (Pharmaceutics/Graduate Student)
Authors: H Li, Y Lu, B Zhang, B Petersen, S Song
- # 33 Triclosan is a Potent Inhibitor of Estradiol and Estrone Sulfation in the Sheep Placenta**
Presenter: Wenjun Li (Medicinal Chemistry/Graduate Student)
Authors: W Li, D Summerlot, C Wood, M Keller-Wood, M James
- # 34 Applying PK/PD Mathematical Model to Characterize Voriconazole-Candida Interactions**
Presenter: Yanjun Li (Pharmaceutics/Graduate Student)
Authors: Y Li, C Clancy, N-H Nguyen, H Derendorf
- # 35 Muscarinic Modulation of Fast GABergic Synaptic Transmission in the Rat Dentate Gyrus**
Presenter: Casie Lindsly (Pharmacodynamics/Graduate Student)
Authors: C Lindsly, C Frazier
- # 36 PK/PD of the Development of Physical Dependence of Fentanyl in Rats**
Presenter: Jiang Liu (Pharmaceutics/Graduate Student)
Authors: J Liu, H Derendorf
- # 37 Characterization of Manganese-induced Microglial Release of Hydrogen Peroxide**
Presenter: Yue Liu (Pharmacodynamics/Graduate Student)
Authors: Y Liu, P Zhang, B Liu
- # 38 Synergistic Microglial Reactive Oxygen Species Generation by Pesticide**
Presenter: Haoyu Mao (Pharmacodynamics/Graduate Student)
Authors: H Mao, B Liu
- # 39 Effect of Ginkgo Biloba and Valerian Root Extracts on Mycophenolic Acid Glucuronide Formation in Human Liver Microsomes**
Presenter: Mohamed E. Mohamed (Pharmacy Practice/Graduate Student)
Authors: M Mohamed, S Harvey, R Frye
- # 40 Intravitreal Delivery of Corticosteroid Nanoparticles**
Presenter: Keerti Mudunuri (Pharmaceutics/Graduate Student)
Authors: K Mudunuri, G Hochhaus

POSTER COMPETITION (cont.)

- # 41 CACNA1C Polymorphisms and Cardiovascular Outcomes in the International Verapamil SR/Trandolapril Study – GENetic Substudy (INVEST-GENES)**
Presenter: Hrishikesh Navare (Pharmacy Practice/Graduate Student)
Authors: H Navare, A Beitelshes, Y Gong, T Langae, R Cooper-DeHoff, C Pepine, J Johnson
- # 42 Loading of Triamcinolone Acetonide into CaCo3 Microparticles and Encapsulation by Polyelectrolyte Multilayer Films for Sustained Delivery**
Presenter: Akshata Nevrekar (Pharmaceutics/Graduate Student)
Authors: A Nevrekar, J Hughes
- # 43 Inhalable Nanoparticles for Asthma Therapy**
Presenter: Gina Patel (Pharmaceutics/Graduate Student)
Authors: G Patel, G Hochhaus
- # 44 Sustained Release PLA Microsphere Formulations of an Immunosuppressant for Islet Cell Transplantation**
Presenter: Elanor Pinto (Pharmaceutics/Graduate Student)
Authors: E Pinto, B Zhang, S Song, N Bodor, P Buchwald, A Pileggi, G Hochhaus
- # 45 Pleiotropic Effects of Fenofibrate on the Human Endothelium**
Presenter: Elvin Price (Pharmacy Practice/Graduate Student)
Authors: E Price, G Welder, I Zineh
- # 46 Liver X Receptor- α Gene Variability and Cardiovascular Risk in the International Verapamil SR/Trandolapril Study – GENetic Substudy (INVEST-GENES)**
Presenter: Elvin Price (Pharmacy Practice/Graduate Student)
Authors: E Price, M Martin, M Pacanowski, R Cooper-DeHoff, C Pepine, J Johnson, I Zineh
- # 47 Overexpression of Angiotensin II Type 2 Receptor (AT2R) in Neonatal Cardiomyocytes Induces Apoptosis**
Presenter: Yanfei Qi (Pharmacodynamics/Graduate Student)
Authors: Y Qi, H Li, A Mecca, V Shenoy, C Sumners, M Katovich
- # 48 Effects of Nicotinic Receptor Gene Delivery on Tropic Factor Processes**
Presenter: Yan Ren (Pharmaceutics/Graduate Student)
Authors: Y Ren, J Hughes, E Meyer

POSTER COMPETITION (cont.)

- # 49 Protein Binding – A Source for Many Pitfalls**
Presenter: Stephan Schmidt (Pharmaceutics/Graduate Student)
Authors: S Schmidt, M Sahre, H Derendorf
- # 50 Synergistic Dopaminergic Neurotoxicity of OCPs: Relevance to the Multifactorial Etiology of Parkinson's Disease**
Presenter: Heera Sharma (Pharmacodynamics/Graduate Student)
Authors: H Sharma, P Zhang, B Liu
- # 51 Overexpression of Angiotensin (1-7) Fusion Protein Attenuates Monocrotaline (MCT) Induced Pulmonary Hypertension**
Presenter: Vinayak Shenoy (Pharmacodynamics/Graduate Student)
Authors: V Shenoy, A Ferreira, Y Qi, K Dodies, M Raizada, M Katovich
- # 52 Discovery of Structurally Diverse Natural Products from Marine Cyanobacteria through Phenotypic and Target-based Screening**
Presenter: Kanchan Taori (Medicinal Chemistry/Graduate Student)
Authors: K Taori, V Paul, H Luesch
- # 53 Memory Improvement in the APP/PS1 Mice Model through AAV-8 Gelsolin Delivery**
Presenter: Zhaohua Wang (Pharmaceutics/Graduate Student)
Authors: Z Wang, J Hughes
- # 54 Evaluation of Proarrhythmic Risk with Concentration-QT Analysis: New FDA Recommended Approach**
Presenter: Jian Xu (Pharmaceutics/Graduate Student)
Authors: J Xu, H Derendorf

JUDGES

POSTER COMPETITION

- Amber Beitelshes, Ph.D.**
Assistant Professor
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- Debbie Wilson, Ph.D.**
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Rehabilitation Outcomes Research Center
N Florida/S Georgia Veterans Health System
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ORAL COMPETITION

- Marcus Brewster, Ph.D.**
Head, ChemPharm Research and
Early Development - EU
Scientific Officer, Chemical and
Pharmaceutical Development
Belgium
- Shashank Rohatagi, Ph.D.**
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