21st ANNUAL RESEARCH SHOWCASE AND AWARDS RECOGNITION DAY

THURSDAY, FEBRUARY 21st, 2008

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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 is ALOX5 and its Application in the INternational VErapamil SR/Trandoalpril 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 PaclitaxelLoaded 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/Trandoalpril 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/Trandoalpril STudy (INVEST)
Presenter: Toluolope 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 Beitslehs

# 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/Trandoalpril 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

### # 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 Cortocosteroid 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/Trandoalpril STudy – GENEtic Substudy (INVEST-GENES)
Presenter: Hrishikesh Navare (Pharmacy Practice/Graduate Student)
Authors: H Navare, A Beitesleshees, Y Gong, T Langaeae, 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/Trandoalpril 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 Trophic Factor Processes
Presenter: Yan Ren (Pharmaceutics/Graduate Student)
Authors: Y Ren, J Hughes, E Meyer
# 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 Monocrotaune (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 Beitelshees, Ph.D.  
Assistant Professor  
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