

**18TH ANNUAL RESEARCH
SHOWCASE AND AWARDS
RECOGNITION DAY**

THURSDAY, APRIL 14, 2005



**UNIVERSITY OF FLORIDA
COLLEGE OF PHARMACY**

**A SPECIAL THANKS TO
THIS YEAR'S SPONSORS OF OUR
18TH ANNUAL RESEARCH SHOWCASE**

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SCHEDULE OF EVENTS

8:00am - 9:15am Set-up – Poster Presentations (Reception Hall)

POSTER COMPETITION

9:15am - 11:30am **Poster Competition** – Students Present for Judging (Reception Hall)

11:45am - 12:45pm **Luncheon** – Poster and Oral Judges (Dean's Conference Room, Room 4307)

ORAL COMPETITION

12:50pm - 1:00pm **Introduction** – Dr. William Millard, Executive Associate Dean (Room G-103)

Levitt Division (20 minute presentations)

1:00pm - 1:20pm Tobias Gerhard

1:20pm - 1:40pm Michael Taylor

Junior Division (15 minute presentations)

1:45pm - 2:00pm Wouter Driessen

2:00pm - 2:15pm Bettina Proneth

2:15pm - 2:30pm James Sacco

2:35pm - 2:50pm **BREAK**

Senior Division (20 minute presentations)

2:50pm - 3:10pm Boman Irani

3:10pm - 3:30pm Ke Ren

3:30pm - 3:50pm Aleksandar Todorovic

4:00pm - 5:00pm **Keynote Speaker** – Dr. Eric Tomlinson (Room G-103)

5:00pm - 7:00pm **Awards Reception** – Announcement of Winners (Reception Hall)

ORAL COMPETITION

LEVITT DIVISION

#1 Presenter: **Tobias Gerhard**
Department: Pharmacy Health Care Administration
Research Title: Potential Benefit of Nesiritide after Adult Open Heart Surgery.

#2 Presenter: **Michael Taylor**
Department: Pharmacy Health Care Administration
Research Title: Clinical and Economic Outcomes of Prostate Cancer Treatment Strategies.

JUNIOR AWARD

#1 Presenter: **Wouter Driessen**
Department: Pharmaceutics
Research Title: Development of Peptide-targeted Lipoplex for Systemic Administration.

#2 Presenter: **Bettina Proneth**
Department: Medicinal Chemistry
Research Title: Characterization of Melanocortin-4-Receptor Mutations Associated with Severe Human Obesity.

#3 Presenter: **James Sacco**
Department: Medicinal Chemistry
Research Title: Sulfonation of Environmental Chemicals and Their Metabolites in the Polar Bear (*Ursus Maritimus*).

SENIOR DIVISION

#1 Presenter: **Boman Irani**
Department: Medicinal Chemistry
Research Title: *In Vivo* Feeding Effects of Melanocortin Ligands Possessing Mixed Pharmacology at the Melanocortin 3 and 4 Receptors.

#2 Presenter: **Ke Ren**
Department: Pharmaceutics
Research Title: Mechanisms Underlying $\alpha 7$ Nicotinic Receptor Mediated Cytoprotection.

#3 Presenter: **Aleksandar Todorovic**
Department: Medicinal Chemistry
Research Title: Discovery of Potent mMC1R Agonists with Prolonged Activity at Human Melanocytes.

POSTER COMPETITION

#1 Variable Blood Pressure Response to Verapamil by KCNMB1 Genotype.

Presenter: Amber Beitelshes (Pharmacy Practice/Postdoctoral Fellow)
Authors: A Beitelshes, Y Gong, R Cooper-Dehoff, J Moss, C Pepine, J Johnson

#2 Penetration of Ertapenem into Different Pulmonary Compartments of Patients Undergoing Lung Surgery.

Presenter: Olaf Burkhardt (Pharmaceutics/Postdoctoral Fellow)
Authors: O Burkhardt, J Majcher-Peszynska, H Derendorf, T Welte

#3 Effects of Enteral Feeding on the Oral Bioavailability of Moxifloxacin in Healthy Volunteers.

Presenter: Olaf Burkhardt (Pharmaceutics/Postdoctoral Fellow)
Authors: O Burkhardt, H Stass, H Derendorf, T Welte

#4 Effect of Hepatocyte Division on rAAV DNA Persistence.

Presenter: Young-Kook Choi (Pharmaceutics/Postdoctoral Fellow)
Authors: Y-K Choi, Y Lu, S Song

#5 DNA Repair Enzyme (DNA-PKcs) Enhances rAAV Replication.

Presenter: Young-Kook Choi (Pharmaceutics/Postdoctoral Fellow)
Authors: Y-K Choi, I Zolotukhin, B Byrne, S Song

#6 Population Dose-response Modeling for Albuterol in Asthmatics.

Presenter: Rajanikanth Madabushi (Pharmaceutics/Postdoctoral Fellow)
Authors: R Madabushi, K Blake, H Derendorf

#7 Population Pharmacokinetic Analysis of Digoxin in Egyptian Pediatric Patients with Heart Failure.

Presenter: Rajanikanth Madabushi (Pharmaceutics/Postdoctoral Fellow)
Authors: R Madabushi, V Bhattaram, E Desoky, H Derendorf

#8 Evaluation of a Novel Regulable AAV Vector for AAT Gene Therapy.

Presenter: Yuan-Qing Lu (Pharmaceutics/Postdoctoral Fellow)
Authors: Y-Q Lu, K Lowe, S Song

POSTER COMPETITION (cont.)

#9 Cost Effectiveness of HIV Treatment Innovations with Greater Efficacy than Highly-active Antiretroviral Therapy (HAART)

Presenter: Sonya Snedecor (Pharmacy Health Care Admin/Postdoctoral Fellow)
Authors: S Snedecor, A Hartzema, C Schiller

#10 Effect of Dieldrin on Superoxide Production in Primary Rat Microglia.

Presenter: Xi Fang (Pharmacodynamics/Postdoctoral Fellow)
Authors: X Fang, B Liu

#11 Beta 2-adrenergic Receptor (B2AR) Polymorphisms and Antihypertensive Response to Beta-blocker Therapy in the Invest Trial.

Presenter: Yan Gong (Pharmacy Practice/Postdoctoral Fellow)
Authors: Y Gong, A Beitelshes, L Stauffer, H Yarandi, T Langae, R Cooper-DeHoff, C Pepine, J Johnson

#12 Sulfotransferase 2A1 Forms Estradiol-17-sulfate and Celecoxib Switches the Dominant Product from Estradiol-3-sulfate to Estradiol-17-sulfate.

Presenter: Li-Quan Wang (Medicinal Chemistry/Postdoctoral Fellow)
Authors: LQ Wang, M James

#13 Conformational Studies of Agouti Related Protein (AGRP)-melanocortin Chimeric Peptides.

Presenter: Andrzej Wilczynski (Medicinal Chemistry/Postdoctoral Fellow)
Authors: A Wilczynski, K Wilson, J Scott, A Edison, C Haskell-Luevano

#14 Gene Expression and Regulation of Alpha-1 Antitrypsin in Pancreatic Islets.

Presenter: Bin Zhang (Pharmaceutics/Postdoctoral Fellow)
Authors: B Zhang, G Zhao, M Campbell-Thompson, S Song

#15 Evaluation of Novel Anti-inflammatory Activity of Sigma Receptor Ligands in Brain Immune Cells.

Presenter: Angela Hatter (Pharmacodynamics/Pharmacy Student)
Authors: A Hatter, T Wong, F Berardi, B Liu

#16 Vitamin K Epoxide Reductase Polymorphisms Rare in Warfarin-treated Population.

Presenter: Katherine Gaston (Pharmacy Practice/Pharmacy Student)
Authors: K Gaston, C Aquilante, T Langae, L Lopez, J Johnson

POSTER COMPETITION (cont.)

#17 Gene Delivery Using Magnetofection.

Presenter: Michael Kritzer (Pharmaceutics/Pharmacy Student)
Authors: M Kritzer, G Rao, J Hughes

#18 Novel Gene Therapy for Alzheimer's Disease.

Presenter: Alison Schwein (Pharmaceutics/Pharmacy Student)
Authors: A Hirko, J Hughes, A Schwein

#19 A Retrospective Study of Drotrecogin Alfa (activated) for the Treatment of Severe Sepsis.

Presenter: Stormy Uy (St. Pete Campus/Pharmacy Student)
Authors: S Uy, E Alexander

#20 Impact of High Dose Atorvastatin on C-reactive Protein and IL-1 Receptor Antagonist Concentrations in Normocholesterolemic Women.

Presenter: Gregory Welder (Pharmacy Practice/Pharmacy Student)
Authors: G Welder, T Wessel, C Arant, R Schofield, I Zineh

#21 Psychometric Scales to Assess Entrepreneurial Interests of Pharmacists and Student Pharmacists.

Presenter: Amanda Ballentine (Pharmacy Health Care/Graduate Student)
Authors: A Ballentine, E Lipowski, F Simon, C Velozo

#22 Variation of Flavonoids and Furanocoumarins in Grapefruit-juice: A Source of Variability in Grapefruit-drug Interactions Studies.

Presenter: Whocely Victor de Castro (Pharmaceutics/Graduate Student)
Authors: W de Castro, S Talcott-Mertens, A Rubner, V Butterweck, H Derendorf

#23 Determination of Chlorzoxazone in Plasma and Urine by Liquid Chromatography Tandem Mass Spectrometry: Application to CYP2E1 Phenotyping Studies.

Presenter: Prajakta Dravid (Pharmaceutics/Pharmacy Practice/Graduate Student)
Authors: P Dravid, R Frye

#24 Anxiolytic and Antioxidant Activities of Apocynum Venetum L.

Presenter: Oliver Grundmann (Pharmaceutics/Graduate Student)
Authors: O Grundmann, S Mertens-Talcott, V Butterweck

POSTER COMPETITION (cont.)

#25 rAAV2 Transcytosis Through Caco-2 Cells.

Presenter: Hong Li (Pharmaceutics/Graduate Student)
Authors: H Li, Y-K Choi, W-M Wu, N Mori, N Bodor, S Song

#26 Hypouricemic Activity of *Cynara Scolymus* (Artichoke).

Presenter: Sasiporn Sarawek (Pharmaceutics/Graduate Student)
Authors: S Sarawek, F Qadan, H Derendorf, V Butterweck

#27 Effects of Protein Binding on the Efficacy of Ceftriaxone Against E.coli ATCC 25922.

Presenter: Stephan Schmidt (Pharmaceutics/Graduate Student)
Authors: S Schmidt, W Treyaprasert, H Derendorf

#28 Prevention of Type 1 Diabetes in NOD Mice by AAT Gene Therapy.

Presenter: Mei Tang (Pharmaceutics/Graduate Student)
Authors: M Tang, Y Lu, B Zhang, S Song

#29 A Pharmacodynamic Evaluation of Fluticasone Propionate and Mometasone Furoate Using Adrenal Suppression as a Surrogate Marker.

Presenter: Zia Tayab (Pharmaceutics/Graduate Student)
Authors: Z Tayab, G Hochhaus

#30 Development of Brain Tumor Organotypic Cultures for Characterizing DNA Polymer/Plasmid Mediated Gene Transfer.

Presenter: Nathalie Toussaint (Pharmaceutics/Graduate Student)
Authors: N Toussaint, S Kearns, B Flecher, R Mandel, D Steindler, S Sullivan

#31 Development of Drug Inducible Gene Switch Targeting Insulin-like Growth Factor System for Treatment of Brain Tumors in Rat Animal Model.

Presenter: Leah Villegas (Pharmaceutics/Graduate Student)
Authors: L Villegas, S Sullivan

#32 Synthesis of Calpain Inhibitors for Use as Radiotracers.

Presenter: Xiaoli Wang (Medicinal Chemistry/Graduate Student)
Authors: X Wang, K Prokai-Tatrai, K Wang, L Prokai

ORAL COMPETITION JUDGES

Dr. Maureen A. McKenzie
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