

**17TH ANNUAL RESEARCH
SHOWCASE AND AWARDS
RECOGNITION DAY**

THURSDAY, APRIL 15, 2004



**UNIVERSITY OF FLORIDA
COLLEGE OF PHARMACY**

**A SPECIAL THANKS TO
THIS YEAR'S SPONSORS OF OUR
17TH ANNUAL RESEARCH SHOWCASE**

**DR. ROBERT G. AND MARIA BELL
Palm Harbor, FL**

A major sponsor of this year's research showcase
Formerly Vice President for New Drug Development
Barr Laboratories
(Ph.D., Class of 1988)

**ANDRX CORPORATION
Ft. Lauderdale, FL**

Sponsor of the poster competition
Special thanks to Dr. Francisco Alvarez
Director, Analytical Research
(Ph.D., Class of 1981)

**DR. ROBERT AND PHYLLIS LEVITT
Gainesville, FL**

A very special thanks to Bob and Phyllis,
sponsors of the "*Levitt Award*" since 1993.
(B.S. Pharmacy, Class of 1961; Ph.D.
Psychology, Class of 1965)

SCHEDULE OF EVENTS

8:00am - 9:30am Students Set-up Poster Presentations
(Founders Gallery – ARB)

POSTER COMPETITION

9:30am - 11:30am **Poster Competition** with Students Present for Judging
(Reception Area – HPNP Building)

11:45am - 1:15pm Luncheon for Poster and Oral Judges in the Dean's
Conference Room (Room 4307 – HPNP Building)

ORAL COMPETITION

1:30pm - 1:40pm Introduction by Dr. William Millard, Executive
Associate Dean (Room G-301)

Levitt Division (20 minute presentations)

1:40pm – 2:00pm Sooyeon Kwon
2:00pm – 2:20pm Michael Taylor

Junior Division (15 minute presentations)

2:25pm - 2:40pm Aaron Hirko
2:40pm - 2:55pm Ke Ren
2:55pm - 3:10pm Aleksandar Todorovic

3:15pm - 3:30pm **BREAK** (15 minutes)

Senior Division (20 minute presentations)

3:30pm - 3:50pm Yan Gong
3:50pm - 4:10pm Boman Irani
4:10pm - 4:30pm Srikumar Sahasranaman

5:00pm - 7:00pm **Awards Reception** and Announcement of Division
Winners (Reception Area – HPNP Building)

ORAL COMPETITION

JUNIOR AWARD

- #1 Presenter: **Aaron Hirko**
Dept/Center: Pharmaceutics
Research Title: Novel Gene Therapy for Alzheimer's Disease.
- #2 Presenter: **Ke Ren**
Dept/Center: Pharmaceutics
Research Title: Genetic and Pharmacological Modulation of $\alpha 7$ Nicotinic Receptor Function.
- #3 Presenter: **Aleksandar Todorovic**
Dept/Center: Medicinal Chemistry
Research Title: Peptide Bond Modifications of Melanocortin Agonists Result in Conversion of the Agonist into an Antagonist.

LEVITT DIVISION

- #1 Presenter: **Sooyeon Kwon**
Dept/Center: Pharmacy Health Care Administration
Research Title: Disability and Patient Reported Outcomes in Patients with Stroke.
- #2 Presenter: **Michael Taylor**
Dept/Center: Pharmacy Health Care Administration
Research Title: Surgery Versus Radiation: Is There a Difference in Prostate Cancer-specific Mortality?

SENIOR DIVISION

- #1 Presenter: **Yan Gong**
Dept/Center: Pharmaceutics
Research Title: Disposition and Effects of Human Amyloid Precursor Protein Swedish Mutant in Rat Brain After rAAV2 Mediated Somatic Gene Transfer.
- #2 Presenter: **Boman Irani**
Dept/Center: Medicinal Chemistry
Research Title: Benefits of Voluntary Exercise in Controlling Obesity and Sexual Dysfunction in Melanocortin-4 Receptor Deficient Mice.
- #3 Presenter: **Srikumar Sahasranaman**
Dept/Center: Pharmaceutics
Research Title: Pharmacokinetic and Pharmacodynamic Evaluation of Mometasone Furoate.

POSTER COMPETITION

1 Effect of CYP2D6 and Metoprolol Pharmacokinetics on Adverse Effects.

Authors: A. Beitelshes, A. Gaedigk, J. Leeder, K. Eberst, B. Timmerbeil, M. Lobmeyer, D. Pauly, J. Johnson
Department: Pharmacy Practice
Presenter: Amber Beitelshes (Postdoctoral Fellow)

2 Targeting DNA-PK by siRNA to Study AAV Replication.

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

3 Cytochrome P450 3A4, 3A5, and P-glycoprotein as Pharmacogenomic Predictors of Tacrolimus Pharmacokinetics and Clinical Outcomes in Liver Transplant Recipients.

Authors: C. Formea, T. Luu, A. Albekairy, H. Yarandi, T. Langaee, V. Greene, S. Fujita, A. Hemming, R. Howard, A. Reed, J. Karlix
Department: Pharmacy Practice
Presenter: Christine Formea (Postdoctoral Fellow)

4 High Temporal Resolution Analysis of Neurotransmitters Utilizing On-line Capillary Electrophoresis with Laser-induced Fluorescence Detection.

Authors: N. Hebert, J. Peris
Department: Pharmacodynamics
Presenter: Nicole Hebert (Postdoctoral Fellow)

5 Functional Human Alpha 1 Antitrypsin Secreted from Muscle Transduced by Adeno-associated Virus (rAAV1) Vector.

Authors: Y. Lu, M. Compbell-Thompson, C. Li, T. Flotte, S. Song
Department: Pharmaceutics
Presenter: Yuanqing Lu (Postdoctoral Fellow)

6 Gene Delivery using Modified Poly-ethylenimines.

Authors: G. Rao, R. Tsai, J. Hughes
Department: Pharmaceutics
Presenter: Gururaj Rao (Postdoctoral Fellow)

POSTER COMPETITION (cont.)

7 Ontogeny of Glucocorticoid and Mineralcorticoid Receptors in Fetal and Neonatal Lung and Kidney.

Authors: M. von Reitzenstein, C. Wood, M. Keller-Wood
Department: Pharmacodynamics
Presenter: Marcela von Reitzenstein (Postdoctoral Fellow)

8 NMR Structure of the Agouti-related Protein (AGRP) – Derived Antagonist at the Melanocortin Receptors 3 and 4.

Authors: A. Wilczynski, X. Wang, R. Bauzo, Z. Xiang, R. Thirumoorthy, A. Edison, N. Richards, C. Haskell-Luevano
Department: Medicinal Chemistry
Presenter: Andrzej Wilczynski (Postdoctoral Fellow)

9 The Angiotensin AT2 Receptor Attenuates theVascular Response to Angiotensin II During Pregnancy.

Authors: C. Beck, M. Katovich
Department: Pharmacodynamics
Presenter: Caren Beck (Graduate Student)

10 Targeted Drug-delivery to HIV-reservoir Cells with Immunoliposomes.

Authors: W. Driessen, R. Gieseler, G. Marquitan, M. Hahn, L. Perdon, M. Scolaro, S. Sullivan
Department: Pharmaceutics
Presenter: Wouter Driessen (Graduate Student)

11 Cost-effectiveness of Nesiritide Versus Dobutamine in Patients with Acutely Decompensated Heart Failure.

Authors: T. Gerhard, I. Zineh, A. Hartzema, A. Winterstein
Department: Pharmacy Health Care Administration
Presenter: Tobias Gerhard (Graduate Student)

12 Design and Synthesis of Non-peptide Urea, Characterized at the Mouse Melanocortin Receptors.

Authors: C. Joseph, R. Bauzo, Z. Xiang, C. Haskell-Luevano
Department: Medicinal Chemistry
Presenter: Christine Joseph (Graduate Student)

POSTER COMPETITION (cont.)

- # 13 Cost Effectiveness Analysis of Aspirin for Secondary Stroke Prevention in Patients with Atrial Fibrillation.**
Authors: P. Kanjanarat
Department: Pharmacy Health Care Administration
Presenter: Penkarn Kanjanarat (Graduate Student)
- # 14 Cost-benefit of Hydroxyurea for the Treatment of Sickle Cell Disease.**
Authors: D. Mayhew
Department: Pharmacy Health Care Administration
Presenter: Dionne Mayhew (Graduate Student)
- # 15 An Economic Model to Assess the Cost Effectiveness of Treating Asthmatics with Gastroesophageal Disease.**
Authors: H. Nyanteh, C. Schiller, S. Sednecor, A. Hartzema
Department: Pharmacy Health Care Administration
Presenter: Harry Nyanteh (Graduate Student)
- # 16 The Effect of Cholesterol Lowering Therapy on Coronary Heart Disease in a Diabetic Medicaid Population.**
Authors: K. Schiller, H. Nyanteh
Department: Pharmacy Health Care Administration
Presenter: K. Cameron Schiller (Graduate Student)
- # 17 Pharmacokinetics and Pharmacodynamics of Ciprofloxacin in Modeled Microgravity.**
Authors: E. Schuck, M. Grant, L. Putcha, H. Derendorf
Department: Pharmaceutics
Presenter: Edgar Schuck (Graduate Student)
- # 18 Alterations in Ghrelin-induced Food Intake and Growth Hormone Secretion in Melanocortin 3 and 4 Receptor Knockout Mice.**
Authors: A. Shaw, B. Irani C. Haskell-Luevano, W. Millard
Department: Pharmacodynamics
Presenter: Amanda Shaw (Graduate Student)

POSTER COMPETITION (cont.)

- # 19 rAAV1 Mediated hAAT Gene Therapy Modulate Cellular Immune Response and Prevents Type 1 Diabetes in NOD Mice.**
Authors: M. Tang, S. Song.
Department: Pharmaceutics
Presenter: Mei Tang (Graduate Student)
- #20 Development of Brain Tumor Organotypic Culture Model for Characterizing Polymer Plasmid DNA Mediated Gene Transfer.**
Authors: N. Toussaint, S. Kearns, B. Scheffler, R. Mandel, D. Steindler, A. Yachnis, S. Sullivan
Department: Pharmaceutics
Presenter: Nathalie Toussaint (Graduate Student)
- #21 Control of Cytotoxic Gene Expression by Rat Glioma Cells Transformed with Mifepristone Inducible Gene Switch.**
Authors: L. Villegas, S. Sullivan
Department: Pharmaceutics
Presenter: Leah Villegas (Graduate Student)
- #22 Blood Pressure Medication Compliance and Depressive Symptoms Among Patients with Coronary Artery Disease.**
Authors: S. Watcharathanakij, S. Pinto, L. Ried
Department: Pharmacy Health Care Administration
Presenter: Sawaeng Watcharathanakij (Graduate Student)
- #23 The Economic Burden of Hyperphosphatemia-related End Stage Renal Disease in Florida Medicaid Patients.**
Authors: A. White
Department: Pharmacy Health Care Administration
Presenter: Annesha White (Graduate Student)

JUDGES

ORAL COMPETITION

Dr. William Cassano

Director of Operations, Cheladerm, Inc.
Department of Medicinal Chemistry
College of Pharmacy
University of Florida

Dr. Ronald Evans

President, MAPS 4 Biotech, Inc.
Clinical Professor, Department of Pharmaceutics
College of Pharmacy
University of Florida

Dr. Bin Liu

Associate Professor
Department of Pharmacodynamics
College of Pharmacy
University of Florida

Dr. Tom Munyer

Director of Pharmacy Services, Tacachale
Department of Pharmacy Practice
College of Pharmacy
University of Florida

Dr. Issam Zineh

Assistant Professor
Department of Pharmacy Practice
College of Pharmacy
University of Florida

JUDGES

POSTER COMPETITION

Dr. Veronika Butterweck

Assistant Professor
Department of Pharmaceutics
College of Pharmacy
University of Florida

Dr. Dorette Ellis

Assistant Professor
Department of Pharmacodynamics
College of Pharmacy
University of Florida

Dr. Jason Frazier

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Dr. Reginald Frye

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