

Office of Research and Graduate Studies

2007  **2008**

Annual Report

**University of Florida
College of Pharmacy**

Office of Research and Graduate Studies Staff

William J. Millard, Ph.D.

Executive Associate Dean
Professor, Department of Pharmacodynamics

Deborah Bambarola

Program Assistant

Table of Contents

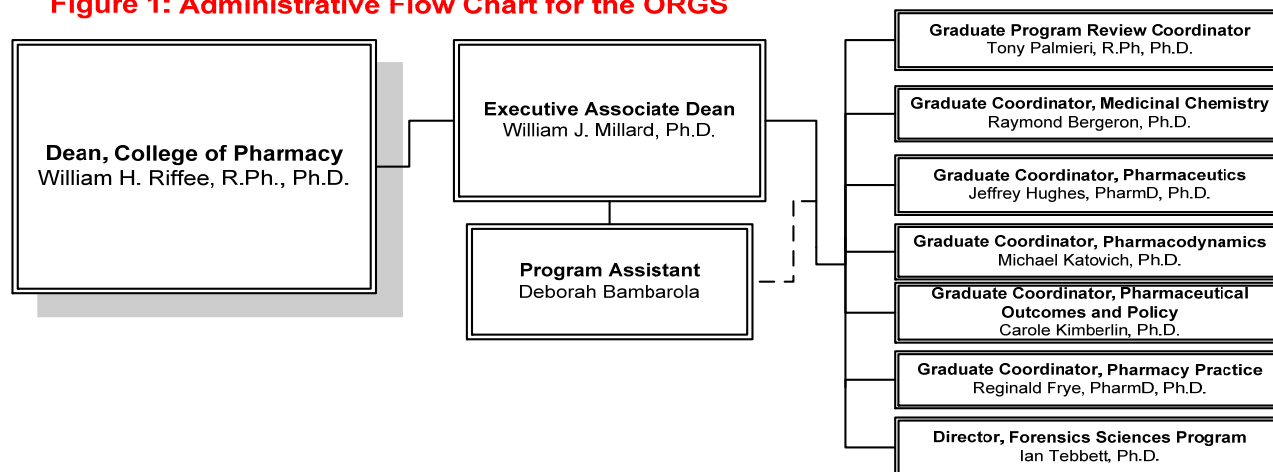
Section	Page
Introduction	1
Graduate Education and Program Activities	2
Graduate Programs in the College	2
Graduate Studies Committee Activities	2
College of Pharmacy Graduate Student Organization	3
Graduate Faculty, Graduate Student, Post-doctoral Fellow, Visiting Scholar and Exchange Student Demographics	3
PharmD/Ph.D. Students in Graduate Programs in the College of Pharmacy.....	7
Graduate Student Recruitment Activities	8
Exchange Students in the College of Pharmacy	9
Graduate Student Graduation Activities	9
Graduate Student Funding and Awards	13
Graduate Minority Activities and Awards.....	16
Research Activities in the College of Pharmacy	17
Grant and Contract Efforts and Funding	17
Licensing and Royalty Income	22
Graduate Student Research Activities	22
Professional Student Research Activities	23
Post-doctoral Fellow Research Activities	24
U.S.-Thai Consortium Activities	25
History of the U.S.-Thai Consortium.....	25
9th U.S.-Thai Pharmacy Education Consortium Meeting	25
Thai Students in the College of Pharmacy.....	25
ORGS Coordinated Events	26
Post-baccalaureate Reception	26
Annual Research Showcase and Awards Recognition Day.....	26
Other ORGS Activities	29
Committee Assignments	29
Conferences Attended Related to ORGS Activity.....	30
Appendices	31
A= Letter to Graduate Applicants	
B= Complete Listing of Extramural Support by Department and Faculty	
C= 20 th Annual Research Showcase and Awards Recognition Day Booklet	

Introduction

The Office of Research and Graduate Studies (ORGS) was established in the College of Pharmacy (COP) in 1989 as the major unit within the College responsible for the oversight of all aspects of the graduate programs (M.S. and Ph.D.) as well as research activities. Within the purview of these two major activities are a number of functions that are coordinated by ORGS personnel and make up the daily operations of the office.

The structure of the ORGS is outlined in **Figure 1**. Dr. William J. Millard, Professor in the Department of Pharmacodynamics, accepted the role as Associate Dean for Research and Graduate Studies on an acting basis in January 1995, and then on a permanent basis in August 1997. On January 1, 1999, Dr. Millard accepted the permanent position as Executive Associate Dean for the College of Pharmacy and as part of this position maintains oversight of the ORGS and reports all ORGS activities directly to the Dean of the College.

Figure 1: Administrative Flow Chart for the ORGS



The Executive Associate Dean is responsible for monitoring all graduate student applications, quality of graduate students and the progression of students through the graduate programs in the College. The Executive Associate Dean's role also includes monitoring of the quality of graduate programs and seeking ways to expand or improve graduate education within the COP. The Executive Associate Dean also acts as the major liaison between the Graduate School and the Office of Research, Technology and Graduate Education (ORTGE) at the University of Florida and the COP faculty and graduate students.

Information concerning graduate programs and education within the COP is communicated from the Executive Associate Dean to faculty or graduate students through the Departmental Chairs and Graduate Coordinators. The Graduate Studies Committee and COP Graduate Student Organization assist the Executive Associate Dean in the responsibility of governing graduate education in the COP (see below: **Graduate Education and Program Activities, Graduate Studies Committee Activities, College of Pharmacy Graduate Student Organization**).

Related to research activities, the Executive Associate Dean has the major responsibility to see that faculty remain active in their individual research programs and to assist them in the grant or contract submission process. It is the Executive Associate Dean's responsibility to ensure that all grants are submitted and logged through UF in the proper manner. This includes that proper contractual arrangements and documentation be completed and that each contract or grant contain the proper faculty percent effort and salary offset dollars, as well as correct indirect cost and graduate student support. The Executive Associate Dean also sees that information relevant to research is communicated to the proper faculty or personnel within the COP.

The Executive Associate Dean also acts as the College's principal liaison for the U.S.-Thai Consortium. This initiative is a major international training agreement between all of the colleges of pharmacy in the country of Thailand and selected pharmacy schools in the United States (see below: **U.S.-Thai Consortium Activities**).

The Executive Associate Dean is assisted in the ORGS by a Program Assistant. Since June 2001, the ORGS Program Assistant has been Ms. Deborah Bambarola. The Program Assistant's role is to handle the daily operations of the ORGS. This includes the submission of needed reports to the COP, University and outside agencies. Communication of informational items to the faculty and graduate students related to issues of graduate education is also a responsibility of the Program Assistant, as well as dealing individually with graduate students and assisting them with various problems and graduate course registration. A major responsibility of the Program Assistant is to coordinate the various functions of the ORGS, as well as the tracking and filing of new and ongoing research grants.

The remainder of this report will deal with COP Graduate Programs, COP Research Activity, U.S.-Thai Consortium Activities, Coordinated Functions and Other Activities of the ORGS.

Graduate Education and Program Activities

Graduate Programs in the College of Pharmacy

There is one Ph.D. program administered through the College of Pharmacy: **Ph.D. in Pharmaceutical Sciences**. Under the umbrella of the Ph.D. in Pharmaceutical Sciences (established in 1932) there are four *graduate specialty programs* that are recognized in the College of Pharmacy by the Graduate School. These graduate specialties are: Medicinal Chemistry (recognized in 1978), Pharmacodynamics (recognized in 1989), Pharmaceutical Outcomes and Policy, formerly known as Pharmacy Health Care Administration (recognized in 1996), and Pharmaceutics (recognized in 1998).

Because of the growing need to have clinically-trained individuals who also have sufficient research training to conduct bench-to-bedside (translational) research, the Departments of Pharmaceutics and Pharmacy Practice developed a collaborative Clinical Ph.D. track within the Pharmaceutics graduate program in the Fall of 2004. This Clinical Pharmaceutical Sciences Program is geared to prepare motivated individuals to pursue independent clinical research careers in academia, industry or government.

Tied to each of the Ph.D. programs in the College is an associated Master of Science (M.S.) in Pharmacy Program. The M.S. in Pharmacy in the departments of Medicinal Chemistry, Pharmaceutics, and Pharmacodynamics requires each student to prepare and defend a thesis as part of their degree. Pharmaceutical Outcomes and Policy has the option of a thesis or non-thesis M.S. degree. In general, students are discouraged from entering directly into an M.S. in Pharmacy; instead, students are strongly encouraged to enter into one of the Ph.D. programs. However, students may opt for the M.S. degree in their discipline if they find that the Ph.D. degree is not what they desire.

During FY 91/92 all Graduate Studies/Programs were *decentralized* in the College from the ORGS and into each of the individual departments. With this decentralization the review or setting of graduate policies and graduate student recruitment is now in the hands of the individual departments. To assist the ORGS in the management of graduate activities in the College, the Graduate Studies Committee (GSC) was established.

The University of Florida online [Forensic Science Program](#) has been designed to meet the needs of today's working professionals. The **Forensic Science Program** consists of four areas of concentration, Forensic Toxicology, Forensic Drug Chemistry, Forensic DNA & Serology and Forensic Science. Within each concentration the program offers a Master's Degree or a Certificate. The Toxicology concentration is provided by the College of Veterinary Medicine while the Drug Chemistry, DNA & Serology, and Forensic Science concentrations are provided by the College of Pharmacy.

The first **Forensic Science Program** online course to be taught was Forensic Toxicology in the Fall of 2000 with only 30 enrollees. Currently, there are over 600 enrollments each semester representing 400 students from 28 different countries. In Spring 2006, the **Forensic Science Program** was recognized by the [American Distance Education Consortium](#) with the National Award for Excellence in Distance Education.

In FY 05/06 the Department of Pharmaceutical Outcomes and Policy initiated an online [Pharmacy Regulation and Policy](#) Master of Science program that provides the necessary credentials for practitioners who want to understand the law better and speak more authoritatively in the workplace when issues of law and regulations arise. This unique masters program is also a career pathway for people who are interested in regulatory or policy-making careers with pharmacy corporations, government agencies, professional associations, managed care organizations, or industry.

Currently, the **Pharmacy Regulation and Policy Program** has 45 enrollments of which the first class of M.S. students graduated Spring 2008 with 8 graduates.

Graduate Studies Committee (GSC) Activities

The primary goal for the GSC is to be a medium through which graduate and research programmatic goals are reviewed on a continual basis and aligned with the goals of the College and the University (*i.e.*, continuous quality improvement, CQI). The primary charge of the GSC is to review and make recommendations on graduate programs in the College of Pharmacy. This would include both new and existing graduate programs. The GSC is involved in considering how the College can attract/fund more graduate students with an emphasis on bringing in more U.S. students and professional (pharmacy) students. This committee is also involved in reviewing any future major mandate(s) from the Graduate School that may impact the functioning of the overall graduate program within the College (*i.e.*, stipends; tuition waivers). The committee continues to select finalists in the College's Spring Research Competition and also makes recommendations on how to improve this College function.

The makeup of the GSC includes **graduate coordinator representatives** from each of the departments and the **President of the COP Graduate Student Organization**. Beginning April 2007, Dr. Tony Palmieri, Clinical Assistant Professor in the Department of Pharmaceutics, was asked to join the GSC to head-up the College's program review (see below: [2008 External Graduate Program Review](#)). Beginning August 2007, Dr. Ian Tebbett, Professor and Program Coordinator of the Forensic Science Distance M.S. Program, was asked to join the GSC for his expertise in and coordination of the online Masters programs. The Executive Associate Dean serves as the non-voting chair, and the Dean as *ex-officio* member of the committee. The Program Assistant sits in on all committee meetings as the recording secretary. Representatives on the Committee were:

Non-voting Chair:	Dr. William Millard	Office of Research and Graduate Studies
Non-voting Secretary:	Ms. Deborah Bambarola	Office of Research and Graduate Studies
Voting Members:	Dr. Raymond Bergeron	Medicinal Chemistry
	Dr. Michael Katovich	Pharmacodynamics
	Dr. Carole Kimberlin	Pharmaceutical Outcomes and Policy
	Dr. Jeffrey Hughes	Pharmaceutics
	Dr. Tony Palmieri	Pharmaceutics
	Dr. Reginald Frye	Pharmacy Practice
	Dr. Ian Tebbett	Forensic Science Program
	Mr. Matthias Fueth	President of COP Graduate Student Organization
Ex-officio Member:	Dr. William Riffée	Dean

The GSC met eleven times throughout the year. Some of the issues that were deliberated included:

- Selection of the FY 07/08 Alumni Scholarship Awardees
- Review of the use of Liberty Award monies for graduate students in each of the 4 Ph.D. granting departments
- Use of State Line OPS monies for graduate student stipends
- Establishment of TA assignments for each of the semesters
- Establishment of goals and objectives for each graduate program within the College
- Selection of finalists for the 21st Annual Research Showcase and Awards Recognition Day
- Preparation for external review of each of the four graduate specialties in the College during FY 07/08

2008 External Graduate Program Review

Graduate programs within the College have not undergone any organized self-study with either external or internal review since 1993. In 2006-2007 the Florida Board of Governors mandated that all SUS Universities in Florida conduct graduate program reviews every seven years to provide continuous quality improvement of all graduate program. In following, this past academic year, the College of Pharmacy conducted a review of their graduate program. Dean William H. Riffée, required that each graduate program review should be independent of each other and conducted by external committees consisting of a minimum of three external reviewers. The respective departments were charged with selecting and inviting faculty from peer institutions to serve in this capacity. Dr. Anthony Palmieri, Assistant Professor in Pharmaceutics was asked to serve as the coordinator of the graduate program reviews. In this capacity, Dr Palmieri established the program review timeline and was involved in preparing program surveys and self-study reports from each graduate concentration. The respective finalized departmental self-study reports were sent to the outside review teams in mid January 2008 with March/early April dates established by the respective departments for their site visit teams to visit UF to conduct their two-day review. Review teams were asked to submit their final 3-5 page reports to the College by mid-May so that the College can prepare and submit the final report for all graduate programs to University Administration and the State of Florida Board of Governors by July 1, 2008.

Interested readers can view respective departmental reviews at the [Office for Research and Graduate Studies](#) website and then link to [Graduate Program Review Spring 2008](#) in the lower left corner of the page. The **executive summary** of the College of Pharmacy Graduate program review is found below.

Executive Summary of the Graduate Program Review Spring 2008

This report includes the methodology, results, discussions and actions to be taken after the review of graduate programs in departments (Medicinal Chemistry, Pharmaceutics (including the Clinical Pharmaceutical Scientist tract), Pharmacodynamics and Pharmaceutical Outcomes & Policy) offering graduate (MS and PhD) degrees in the College of Pharmacy. To determine the strengths and weaknesses of our graduate programs, individual and independent self-study reports, which included surveys of current students and graduate faculty and graduate alumni from the last 10-12 years, were prepared by each department during the Fall 2007 semester. This was followed by a structured, external review consisting of three-person teams from peer institutions for each departmental program during the Spring 2008 semester. Each department then utilized recommendations from the external review team summary reports to prepare plans for improvement of their individual graduate programs. Some common issues across all of the programs were noted. The recognized strength in all of the programs include knowledgeable faculty who are well respected and known throughout the scientific and academic

community. Graduate numbers and alumni placement were noted as very good as well. Weaknesses included a paucity of interdisciplinary graduate courses and activities, as well as an incomplete tracking of and communication with graduate alumni. However, the two most significant concerns were (1) financial support for graduate students being significantly lower than comparator schools and (2) a loss of graduate faculty lines over the last few years.

College of Pharmacy Graduate Student Organization

The COP Graduate Student Organization (GSO) is an avenue by which graduate students can discuss common issues related to graduate education and bring their concerns to the attention of the Executive Associate Dean for Research and Graduate Studies. The COP GSO elects a president on an annual basis. The president of the organization coordinates and runs the meetings (1-2 per year) and also sits in on the Graduate Studies Committee as a voice for the graduate students. **Mr. Matthias Fueth**, from the department of Pharmaceutics, served as president of the organization.

At the beginning of each Fall and Spring term, the ORGS sponsors a luncheon for COP graduate students to promote a forum for exchange of information between each other and the ORGS.

Graduate Faculty, Graduate Student, Post-doctoral Fellow, Visiting Scholar and Exchange Student Demographics

The College has 45 graduate faculty members who are closely involved in the training of all graduate students, post-doctoral fellows and visiting students and scholars. A complete listing of the college graduate faculty, by department, can be found in **Table 1**. A listing of all graduate students according to their department with their date of entrance into the graduate program, degree sought and mentor is found in **Table 2**. Ninety-five graduate students were engaged in studies leading to either the M.S. or Ph.D. degree this year. The COP graduated twelve Ph.D. students and five M.S. students (see below: **Graduate Student Graduation Activities**). The COP accepted 17 new students into the various COP Graduate Programs (**Tables 2 and 5**).

Table 3 outlines the overall demographics of the graduate student population within the COP. This year the number of male students compared to female students was a 43/52 percent male/female ratio. The college has a 31/64 percent American/Foreign student ratio as well.

U.S. minority students comprised 7.4% (7 of 95) of the COP graduate student population (**Table 3**) which is slightly lower compared to the last two years. The minority graduate student percentage was 9% (8 of 94) in FY 06/07 and FY 05/06; 13.2% (12 of 91) in FY 04/05; 13.9% (11 of 79) in FY 03/04; and 13.2% (10 of 76) in FY 02/03. Distribution of graduate students among the four degree-granting departments is illustrated in **Table 4**. Again this year the Department of Pharmaceutics had the highest number of graduate students with 42. Pharmaceutical Outcomes and Policy had 24 students, Medicinal Chemistry had 17 students and Pharmacodynamics had 12 students pursuing graduate degrees. GPA and graduate program entrance test scores for both the entire population of COP graduate students and the entering class of 07/08 are shown in **Table 5**.

For the sake of completeness, a listing by department of Post-doctoral Fellows and Visiting Scholars in the COP is illustrated in **Table 6**.

Noteworthy is that the COP Ph.D./M.S. graduate program had 3 students leave the graduate program in FY 07/08. This represents only an attrition rate of 3.2% (3 of 95). We had two students leave the program for personal reasons, one in Pharmaceutics and one in Pharmaceutical Outcomes and Policy. We had one additional student in Pharmaceutical Outcomes and Policy leave for academic reasons.

Table 1: Graduate Faculty

Department/Center	Faculty Name	
Medicinal Chemistry	Raymond Bergeron	Hendrik Luesch
	Raymond Booth	Kenneth Sloan
	Carrie Haskell-Luevano	Ian Tebbett
	Margaret James	Donna Wielbo
Pharmaceutics/Center for Drug Discovery & Center for Drug Interaction Research and Education	Nicholas Bodor	Jeffrey Hughes
	Veronika Butterweck	Cary Mobley
	Rhonda Cooper-DeHoff	Tony Palmieri
	Hartmut Derendorf	Sihong Song
Pharmacodynamics	Guenther Hochhaus	
	Dorette Ellis	Michael Meldrum
	Jason Frazier	William Millard
	Michael Katovich	Joanna Peris
	Maureen Keller-Wood	William Riffiee
Pharmaceutical Outcomes and Policy/Center for Research in Pharmaceutical Care	Bin Liu	
	Diane Beck	Earlene Lipowski
	David Brushwood	L. Douglas Ried
	Abraham Hartzema	Richard Segal
	Teresa Kauf	Almut Winterstein
Pharmacy Practice/Center for Pharmacogenomics	Carole Kimberlin	
	Amber Beitelshoes	Taimour Langae
	Paul Doering	Larry Lopez
	Reginald Frye	Michael McKenzie
	Leslie Hendeles	J. Daniel Robinson
	Julie Johnson	Issam Zineh

Table 2: Graduate Students

Department/Center	Name	Date Entered	Expected Grad Date	Degree Sought	Mentor
Medicinal Chemistry	Ambadapadi, Sriram *	Aug. 07	May. 11	Ph.D.	James
	Haslach, Erica	Aug. 06	May. 11	Ph.D.	Haskell-Luevano
	Jiang, Yi	Jan. 05	Dec. 08	Ph.D.	Bergeron
	Kwan, Jason	Aug. 05	May. 09	Ph.D.	Luesch
	Leonard, James **	Aug. 04	May. 08	M.S.	Sloan
	Li, Wenjun	Aug. 06	May. 11	Ph.D.	James
	Hemamalini, Devarajan	Aug. 06	May. 11	Ph.D.	Sloan
	Merritt, Kristen	Aug. 02	Dec. 08	Ph.D.	James
	Nyagode, Betty **	Aug. 02	Aug. 07	Ph.D.	James
	Proneth, Bettina **	Jan. 04	Dec. 07	Ph.D.	Haskell-Luevano
	Schaub, Jay *	Aug. 07	May. 11	Ph.D.	Haskell-Luevano
	Sun, Zhuming	Aug. 05	May. 09	Ph.D.	Booth
	Taori, Kanchan	Jan. 06	Aug. 08	M.S.	Luesch
	Travers, Sean	Aug. 06	May. 11	Ph.D.	Booth
	Wang, Rui *	Aug. 07	May. 11	Ph.D.	Luesch
	Wilson, Krista **	Aug. 03	May. 08	Ph.D.	Haskell-Luevano
	Yao, Hua **	Aug. 01	Aug. 07	Ph.D.	Bergeron

Table 2: Graduate Students (cont.)

Department/Center	Name	Date Entered	Expected Grad Date	Degree Sought	Mentor
Pharmaceutics/Center for Drug Discovery & Center for Drug Interaction Research and Education	Barbour, April	Aug. 05	May. 09	Ph.D.	Derendorf
	Fueth, Matthias *	Aug. 07	May. 11	Ph.D.	Song
	Ghobrial, Oliver	Aug. 04	Aug. 08	Ph.D.	Derendorf
	Goyal, Navinkumar	Aug. 04	Dec. 08	Ph.D.	Hochhaus
	Grimstein, Christian	Jan. 05	Dec. 08	Ph.D.	Song
	Grundmann, Oliver **	Aug. 04	May. 08	Ph.D.	Butterweck
	Hassan, Am Mahbub	Aug. 05	May. 10	Ph.D.	Hughes/Hochhaus
	Le, Huong *	Aug. 07	May. 11	Ph.D.	Hughes
	Li, Hong	Aug. 04	Dec. 08	Ph.D.	Song
	Li, Yanjun	Aug. 04	Aug. 08	Ph.D.	Derendorf
	Liu, Jiang	Aug. 05	May. 09	Ph.D.	Derendorf
	Mesaros, Ryan *	Aug. 07	May. 11	Ph.D.	Hughes
	Mudunuri, Keerti **	Jan. 04	May. 08	Ph.D.	Hochhaus
	Naik, Runa *	Aug. 07	May. 11	Ph.D.	Derendorf
	Nevrekar, Akshata *	Aug. 07	Left Prog.	Ph.D.	Hughes
	Patel, Gina	Aug. 05	May. 10	Ph.D.	Hochhaus
	Phipps, Stephen	Aug. 04	Aug. 08	Ph.D.	Butterweck
	Pinto, Elanor	Aug. 03	Aug. 08	Ph.D.	Hochhaus
	Potocka, Elizabeth	Aug. 04	Aug. 08	Ph.D.	Derendorf
	Sahre, Martina	Jan. 07	May. 11	Ph.D.	Derendorf
	Sarawek, Sasiporn **	Jan. 03	Aug. 07	Ph.D.	Butterweck
	Schmidt, Stephan	Aug. 05	Dec. 08	Ph.D.	Derendorf
	Shi, Rong	Aug. 06	May. 11	Ph.D.	Derendorf
Vanachayangkul, P	Aug. 04	Aug. 08	Ph.D.	Butterweck	
Vieira, Manuela *	Aug. 07	May. 11	Ph.D.	Butterweck	
Villegas, Leah **	Aug. 02	Aug. 07	Ph.D.	Sullivan	
Wang, Nasha	Aug. 04	Aug. 08	Ph.D.	Hochhaus	
Wang, Zhaohua	Aug. 06	May. 11	Ph.D.	Hughes	
Weide, Michael	Aug. 06	May. 11	Ph.D.	Hughes	
Xu, Jian	Aug. 05	Aug. 08	Ph.D.	Derendorf	
Zdrojewski, Immo **	Aug. 03	May. 08	Ph.D.	Derendorf	
Clinical Pharmaceutical Science Track: Department of Pharmacy Practice and Center for Pharmacogenomics	Davis, Heather *	Aug. 07	May. 11	Ph.D.	Frye
	Dravid, Prajakta **	Aug. 04	Dec. 07	M.S.	Frye
	Duarte, Julio	Aug. 06	May. 11	Ph.D.	Zineh
	Le, Myphuong	Aug. 05	May. 10	Ph.D.	Johnson
	Lobmeyer, Maximilian	Aug. 04	Dec. 08	Ph.D.	Johnson
	Mohamed, Mohamed E.	Aug. 05	May. 10	Ph.D.	Frye
	Moore, Mariellen *	Aug. 07	May. 11	Ph.D.	Frye
	Navare, Hrishikesh	Aug. 05	May. 10	Ph.D.	Johnson
	Potvin, Melonie	Aug. 06	May. 11	Ph.D.	Frye
	Price, Elvin	Aug. 04	Dec. 08	Ph.D.	Zineh
Schentrup, Anne	Aug. 04	Dec. 08	Ph.D.	Johnson	

Table 2: Graduate Students (cont.)

Department/Center	Name	Date Entered	Expected Grad Date	Degree Sought	Mentor
Pharmaceutical Outcomes and Policy/Center for Research in Pharmaceutical Care	Al-Khars, Ibrahim	Aug. 06	May. 11	Ph.D.	Kimberlin
	Ali, Ayad	Aug. 05	May. 10	Ph.D.	Hartzema
	Allen, Mark	Aug. 05	May. 09	Ph.D.	Kimberlin
	Balding, Diane	Aug. 00	May. 09	Ph.D.	Ried
	Campbell, Karen	Jan. 07	Left Prog.	M.S.	Kimberlin
	Chen, Chih-Ying	Aug. 04	May. 09	Ph.D.	Kimberlin
	Douglas, Charles	Aug. 05	May. 09	Ph.D.	Kimberlin
	Garman, Patrick **	Aug. 04	Aug. 07	Ph.D.	Ried
	Ghandi, Pranav	Aug. 06	May. 11	Ph.D.	Kimberlin
	Hampp, Christian	Aug. 04	May. 09	Ph.D.	Winterstein
	He, Jinghua	Aug. 05	May. 09	Ph.D.	Kimberlin
	Hsu, Chienning	Aug. 04	May. 09	Ph.D.	Kimberlin
	Hwang, Jae-Min **	Aug. 03	Dec. 07	M.S.	Segal
	Lee, Christine *	Aug. 07	May. 11	Ph.D.	Kimberlin
	Linden, Stephan *	Aug. 07	May. 11	Ph.D.	Kimberlin
	Ma, Qinli *	Aug. 07	May. 11	Ph.D.	Kimberlin
	Mueller, Michael	Aug. 01	Aug. 08	Ph.D.	Kimberlin
	Murkherjee, Kumar	Aug. 04	Aug. 08	Ph.D.	Segal
	Onyenwenyi, Ahunna	Aug. 03	Aug. 08	Ph.D.	Winterstein
	Rungreangyingyod, L * **	Aug. 07	May. 08	M.S.	Lipowski
	Ritho, Jane	Aug. 05	May. 09	Ph.D.	Hartzema
	Shetty, Namrata	Aug. 05	Left Prog.	Ph.D.	Hartzema
	Telfair, Tamara	Aug. 02	May. 09	Ph.D.	Hartzema
Watcharathanakij, S **	Aug. 02	May. 08	Ph.D.	Segal	
Pharmacodynamics	Bhatia, Chinki	Aug. 04	Aug. 09	Ph.D.	Frazier
	Dismuke, Michael	Aug. 06	May. 10	Ph.D.	Ellis
	Dutta, Garima	Aug. 06	May. 10	Ph.D.	Liu
	Feng, Xiaodi *	Aug. 07	May. 11	Ph.D.	Keller-Wood
	Kasper, James	Aug. 06	May. 10	Ph.D.	Peris
	Li, Zhimin **	Aug. 04	May. 08	Ph.D.	Peris
	Lingis, Melissa	Aug. 04	May. 09	Ph.D.	Keller-Wood
	Liu, Yue *	Aug. 07	May. 11	Ph.D.	Liu
	Mao, Haoyu	Aug. 04	May. 08	Ph.D.	Liu
	Qi, Yanfei	Aug. 05	May. 09	Ph.D.	Katovich
Sharma, Heera	Aug. 06	May. 10	Ph.D.	Liu	
Shenoy, Vinayak	Aug. 05	May. 09	Ph.D.	Katovich	

* new students entering a graduate program during FY 07/08

** students who graduated with an M.S. or Ph.D. during FY 07/08

Table 3: Graduate Student Demographics

Gender	Citizenship						American Minority					
	United States		Foreign		Black		Hispanic		Asian			
	#	%	#	%	#	%	#	%	#	%		
TOTAL	95		31	32.6%	64	67.4%	2	2.1%	2	2.1%	3	3.2%
Male	43	45.3%	15	34.9%	28	65.1%	1	2.3%	2	4.7%	0	0.0%
Female	52	54.7%	16	30.8%	36	69.2%	1	1.9%	0	0.0%	3	5.8%

Table 4: Graduate Students, Fellows, Visiting Scholars and Exchange Students

Department/Center	Graduate Students	Post-doctoral Fellows	Visiting Scholars	Exchange Students
Medicinal Chemistry	17	9	0	1
Pharmaceutics	42	9	2	16
Pharmacodynamics	12	0	0	0
Pharmaceutical Outcomes and Policy	24	0	0	0
Pharmacy Practice	No Grad. Prog.	6	0	0
COLLEGE TOTAL	95	24	2	17

Table 5: GPA and Test Scores of Graduate Students

Class	GPA	GRE			TOEFL	TSE
		Verbal	Quant.	Total		
COLLEGE TOTAL (95)*	3.46	513	707	1220	130	49
FY 07/08 Class (17)	3.67	501	719	1224	114	N/A

* numbers in parenthesis denote student population

Table 6: Post-doctoral Fellows and Visiting Scholars

Department/Center	Name	Mentor	Home Country
Medicinal Chemistry	Akindele, Abidemi	James	Nigeria
	Bharti, Neelam	Bergeron	India
	Fang, Lijuan	Booth	Canada
	Liu, Yanxia	Luesch	China
	Matthew, Susan	Luesch	India
	McManis, James	Bergeron	USA
	Singh, Anamika	Haskell-Luevano	India
	Singh, Shailendra	Bergeron	India
	Vincek, Adam	Booth	USA
	Xiang, Zhimin	Haskell-Luevano	China
Pharmaceutics/ Center for Drug Discovery & Center for Drug Interaction Research and Education	Essack, Sabiha	Derendorf	South Africa
	Lu, Yuanqing	Song	China
	Ma, Hongxia	Song	China
	Niu, Guoqin	Hughes	China
	Pan, Hao	Derendorf	China
	Rao, Guraj	Hughes	India
	Sabarinath, S	Derendorf	India
	Song, Young Goo	Derendorf	Korea
	Wang, Jie	Derendorf	China
	Wittau, Mitthias	Derendorf	Germany
Pharmacy Practice/ Center for Pharmacogenomics	Zhang, Bin	Song	China
	Adkinson, Casey	Taylor	USA
	Anderson, Shawn	Gums	USA
	Niu, Yuxin	Johnson	China
	Pacanowski, Michael	Johnson	USA
	Pettus, Joanna	Robinson	USA
	Shin, Jaekyu	Johnson	South Korea

PharmD/Ph.D. Students in Graduate Programs in the College

The University of Florida, College of Pharmacy offers a [joint Doctor of Pharmacy \(PharmD\) and Doctor of Philosophy \(Ph.D.\) degree](#) program for qualified Doctor of Pharmacy students who are interested in accelerated graduate studies. The

purpose of this program is to prepare clinically oriented pharmaceutical scientists. Through the selection of appropriate graduate level courses and attainment of research skills and experience through research clerkships, students in the Doctor of Pharmacy program can receive advanced standing in one of the graduate pharmaceutical science disciplines in the College of Pharmacy. The joint degree program enables students to attain both degrees within a time frame of approximately nine years of study from the beginning of college. This includes at least two years of prepharmacy studies, four years of professional education, and approximately three to four years of graduate studies.

Because of the increasing interest of our PharmD students in the Clinical Pharmaceutical Sciences Program in our Departments of Pharmacy Practice and Pharmaceutics (see page 2), we have experienced a resurgence of the PharmD/Ph.D. program in recent years. Our first student to complete the PharmD/Ph.D. track was in May 2005 in our POP Department. Currently we have a total of 14 PharmD/Ph.D. students completing the joint degree program. Six students have completed their PharmD curriculum and now have entered the Ph.D. program and eight students are currently finishing their PharmD degree and will enter the Ph.D. portion of the joint program in the next year or so. A complete listing of PharmD/Ph.D. students is listed below (**Table 7**).

Table 7: PharmD/Ph.D. Students Engaged in COP Graduate Programs			
Student Name	Department/Program	Expected Graduation Year	
		PharmD	Ph.D.
Completing the Ph.D.:			
Dr. Anne Schenturp	Pharmaceutics/Pharmacy Practice/CST*	2004	2008
Dr. Elvin Price	Pharmaceutics/Pharmacy Practice/CST	2004	2009
Dr. Julio Duarte	Pharmaceutics/Pharmacy Practice/CST	2006	2010
Dr. Melanie Potvin	Pharmaceutics/Pharmacy Practice/CST	2006	2010
Dr. Mariellen Moore	Pharmaceutics/Pharmacy Practice/CST	2007	2011
Dr. Heather Davis	Pharmaceutics/Pharmacy Practice/CST	2007	2011
Completing the PharmD Degree:			
Mr. Jason Karnes	Pharmaceutics/Pharmacy Practice/CST	2008	2012
Mr. Daniel Gonzalez	Pharmaceutics/Pharmacy Practice/CST	2008	2012
Mr. Guibron Salom	Pharmaceutics/Pharmacy Practice/CST	2008	2012
Mr. Michael Martin	Pharmaceutics/Pharmacy Practice/CST	2009	2013
Mr. Eric Egelund	Pharmaceutics/Pharmacy Practice/CST	2009	2013
Mr. Greg Welder	Pharmaceutics/Pharmacy Practice/CST	2009	2013
Mr. Andrew Chanliongco	Pharmaceutical Outcomes and Policy	2009	2013
Ms. Shannon Zandy	Pharmacodynamics	2010	2014

* CST= Clinical Scientist tract

Graduate Student Recruitment Activities

Recruitment of graduate students was decentralized in 1991 and placed in the hands of the individual departments. As such, departments are now responsible for their own recruitment brochures and strategies for graduate student recruitment.

Whenever possible, requests for application materials that come through the ORGS are now sent to the departments. However, when applicants do not specify a graduate specialty in their letter of inquiry the ORGS handles these requests. To streamline the process, a letter (**see Appendix A**) describing the individual graduate programs/specialties and identifying the graduate coordinators of each graduate specialty is sent to each applicant. In this letter, applicants are encouraged to access information from the COP home page on the Web.

Graduate student application activity for FY 07/08 for each of the departments is illustrated in **Table 8**. The College received 182 completed applications. Of the 182 completed applications received by the departments, only 18 (or 9.9%) of the applicants were accepted, of which 13 students (or 72.2% of the potential students) will enter our graduate programs for FY 08/09.

Table 8: Departmental Graduate Student Recruitment Activity

Department	# Completed Applications	# Applications Accepted	% Accepted	# Applicants Entered	% Entered
Medicinal Chemistry	50	5	10.0%	2	40.0%
Pharmaceutics	73	3	4.1%	2	66.7%
Pharmacodynamics	29	2	6.9%	2	100.0%
Pharm. Outcomes and Policy	26	5	19.2%	5	100.0%
Pharmacy Practice	4	3	75.0%	2	66.7%
COLLEGE TOTAL	182	18	9.9%	13	72.2%

Exchange Students in the College of Pharmacy

Each year many exchange students visit the COP for a 3-4 month period to help them develop in their research as part of the core curriculum from their home country. This fiscal year the college hosted 18 students (**Table 9**).

Table 9: Exchange Students

Department	Student Name	Mentor	Home Country
Pharmaceutics/ Center for Drug Discovery & Center for Drug Interaction Research and Education	Chae, Han-Jung	Derendorf	South Korea
	Gloede, Julia	Derendorf	Germany
	Held, Heinz	Derendorf	Germany
	Heller, Christoph	Derendorf	Germany
	Ma, Benjamin	Derendorf	Germany
	Marchand, Sandrine	Derendorf	France
	Michaelis, Marc	Derendorf	Germany
	Michler, Victoria	Sloan	Germany
	Mueller, Christiane	Derendorf	Germany
	Osi-Efa, Abdul-Azeez	Butterweck	United Kingdom
	Semlin, Lydia	Derendorf	Germany
	Sokolowski, Verena	Derendorf	Germany
	Stoltenberg, Ines	Derendorf	Germany
	Ulrich, Anna	Derendorf	Germany
	Wahl, Karin	Derendorf	Germany
	Weber, Benjamin	Derendorf	Germany
	Wolkart, Karin	Butterweck	Austria
Medicinal Chemistry	Chae, Han-Jung	Derendorf	South Korea

Graduate Student Graduation Activities

During this academic year the COP had twelve students finish their graduate program and earn a Ph.D. degree and five who earned a Master's degree. The graduates according to commencement date were:

Ph.D. in Pharmaceutical Science Degrees Conferred

AUGUST 2007 (SUMMER COMMENCEMENT)

Name: **Dr. Patrick Garman**
Dissertation Title: *Risk of Tendon Rupture after Quinolone use in a Military Population*
Faculty Mentor: Dr. L. Douglas Ried, Associate Professor
Department: Pharmaceutical Outcomes and Policy
Previous Degree: MBA, University of Maryland; PharmD, Ohio State University

Dr. Garman assumed a position as the Deputy Director for Scientific Affairs, Military Vaccine Agency, Falls Church, VA., U.S. Army.

Name: **Dr. Beatrice Nyagode**
Dissertation Title: *Biotransformation of Methoxychlor and Selected Xenobiotics in the Channel Catfish (Ictalurus Punctatus) and Largemouth Bass (Micropterus Salmoides)*
Faculty Mentor: Dr. Margaret James, Professor
Department: Medicinal Chemistry
Previous Degree: B.S. in Chemistry and Zoology, M.S. in Chemistry, Egerton University, Kenya

Dr. Nyagode assumed a post-doctoral position at Emory University, Atlanta, GA.

Name: **Dr. Sasiporn Sarawek**
Dissertation Title: *Xanthine Oxidase Inhibition and Antioxidant Activity of an Artichoke Leaf Extract (Cynara Scolymus L.) and its Compounds*
Faculty Mentor: Dr. Veronika Butterweck, Assistant Professor
Department: Pharmaceutics
Previous Degree: B.S. in Pharmacy, Chiangmai University, Thailand

Dr. Sarawek assumed a position as an Associate Scientist at Lexicon Pharmaceuticals, The Woodlands, TX.

Name: **Dr. Leah Villegas**
Dissertation Title: *Development of Non Viral Gene Therapy Targeting the Insulin-like Growth Factor System for the Treatment of Brain Tumors*
Faculty Mentor: Dr. Sean Sullivan, Professor
Department: Pharmaceutics
Previous Degree: B.S. in Biology, University of North Florida

Dr. Villegas assumed a post-doctoral position at the Mayo Clinic, Rochester, MN.

Name: **Dr. Hua Yao**
Dissertation Title: *The Application of Polyamine Pharmacophores as Vectors for Intracellular Transport of Therapeutic Agents*
Faculty Mentor: Dr. Raymond Bergeron, Professor
Department: Medicinal Chemistry
Previous Degree: B.S. in Food Science and Technology, Tianjin University of Science and Technology

Dr. Yao assumed a post-doctoral position working with Dr. Wolfgang Streit in the Department of Neuroscience at the McKnight Brain Institute, University of Florida.

DECEMBER 2007 (FALL COMMENCEMENT)

Name: **Dr. Oliver Grundmann**
Dissertation Title: *Anxiolytic Activity of Apocynum Venetum and its Proposed Mechanisms of Action*
Faculty Mentor: Dr. Veronika Butterweck, Assistant Professor
Department: Pharmaceutics
Previous Degrees: B.S. in Pharmacy, University of Muenster, Germany; M.S. in Forensic Toxicology, University of Florida

Dr. Grundmann assumed a position as a Research Associate in the Nutritional Sciences Department at the University of Arizona, Tucson, AZ.

Name: **Dr. Bettina Proneth**
Dissertation Title: *Rational Drug Design Approaches Targeting the Brain Melanocortin Receptors*
Faculty Mentor: Dr. Carrie Haskell-Luevano, Assistant Professor
Department: Medicinal Chemistry
Previous Degree: Pharmacy Certificate, University of Regensburg, Germany

Dr. Proneth assumed a post-doctoral position within the Department of Internal Medicine at University of Texas Health Science Center, Dallas, TX.

Name: **Dr. Sawaeng Watcharathanakij**
Dissertation Title: *Time Lag Model for Quality of Life Assessment in HIV-infected Patients with Highly Active Antiretroviral Therapy*
Faculty Mentor: Dr. Richard Segal, Professor
Department: Pharmaceutical Outcomes and Policy
Previous Degree: M.S. in Hospital Pharmacy, Mahidol University, Bangkok, Thailand

Dr. Wacharathanakij assumed a position as an Assistant Professor within the Department of Pharmacy Practice, Ubon Ratchathani University, Thailand.

MAY 2008 (SPRING COMMENCEMENT)

Name: **Dr. Zhimin Li**
Dissertation Title: *Neuronal Mechanism of Increasing Motivation of Operant Ethanol Self-administration Caused by Intermittent Ethanol Binge Exposures*
Faculty Mentor: Dr. Joanna Peris, Associate Professor
Department: Pharmacodynamics
Previous Degrees: B.S. in Pharmacy, Huibei University of Traditional Chinese Medicine, China

Dr. Li assumed a post-doctoral position working with Dr. Joanna Peris in the Department of Pharmacodynamics, College of Pharmacy, University of Florida.

Name: **Dr. Keerti Mudunuri**
Dissertation Title: *Intravitreal Delivery of Corticosteroid Nanoparticles*
Faculty Mentor: Dr. Guenther Hochhaus, Professor
Department: Pharmaceutics
Previous Degrees: B.S. in Pharmacy, Andhra University, India

Dr. Mudunuri's employment is undecided at this time.

Name: **Dr. Krista Wilson**
Dissertation Title: *Rational Approach to Design of Melanocortin Ligands and Receptor Chimeras*
Faculty Mentor: Dr. Carrie Haskell-Luevano, Associate Professor
Department: Medicinal Chemistry
Previous Degrees: B.S. in Animal Science, University of Florida

Dr. Wilson will be moving to North Carolina and care for her children before returning to work.

Name: **Dr. Immo Zdrojewski**
Dissertation Title: *Interactions between Grapefruit Juice and HMG-CoA Reductase Inhibitors*
Faculty Mentor: Dr. Hartmut Derendorf, Professor
Department: Pharmaceutics
Previous Degrees: B.S. in Pharmacy, Wilhelms University, Munster, Germany

Dr. Zdrojewski assumed a post-doctoral position at the Food and Drug Administration, Silver Spring, MD.

Master's in Pharmaceutical Science Degrees Conferred

AUGUST 2007 (SUMMER COMMENCEMENT)

Name: **Mr. Ayad Ali**
Faculty Mentor: Dr. Abraham Hartzema, Professor
Department: Pharmaceutical Outcomes and Policy
Previous Degree: B.S. in Pharmacy, University of Mosul, Iraq

Mr. Ali will be pursuing his Ph.D. degree within the same department of Pharmaceutical Outcomes and Policy, College of Pharmacy, University of Florida.

DECEMBER 2007 (FALL COMMENCEMENT)

Name: **Mr. Jae-Min Hwang**
Faculty Mentor: Dr. Richard Segal, Professor
Department: Pharmaceutical Outcomes and Policy
Previous Degree: B.S. in Pharmacy, Seoul National University, South Korea

Mr. Hwang moved to Orlando, FL but his employment is unknown at this time.

Name: **Mr. Prajakta Dravid**
Faculty Mentor: Dr. Reginald Frye, Associate Professor
Department: Pharmaceutics/Pharmacy Practice
Previous Degree: M.S. in Pharmacy, National Institute of Pharmaceutical Education and Research, India

Mr. Dravid's employment is unknown at this time.

MAY 2008 (SPRING COMMENCEMENT)

Name: **Mr. James Leonard**
Faculty Mentor: Dr. Kenneth Sloan, Professor
Department: Medicinal Chemistry
Previous Degree: B.S. in Chemistry, University of Michigan

Mr. Leonard is enrolled in the Ph.D. program in the Department of Organic Chemistry, University of Florida.

Name: **Mr. Lek Rungreangyingyod**
Faculty Mentor: Dr. Earlene Lipowski, Associate Professor
Department: Pharmaceutical Outcomes and Policy
Previous Degree: B.S. and M.S. in Pharmacy, Mahidol University, Thailand

Mr. Rungreangyingyod is looking to pursue a graduate degree at another university within the United States or the United Kingdom.

Forensic Sciences Master's Degrees Conferred

This year in the Forensics programs there were 251 students enrolled in one of the four Master's programs and 93 students enrolled in one of the four certificate programs. Within the Master's programs there was a total of 66 students who graduated; 17 (25.4%) from the Drug Chemistry concentration, 29 (43.3%) from the DNA and Serology concentration, and 20 (30.3%) from the Forensic Science concentration. Within the certificate programs there was a total of 83 students who received their certificate; 22 (26.5%) from the Drug Chemistry concentration, 37 (44.6%) from the DNA and Serology concentration, and 24 (28.9%) from the Death Investigation concentration. Listed below (**Table 10**) are those students who have graduated with their Master's in the COP concentrations.

Table 10: Master's Graduates in the Forensic Sciences Program		
Program	Name	
	Summer 2007	
DNA and Serology	Colon, Yesenia	Santos, Rana
	Gemson, Andrea	Smith, Angele
	Marne, Beth	
Drug Chemistry	Agosta, Michelle	Hartmann-Fischbach, Petra
	Botch, Sabra	McLellan, Florence
	Boulineau, Lee	Nguyen, Khuong
	Breshears, Inara	Sweeney, Meredith
	Brunyansky, Tara	Vajdos, scott
	Edwards, Lydia	

Table 10: Master's Graduates in the Forensic Sciences Program (cont.)		
Program	Name	
Summer 2007 (cont.)		
Forensic Science	Belcher-Barber, Donna	Kucera, Tomas
	Cline, Jessica	Norych, Megan
	Kosiorek, Kevin	Wade, Michelle
Fall 2007		
DNA and Serology	Esaki, David	Morales, Carlos
	Groeneveld, Jennifer	Pearn, Laura
	Kagnandan, Kimberly	Ritzline, Earl
	Korvin, Jennifer	Suchanek, LeAnne
	Kothari, Tanvi	Watson, Renee
	Long, Jennifer	Wright, Darren
	McAnay, Peterjon	
Drug Chemistry	Celis, Esperanza	Wolfe, Ashley
	Fontaine, Elizabeth	
Forensic Science	Bhan, Becky	Martin, Tracy
	Crabtrey, Erin	Rose, Jamie
	Desmarais, Matthew	Sibley, Sabrina
	Freijo Jr., Tom	Vachon, Crystina
	King, Allison	
Spring 2008		
DNA and Serology	Bego, Mariana	McCormack, Andrea
	Box, Annette	Ober, Jennifer
	Colson, Kelli	Parsons, Rebekah
	DelGiorna, Kathleen	Patel, Bijal
	Jacoby, Ashley	Petrucci, Nicole
	Link, Kristy	
Drug Chemistry	Galivan, Colette	Le, Tai
	Johnson, Brad	
Forensic Science	Amidon, Alisha	Price, Mary
	Baker, Blaine	Smart, Robyn
	Panchuk, Roberta	

Pharmacy Regulations and Policy Master's Degrees Conferred

This year in the *Pharmacy Regulation and Policy Program* there were 45 students enrolled of which the first class of M.S. students graduated this Spring. Listed below (**Table 11**) are those students who have graduated with their Master's.

Table 11: Master's Graduates in the Pharmacy Regulations and Policy Program		
Spring 2008		
Bills, Karen	Mazza, Scott	
Carrasquillo, Zulma	Peasah, Hannah	
Kowalski, Maribeth	Reeder, Steve	
Lake-Wallace, Sarah	Wells, Anne	

Graduate Student Funding and Awards

Awardees are recommended to the Graduate Studies Committee or the Executive Associate Dean for Research and Graduate Studies by their respective graduate coordinator or departmental chair. Based on the student's academic credentials and letters of support, awardees are selected by the Executive Associate Dean for Research and Graduate Studies in discussion with the Graduate Studies Committee.

The COP carried the major load of the funding of graduate student stipends by supporting forty-two graduate student stipends; five students received support from their department; seventeen students received support from extramural research

grants; two students received funding from their home government; and fourteen students funded their own graduate education this year. Eleven students received Grinter Awards as a supplement to their state funding. Graduate stipends ranged from \$14,000 to \$30,000 with an average overall stipend of \$17,098.

Eight graduate student fellowship proposals totaling \$252,080 were submitted to extramural sources this year. Agencies to which proposals were submitted were the American Foundation for Pharmaceutical Education (AFPE), the American Heart Association (AHA) – Florida Affiliate, United States Pharmacopeia, Wyeth, Juvenile Diabetes Research Foundation and Merck & Co.

Alumni Scholarships

Beginning Fall Semester 1999, the University of Florida offered the *Alumni Scholarship Program* with the express interest of increasing graduate enrollment and attracting high quality students to each graduate program at the University. This scholarship represents the highest graduate student award available at the University and is funded at nationally competitive levels at \$25,000/year for four years plus all tuition remuneration. The College of Pharmacy received four additional *Alumni Scholarships*. The recipients of the *Alumni Scholarships* are:

Mr. Jay Schaub	Medicinal Chemistry	FY 07/08
Dr. Heather Davis	Pharmaceutics/Pharmacy Practice	FY 07/08
Ms. Yue Liu	Pharmacodynamics	FY 07/08
Ms. Christine Lee	Pharmaceutical Outcomes and Policy	FY 07/08
Mr. John Benedet	Medicinal Chemistry	FY 06/07
Mr. Michael Weide	Pharmaceutics	FY 06/07
Ms. Heera Sharma	Pharmacodynamics	FY 06/07
Ms. April Barbour	Pharmaceutics	FY 05/06
Mr. Jiang Liu	Pharmaceutics	FY 05/06
Ms. Yanfei Qi	Pharmacodynamics	FY 05/06
Mr. Vinayak Shenoy	Pharmacodynamics	FY 05/06
Mr. Jinghua He	Pharmaceutical Outcomes and Policy	FY 05/06
Ms. Chin-Ying Chen	Pharmaceutical Outcomes and Policy	FY 04/05
Mr. Kumar Mukherjee	Pharmaceutical Outcomes and Policy	FY 04/05
Ms. Nasha Wang	Medicinal Chemistry	FY 04/05

Fullbright Capes Scholarships

The CAPES Foundation is a Brazilian government agency awarding scholarship grants to graduate students at universities and research centers in Brazil and abroad. Its central purpose is to coordinate efforts to improve the quality of faculties and staff in higher education through its grant program. *CAPES* is particularly concerned with the training of researchers in doctorate, pre-doctoral short-term research and post-doctorate scholar programs. At present *CAPES* supports about 22,000 students in Brazilian graduate programs and 1,500 in other countries. The recipient of the *Fullbright Capes Scholarship* is:

Ms. Manuela Vieira	Pharmaceutics	FY 07/08
---------------------------	---------------	----------

Dean's Award

The *Dean's Award* is designated to acknowledge and enhance the academic development of a graduate student entering the second year of their graduate Ph.D. program who has excelled in both classroom and research activities. This award consists of a stipend supplement of \$3,000 per year for 3 years and is announced at the annual Post-baccalaureate Reception ([ORGS Coordinated Events for the COP; Post-baccalaureate Reception](#)). The recipient of the *Dean's Award* is:

Mr. Michael Dismuke	Pharmacodynamics	FY 07/08
----------------------------	------------------	----------

Grinter Awards

Originated in 1988, the intent of the *Grinter Awards Program* was to serve as a mechanism to recruit graduate students with outstanding academic credentials into one of the College's graduate programs. These awards come from monies allocated from ORTGE on a college-by-college basis and supplement our existing state stipends, an additional \$3,000 per year for a maximum of 3 years (\$9,000 total award). A statistical summary of the *Grinter Awards* in the COP is illustrated in **Table 12**. Overall, we have had a 64.8% acceptance of *Grinter Awards* by prospective students. Sixty-seven percent of the COP Grinter Awardees have graduated from the COP program with either a Ph.D. or M.S. degree. The overall average GPA for the Grinter Awardees is 3.56 with a GRE of 1241 and a TOEFL of 107.

Statistic	Overall	%	07/08 Class
Total number offered	108		3
Total number accepted	70	64.8%	3
Total number graduated	47	67.1%	
Total number still enrolled: past & present	14	20.0%	
Number of active awardees	11	15.7%	3
Grade Point Average (GPA)	3.56		N/A
Graduate Record Exam -GRE (Verbal + Quant.)	1241		1323
Test of English as a Foreign Language (TOEFL)	107		103.5

This year the COP offered 3 new *Grinter Awards*. The recipients of the *Grinter Awards* are:

Ms. Xiaodi Feng	Pharmacodynamics	FY 07/08
Mr. Stephan Linden	Pharmaceutical Outcomes and Policy	FY 07/08
Ms. Qinli Ma	Pharmaceutical Outcomes and Policy	FY 07/08
Ms. Erica Haslach	Medicinal Chemistry	FY 06/07
Mr. Sean Travers	Medicinal Chemistry	FY 06/07
Ms. Rong Shi	Pharmaceutics	FY 06/07
Mr. Zhaohua Wang	Pharmaceutics	FY 06/07
Mr. Pranav Gandhi	Pharmaceutical Outcomes and Policy	FY 06/07
Mr. Jason Kwan	Medicinal Chemistry	FY 05/06
Ms. Gina Patel	Pharmaceutics	FY 05/06
Ms. Jane Ritho	Pharmaceutical Outcomes and Policy	FY 05/06

21st Annual Research Showcase and Awards Recognition Day

A number of graduate students, post-doctoral fellows and professional students received cash awards and commemorative plaques for participating in the COP “**Annual Research Showcase and Awards Recognition Day**”. The specifics of this daylong event and the award winners are listed in **ORGS Coordinated Events for the COP**.

Special Awards and Recognition for Graduate Students

Elvin Price, a graduate student in the Department of Pharmacy Practice, was invited to give a presentation at the University of Arizona College of Pharmacy. His presentation was entitled “*Insights into Fibrate Response Gained from Translational Clinical Pharmacology and Pharmacogenetics*”.

Hemamalini Devarajan, a graduate student in the Department of Medicinal Chemistry, won third place in the student poster showcase at the **Annual Meeting of the Society of Cosmetic Chemists** for her poster entitled “*Modeling of Flux Through Polydimethyl Siloxane (PDMS) Membrane*”.

UF Graduate Student Forum Awards

The Graduate Student Forum of the University of Florida was held on Monday, April 14, 2008. There was a total of sixty eight graduate students who participated in the poster session and sixty one graduate students in the panel session from among all areas of the university. The College of Pharmacy has two graduate students participate in the poster competition of the forum, Ayad Ali, from the Department of Pharmaceutical Outcomes and Policy, and Vinayak Shenoy, from the Department of Pharmaceutics.

Graduate Minority Activities

The ORGS has continued to work with the Graduate School's Office of Graduate Minority Programs (OGMP) and its Associate Dean, Laurence B. Alexander, in recruiting minority students into the College's graduate programs. This year we submitted 50 complete application packages along with individual departmental brochures to the OGMP to be distributed amongst various minority schools in the nation. The ORGS continued to filter information down to individual departments concerning funding opportunities for both graduate minority students as well as undergraduate minority students interested in a research career.

Names of interested minority students were passed on to the respective departmental chairs or graduate coordinators by Dr. Michael McKenzie, Associate Dean for Professional Affairs, following his various recruiting trips to colleges for our professional program. His report should identify all schools he visited. Each Department then follows up with a letter and application packet to the student(s) outlining their respective graduate program and its objectives.

Research Activities in the College of Pharmacy

Grant and Contract Efforts and Funding

Pharmaceutical research continues to be a major effort within the College of Pharmacy at the University of Florida. According to the American Association of Colleges of Pharmacy (AACCP) annual listing of Colleges of Pharmacy and their placement relative to Schools of Pharmacy engaged in active pharmaceutical research, the University of Florida was ranked 20th this past year out of 60 schools with research programs (**Table 13**). These placements are based solely on fiscal year NIH funding (October to September of a given year).

Table 13: AACCP Statistics for NIH Funding					
NIH Fiscal Year	NIH Support	Rank	FTE Ph.D.'s	NIH Support/ FTE- Ph.D.	Rank
2003	\$6,064,002	15	27	\$224,593	12
2004	\$5,599,586	13	34	\$164,691	21
2005	\$5,999,517	13	35	\$171,415	18
2006	\$7,223,656	12	35	\$206,390	12
2007	\$4,959,305	20	35	\$141,694	23

Our faculty members continue to be productive and are making efforts to obtain more extramural support for their individual research efforts. During this year the ORGS processed a total of 123 extramural grant or contract applications from the five Departments and our Administrative Office (**Table 14**) for a total of \$73,465,145 in **new** grant dollars. This is a 12.8% decrease in total dollars requested when compared to FY 06/07 (see **Table 15**). The majority (76.4%) of new proposals within the COP are proposals in which the Principal Investigator (PI) is a faculty member within the COP (**Tables 14 and 15**). Research faculty members are also encouraged to collaborate with other units within the University. Twenty-four percent of grants submitted were originated outside of the College of Pharmacy.

Table 16 shows total extramural research dollars brought into the College over the last five academic years (from July to June of a given fiscal year). This year our research funding dollars totaled \$7,875,419 with 93 individual awards coming into the College of Pharmacy. This represents a slight decrease in total research funding dollars of 4% and a 4.1% decrease in number of awards from FY 06/07.

During FY 07/08 departmental comparisons show that Pharmacy Practice brought in the highest total of research dollars within the COP at 37% (\$2,912,295). Medicinal Chemistry was second at 31.4% (\$2,473,708); followed by Pharmaceuticals at 18.6% (\$1,461,958); Pharmacodynamics at 9% (\$705,761); and Pharmaceutical Outcomes and Policy at 4.1% (\$321,697).

TOTAL EXTRAMURAL FUNDING to the COP is illustrated in **Table 17**. Total extramural support includes not only **RESEARCH** funds (also found in **Table 16**) but also those **ADMINISTRATIVE** funds that included support for educational training activities. This year **ADMINISTRATIVE** funds showed an 80.2% decrease from the previous academic year largely because of professional service contracts at the Veterans Administration Hospital and Shands Jacksonville were discontinued.

The combination of a 4% decrease in **RESEARCH** funds and an 80% decrease in **ADMINISTRATIVE** funds provided the College of Pharmacy with a 5.9% decrease overall in FY 07/08 from FY 06/07 when **Total Extramural Funding** is considered (**Tables 17 and 18**).

Table 14: Proposal Processing Summary

Department	Inside the College	Outside the College	Total
College Total			
# Proposals	94	29	123
Total Amount	57,356,151	16,108,994	73,465,145
Administration			
# Proposals	0	0	0
Total Amount	0	0	0
Medicinal Chemistry			
# Proposals	16	4	20
Total Amount	13,442,073	1,918,092	15,360,165
Pharmaceutics			
# Proposals	28	5	33
Total Amount	\$20,373,984	\$1,463,625	\$21,837,609
Pharmacodynamics			
# Proposals	14	8	22
Total Amount	\$9,087,728	\$6,832,248	\$15,919,976
Pharm. Outcomes and Policy			
# Proposals	12	3	15
Total Amount	\$1,869,048	\$2,275,246	\$4,144,294
Pharmacy Practice			
# Proposals	24	9	33
Total Amount	\$12,583,318	\$3,619,783	\$16,203,101

Inside the College = PI was a COP faculty member; Outside the College = PI was outside the COP; COP personnel were co-investigators

Table 15: Proposal Processing Comparison

Fiscal Year	Inside the College	Outside the College	Total
FY 06/07			
# proposals	92	24	116
Total Amount	\$67,398,533	\$16,855,001	\$84,253,534
FY 07/08			
# proposals	94	29	123
Total Amount	\$57,356,151	\$16,108,994	\$73,465,145

Inside the College = PI was a COP faculty member; Outside the College = PI was outside the COP; COP personnel were co-investigators

Table 16: Extramural Research Dollars - FY 03/04 to FY 07/08

Department	03/04	04/05	05/06	06/07	07/08	03/04 - 07/08	% of total
COLLEGE TOTAL	\$8,071,132	\$6,743,553	\$8,803,441	\$8,207,025	\$7,875,419	\$7,940,114	100.00%
IDC	\$1,684,597	\$1,374,914	\$1,819,550	\$1,562,806	\$1,478,082	\$1,583,990	100.00%
# grants	102	82	103	97	93	95	
%IDC	26.4%	25.6%	26.1%	23.5%	23.1%	24.9%	
Medicinal Chemistry	\$3,549,799	\$2,479,168	\$2,410,972	\$3,036,954	\$2,473,708	\$2,790,120	35.14%
IDC	\$772,705	\$618,457	\$554,326	\$704,644	\$612,179	\$652,462	41.19%
# grants	23	13	23	25	16	20	
%IDC	27.8%	33.2%	29.9%	30.2%	32.9%	30.8%	
Pharmaceutics	\$1,628,328	\$1,115,239	\$1,339,450	\$1,426,898	\$1,461,958	\$1,394,375	17.56%
IDC	\$246,029	\$83,161	\$274,257	\$207,786	\$321,932	\$226,633	14.31%
# grants	33	27	27	25	20	26.4	
%IDC	17.8%	8.1%	25.7%	17.0%	28.2%	19.4%	
Pharmacodynamics	\$812,774	\$1,434,709	\$1,597,340	\$567,993	\$705,761	\$1,023,715	12.89%
IDC	\$233,559	\$361,146	\$466,000	\$162,727	\$195,501	\$283,787	17.92%
# grants	8	16	17	12	7	12	
%IDC	40.3%	33.6%	41.2%	40.2%	38.3%	38.7%	
Pharm. Outcomes & Policy	\$100,000	\$366,007	\$182,532	\$422,547	\$321,697	\$278,557	3.51%
IDC	\$0	\$33,892	\$18,282	\$63,300	\$72,864	\$37,668	2.38%
# grants	7	10	8	8	5	7.6	
%IDC	0.0%	10.2%	11.1%	17.6%	29.3%	13.6%	
Pharmacy Practice	\$1,980,230	\$1,348,430	\$3,273,147	\$2,752,633	\$2,912,295	\$2,453,347	30.90%
IDC	\$432,305	\$278,258	\$506,684	\$424,348	\$275,606	\$383,440	24.21%
# grants	31	16	28.0	27.0	45.0	29.4	
%IDC	27.9%	26.0%	18.3%	18.2%	10.5%	20.2%	

IDC = indirect costs

Table 17: Total Extramural Support - FY 03/04 to FY 07/08

Dept.	03/04	04/05	05/06	06/07	07/08	Average 03-07
COLLEGE TOTAL	\$9,430,915	\$7,221,540	\$9,216,892	\$8,409,451	\$7,915,561	\$8,438,872
IDC	\$1,685,890	\$1,374,914	\$1,819,550	\$1,562,806	\$1,491,192	\$1,586,870
# grants	113	88	106	98	94	99.8
%IDC	21.8%	23.5%	24.6%	22.8%	23.2%	23.2%
RESEARCH	\$8,071,132	\$6,743,553	\$8,803,441	\$8,207,025	\$7,875,419	\$7,940,114
IDC	\$1,684,597	\$1,374,914	\$1,819,550	\$1,562,806	\$1,478,082	\$1,583,990
# grants	102	82	103	97	93	95.4
%IDC	26.4%	25.6%	26.1%	23.5%	23.1%	24.9%
ADMINISTRATION	\$1,359,783	\$477,987	\$413,451	\$202,426	\$40,142	\$498,758
IDC	\$1,293	\$0	\$0	\$0	\$13,110	\$2,881
# grants	11	6	3	1	1	4.4
%IDC	0.1%	0.0%	0.0%	0.0%	48.5%	9.7%

IDC= indirect costs

Outlined below in **Table 18** is a breakdown of the COP extramural support by sponsor type and number of awards for the last two fiscal years. The College's main source of extramural support continues to be from Federal Agencies. Federal dollars were earmarked entirely for research purposes and showed a 12.8% decrease in dollars as well as a 39.5% decrease in the number of awards this year from FY 06/07. State dollars were decreased by 46.6%; Corporations and Companies showed a 40.4% increase in dollars received and a 34.5% increase in the number of awards received; and Foundation and Society monies showed a 44.3% increase in the dollars received as well as a 21.1% increase in the number of awards received compared to FY 06/07. The College experienced a significant decrease in funding within the "Other" funding category from the previous year. Within this "Other" category are funds that include *Miscellaneous Donor* monies or funds in which faculty members have unrestricted use to support their individual research programs.

Table 18: Comparison by Sponsor				
Sponsor Category	FY 06/07		FY 07/08	
	# of Awards	Total Dollars	# of Awards	Total Dollars
Federal Agencies	42	\$6,328,472	26	\$5,517,117
Florida State Agencies	5	\$616,281	5	\$329,011
Corporations and Companies	29	\$859,302	39	\$1,206,139
Foundations & Societies	19	\$598,213	23	\$862,994
Other	2	\$7,000	1	\$300
Total Comparison	97	\$8,409,268	94	\$7,915,561

A more complete breakdown and two-year comparison of sponsor categories, number of awards and total dollars including indirect costs can be seen in **Tables 19-23**. In **Appendix B** a complete listing of all extramural support by Department and Faculty members can be found.

Table 19: Federal Agencies Comparison						
Sponsor	FY 06/07			FY 07/08		
	Count	Total	IDC	Count	Total	IDC
AHCA	1	\$47,200	\$0			
NIH	38	\$5,836,578	\$1,344,267	24	\$5,433,428	\$1,158,669
U.S. Army				1	\$40,142	\$13,110
U.S. Dept. of Agriculture	1	\$317,933	\$0			
U.S. Dept. of Veteran Affairs	1	\$63,945	\$0	1	\$43,547	\$0
Smithsonian Institution	2	\$62,999	\$18,137			
Total Federal Agencies	43	\$6,328,655	\$1,362,404	26	\$5,517,117	\$1,171,779

IDC = indirect costs

Table 20: State Agencies Comparison						
Sponsor	FY 06/07			FY 07/08		
	Count	Total	IDC	Count	Total	IDC
Department of Health	5	\$616,281	\$26,701	5	\$317,418	\$11,593
Total Florida State Agencies	5	\$616,281	\$26,701	5	\$317,418	\$11,593

IDC = indirect costs

Table 21: Corporations and Companies Comparison

Sponsor	FY 06/07			FY 07/08		
	Count	Total	IDC	Count	Total	IDC
Abbott Laboratories	1	\$7,829	\$1,566			
Alcon Research				1	\$50,000	\$10,317
Altus Pharmaceuticals				5	\$56,395	\$11,279
American Home Products				1	\$12,500	\$2,500
BioLine Rx	1	\$3,464	\$1,099			
Finzelberg GMBH & Co. KG	1	\$18,579	\$3,716	3	\$67,496	\$13,500
Genentech, Inc.				3	\$22,424	\$4,485
Glaxo Smith Kline, Inc.	1	\$1,500	\$300	2	\$27,281	\$5,456
Glycadia	1	\$2,520	\$504			
Golin-Harris Int'l., Inc.	1	\$5,000	\$1,257			
IVAX Corporation	3	\$78,700	\$7,155	2	\$53,930	\$10,786
Johnson & Johnson	5	\$173,300	\$42,092	4	\$234,845	\$49,552
MAP Pharmaceuticals	1	\$6,250	\$1,250			
Max Zeller Sohne						
Merck & Company, Inc.	1	\$50,000	\$0	3	\$129,533	\$4,922
Merck Selbstmedikation GMBH	1	\$10,979	\$2,196			
Novartis - United States	4	\$133,533	\$26,706	1	\$30,000	\$6,000
Noven Pharmaceuticals	1	\$14,310	\$2,862			
Palatin Technologies, Inc.				1	\$9,500	\$0
Pascoe GMBH				1	\$30,138	\$6,028
Pfizer, Inc.	2	\$161,051	\$12,210	1	\$100,000	\$0
RFE Pharma				1	\$2,925	\$585
SkyePharma	3	\$20,940	\$4,188	6	\$53,225	\$10,645
SmithKline Beecham	1	\$150,000	\$30,000			
Steigerwald Arzneimittelwerk	1	\$21,347	\$4,269	1	\$43,985	\$8,797
Trius Therapeutics				3	\$281,963	\$56,393
Total Corporations & Companies	29	\$859,302	\$141,370	39	\$1,206,139	\$201,244

IDC = indirect costs

Table 22: Foundations & Societies Comparison

Sponsor	FY 06/07			FY 07/08		
	Count	Total	IDC	Count	Total	IDC
Am. College of Clinical Pharmacy				1	\$30,000	\$0
Am. Diabetes Association	1	\$100,000	\$13,043	2	\$100,000	\$13,044
Am. Foundation for Pharmaceutical Edu.	1	\$5,000	\$0			
Am. Heart Association - FL	5	\$239,198	\$15,273	9	\$429,381	\$26,807
James S. McDonnell Foundation	2	\$7,173	\$0			
Natl. Association Boards of Pharmacy				1	\$191,008	\$60,627
Nemours Children's Clinic	7	\$20,250	\$1,841	7	\$35,788	\$3,774
Rho Chi Society - Eli Lilly Corporation	1	\$7,500	\$0			
Shands Teaching Hospital				1	\$59,000	\$0
Shands Jacksonville Medical Center	1	\$202,426	\$0			
UF Foundation						
U.S.-Israel Binational Science Fdtn.	1	\$16,666	\$2,173	2	\$17,817	\$2,324
Total Foundations & Societies	19	\$598,213	\$32,330	23	\$862,994	\$106,576

IDC = indirect costs

Table 23: Other Comparison

Sponsor	FY 06/07			FY 07/08		
	Count	Total	IDC	Count	Total	IDC
Miscellaneous Donors	2	\$7,000	\$0	1	\$300	\$0
Total Other	2	\$7,000	\$0	1	\$300	\$0

IDC = indirect costs

Licensing and Royalty Income

Through licensing and maintenance fees the College of Pharmacy generated a total of \$150,000 in revenues during FY 07/08. These monies were distributed to the College as outlined in the UF IP distribution policy.

Graduate Student Research Activities

Mark Allen, a graduate student in the Department of Pharmaceutical Outcomes and Policy working with Dr. Carole Kimberlin, received a one year, \$6,000 award from the **American Foundation for Pharmaceutical Education (AFPE)** for his project entitled “*Development and Validation of the Medication Affordability Scale*”.

April Barbour, a graduate student in the Department of Pharmaceutics working with Dr. Hartmut Derendorf, received the Student/Trainee Award from the **American College of Clinical Pharmacology (ACCP)** for her abstract entitled “*Combination of Clinical Microdialysis and In Vitro Pharmacodynamics for Dose Optimization of Beta-lactam Antibiotics*”. Ms. Barbour received a \$1,000 honorarium, an engraved certificate and a complimentary registration to the 37th Annual ACCP Meeting in Philadelphia, PA.

Anzeela Schentrup, a graduate student in the Department of Pharmacy Practice working with Dr. Julie Johnson, received a one year, \$6,000 award from the **American Foundation for Pharmaceutical Education (AFPE)** for her project entitled “*Role of the Arachidonate 5-Lipoxygenase Enzymatic Pathway in Coronary Heart Disease*”. Dr. Schentrup also received a \$20,000 Dissertation Fellowship stipend for 2008-2009 from the **American Association of University Women (AAUW)** to allow her to complete her dissertation project.

Oliver Grundmann, a graduate student in the Department of Pharmaceutics working with Dr. Veronika Butterweck, received a \$150 cash award from the **American Society of Pharmacognosy (ASP)** for his poster entitled “*Evaluation of Anxiolytic-like Activity of an Extract and Fractions Prepared from Apocynum Venetum L. in the Elevated Plus Maze*” at the ASP Annual Meeting in Portland, ME.

Stephan Schmidt, a graduate student in the Department of Pharmaceutics working with Dr. Hartmut Derendorf, received the **American College of Clinical Pharmacology (ACCP) Student/Trainee Award** for his abstract entitled “*Linezolid Against MRSA-A New Modeling Approach*”. Mr. Schmidt received a \$1,000 honorarium and complimentary registration to the ACCP Annual Meeting in San Francisco, CA.

Stephen Phipps, a graduate student in the Department of Pharmaceutics working with Dr. Veronika Butterweck, received a \$1,800 travel award from the **Society of Medicinal Plant Research (SMPR)** to present his poster entitled “*Digitization of the Compulsive Gnawing Test and its use in Assessing Various Extracts of Salvia Divinorum*” at the SMPR Annual Meeting in Athens, Greece.

Hrishikesh Navare, a graduate student in the Department of Pharmacy Practice working with Dr. Julie Johnson, received a \$250 cash award and a plaque from the **American Society for Clinical Pharmacology and Therapeutics (ASCPT)** for his paper entitled “*CACNA1C Polymorphisms and Cardiovascular Outcomes in the International Verapamil SR/Trandolapril Study-GENETic Substudy (INVEST-GENES)*” at the ASCPT Annual Meeting in Orlando, FL. Mr. Navare also received a two-year, \$21,770 pre-doctoral fellowship from the **American Heart Association (AHA)** to support his project entitled “*Atenolol Exposure as Risk for Adverse Metabolic Responses to Beta Blockers*”.

Huong Le, a graduate student in the Department of Pharmaceutics working with Dr. Jeff Hughes, received a \$500 travel award from **The American Society of Gene Therapy (ASGT)** to present her project entitled “*Design and Characterization of Polymeric Nanoparticles Containing Conjugated Phospholipase A₂ for Non-viral Gene Delivery*” at the ASGT Annual Meeting in Boston, MA.

Christian Grimstein, a graduate student in the Department of Pharmaceutics working with Dr. Sihong Song, received a \$1,000 travel award from the **American Association of Pharmaceutical Scientists (AAPS)** to participate in the *Graduate Student Symposium* in Toronto, Canada. Mr. Grimstein also received a \$500 travel award from **The American Society of Gene Therapy (ASGT)** to present his work entitled “*Alpha1 Antitrypsin Gene Therapy in Collagen-induced Arthritis*” at the ASGT Annual Meeting in Boston, MA.

Pattaraporn Vanachayangkul, a graduate student in the Department of Pharmaceutics working with Dr. Veronika Butterweck, received a \$1,000 travel award from the **American Society of Pharmacognosy (ASP)** to present her paper entitled “*Prevention of Kidney Stone Formation by Ammi visnaga L.*” at the ASP Annual Meeting in Athens, Greece.

Elvin Price, a graduate student in the Department of Pharmacy Practice working with Dr. Issam Zineh, received a \$250 cash award and a plaque from the **American Society for Clinical Pharmacology and Therapeutics (ASCPT) Presidential Trainee Award** for his work entitled “*Fenofibrate Modulates Endothelial Cell Production of IL-8 and ENA-78 in a Dose-dependent Fashion*” at the ASCPT Annual Meeting in Orlando, FL. Mr. Price also received a \$750 travel award and one year free American Heart Association membership from the **Council on Basic Cardiovascular Sciences (BCVS) Minority Travel Grant** to attend the **American Heart Association (AHA) Scientific Sessions** in Orlando, FL. Mr. Price also received a certificate as a finalist from the **American Colleges of Clinical Pharmacology (ACCP)** for his poster entitled “*Fenofibrate Effects of Endothelial Colony-stimulating Factor Projection under Inflammatory Conditions*” at the 2007 Annual ACCP Meeting in Denver, CO.

Wenjun Li, a graduate student in the Department of Medicinal Chemistry working with Dr. Margaret James, received a \$500 travel award from the **National Institute of Environmental Health Sciences** to present her poster entitled “*Inhibition of Estrogen Sulfotransferase by the Personal Care Product, Triclosan, in Sheep Placenta*” and attend their meeting in Durham, NC.

Professional Student Research Activities

As the understanding of the development of new pharmaceutical agents and streamlining the drug use process is an integral part of a pharmacy student’s education, the College of Pharmacy offers a series of “**Problems In Pharmacy**” courses that expose students to various aspects of the research process. Each department in the College offers a “**Problems In Pharmacy**” course that is designed to specifically target their individual research areas. In addition to the “**Problems In Pharmacy**” courses, professional students interested in research select faculty mentors and submit grant or fellowship applications to outside funding agencies to support their research efforts. This year we had 5 professional student secure extramural funds from six different funding agencies and they are listed below:

Eric Egelund, a professional student working with Drs. Julie Johnson and John Lima in the Department of Pharmacy Practice, received a \$500 travel award from the **University of Florida** to present his paper entitled “*Transporter Mediated Absorption of Montelukast in a Caco-2 Model System*” at the **American Society for Clinical Pharmacology and Therapeutics (ASCPT) Annual Meeting** in Orlando, FL.

Jessica Enogieru, a professional student working with Dr. Reginald Frye in the Department of Pharmacy Practice, received a \$500 travel award from the **University of Florida** to present her paper entitled “*Changes in Coenzyme Q10 (COQ10) Following High-dose Atorvastatin Therapy*” at the **American Society for Clinical Pharmacology and Therapeutics (ASCPT) Annual Meeting** in Orlando, FL. Ms. Enogieru also received a \$5,300 award from the **American Heart Association (AHA)** for her paper entitled “*Polymorphisms in the Beta Arrestin 1 Gene (ARRB1)*”.

Michael Martin, a professional student working with Dr. Issam Zineh in the Department of Pharmacy Practice, received a \$500 travel award from the **University of Florida** to present his paper entitled “*MADD Variants and Risk of Cardiovascular Events in the International Verapamil SR/Trandolapril Study-GENetic Substudy (INVEST-GENES)*” at the **American Society for Clinical Pharmacology and Therapeutics (ASCPT) Annual Meeting** in Orlando, FL.

Ryan Rodriguez, a professional student working with Dr. Julie Johnson in the Department of Pharmacy Practice, received a \$4,327 award from the **National Institute of Health (NIH) Minority Students Program** for his paper entitled “*Cardiovascular Responses in Non-white Populations Involving the Gene GNAS*”.

William Robertson, a professional student working with Dr. Amber Beitelshees in the Department of Pharmacy Practice, received a \$5,300 award from the **American Heart Association (AHA)** for his paper entitled “*Uncoupling Protein Polymorphisms and Beta-blockers Effects in Heart Failure*”.

Gregory Welder, a professional student working with Dr. Issam Zineh in the Department of Pharmacy Practice, received a \$300 travel award and complimentary registration from the **American College of Clinical Pharmacy (ACCP)** to present his poster entitled “*Atorvastatin Inhibits Interleukin 1-beta-induced Production of Epithelial Neutrophil Activating Peptide from Human Endothelial Cells in a Dose-dependent Fashion*” at the ACCP Annual Meeting in Denver, CO. Mr. Welder also received a \$1,500 honorarium, a \$1,000 travel award and a plaque from the **American Society of Health-System Pharmacists (ASHP) Foundation Literature Award** to present his paper entitled “*Complementary and Alternative Medicine (CAM) Use Among Individuals Participating in Research: Implications for Research and Practice*” at the ASHP Midyear Clinical Meeting in Las Vegas, NV.

Shannon Zandy, a professional student working with Dr. Joanna Peris, Associate Professor in the Department of Pharmacodynamics, received a one year, \$5,000 award from the **American Foundation for Pharmaceutical Education** for her project entitled “*Neurochemical Changes Associated with Increased Motivation for Ethanol Self-administration*”.

Post-doctoral Fellow Research Activities

Dr. Michael Pacanowski, a post-doctoral fellow in the Department of Pharmacy Practice working with Dr. Julie Johnson, recently graduated from the Master of Public Health/Advanced Postgraduate Program in Clinical Investigation and was the first recipient of the *Outstanding Student Award in Epidemiology*. In the past year, Dr. Pacanowski continued work on a study entitled “*Genetic Polymorphisms and Diabetes: Associations in Antihypertensive Drug Pathways*”, which is funded by the **American Heart Association Postdoctoral Fellowship** (2 years, \$93,224). Based on his work on this and other projects, he presented two posters at the **American Society of Clinical Pharmacology and Therapeutics** Annual Meeting in Orlando, FL, and received the M. Kelli Jordan Fellowship Travel Award (\$750) to present his research at the **American College of Clinical Pharmacy** Annual Meeting in Denver, CO. He has since published two manuscripts, as well as two review articles. Additionally, he co-authored a book chapter on Cardiovascular Pharmacogenomics for the **American Heart Association** and presented a workshop on pharmacogenomics at the **American College of Clinical Pharmacy Spring Practice and Research Forum** in Phoenix, AZ.

U.S.-Thai Consortium Activities

History of the U.S.-Thai Consortium

In 1993, the University of Florida College of Pharmacy, nine other U.S. Pharmacy Schools and the American Association of Colleges of Pharmacy entered into an international agreement with all nine (at that time) Thailand Colleges of Pharmacy which together designated the U.S.-Thai Consortium Agreement.

The mission of this U.S.-Thai agreement is to provide Thai pharmacists (faculty at the various Thai pharmacy schools), that are selected by a Royal Thai Government Panel, the opportunity for advanced professional (Pharm.D.) or graduate (Ph.D.) study in programs in the selected U.S. pharmacy schools. In return, the Royal Thai government will pay all stipend and tuition costs for these students for a period of five years and provide return favors for both professional students and faculty to visit Thailand and become involved in post-graduate pharmacy education abroad. Furthermore, the initial agreement was for the Thai government to support, and the U.S. colleges to educate, 100 Thai faculty members (i.e., approximately 10 students per U.S. college) over the ensuing 10 years.

As part of the original charter, it was agreed that all parties would meet once a year to discuss the progress of the U.S.-Thai Consortium. These annual meetings would be held in either Thailand or the U.S. on alternating years. The first meeting was held in Bangkok, Thailand in 1994; at Purdue University in 1995; at Phuket, Thailand in 1996; in Baltimore, MD in 1997; Chiang Mai, Thailand in 1998; Orlando, FL in 2000; Bangkok, Thailand in 2002; Chicago, IL in 2004; and Bangkok, Thailand in 2007.

Current List of Thai and U.S. Schools of Pharmacy in the Consortium

Thai	U.S.
1. Chulalongkorn University	1. University of Florida
2. Mahidol University	2. Purdue University
3. Khon Kaen University	3. Ohio State University
4. Srinakharinwirot University	4. University of Wisconsin
5. Prince of Songkla University	5. University of Arizona
6. Silpakorn University	6. University of Minnesota
7. Ubon Ratchathani University	7. University of Illinois at Chicago
8. Chiang Mai University	8. University of Maryland at Baltimore
9. Naresuan University	9. University of North Carolina
10. Thammasat University	10. Rutgers University

10th U.S.-Thai Pharmacy Education Consortium Meeting

The 10th U.S.-Thai Pharmacy Education Consortium meeting will be held July 15-18, 2008 in Madison, WI. Dr. Earlene Lipowski, Associate Professor in the Department of Pharmaceutical Outcomes and Policy, will attend this meeting as a representative from the University of Florida.

Thai Students in the College of Pharmacy

Listed below (**Table 24**) are the Thai students enrolled during FY 07/08 and those who have received Royal Thai Scholarships from their government to study abroad for either their Ph.D. or PharmD degree.

Table 24: Thai Students			
Name	Department	THAI Pharmacy College	Date Entered
Mr. Sawaeng Watcharathanakij	Pharmaceutical Outcomes and Policy	Mahidol	August, 2002
Ms. Sasiporn Sarawek	Pharmaceutics	Chiang Mai	January, 2003
Ms. Pattaraporn Vanachayangkul *	Pharmaceutics	Chiang Mai	August, 2004

* not a Royal Thai Scholar

ORGS Coordinated Events

Two major COP functions are coordinated by the ORGS, the Post-baccalaureate Reception and the Annual Research Showcase and Awards Recognition Day. These events are described below.

Post-baccalaureate Reception

The annual Post-baccalaureate Reception is held at the beginning of the Fall Semester as an event to introduce all **new** faculty, graduate students, post-doctoral fellows and research associates to the COP community. This year the event was held on Wednesday, September 5, 2007, in the Rion Ballroom at the Reitz Student Union from 6:00 PM to 9:00 PM. This year we had 111 faculty, staff and students. At the reception this year 16 new graduate students, 1 new faculty, and a number of new post-doctoral fellows, research associates and visiting scientists were introduced to the college.

Annual Research Showcase and Awards Recognition Day

The 21st Annual Research Showcase and Awards Recognition Day took place on Thursday, February 21, 2008, at the University of Florida, College of Pharmacy. A program booklet (**Appendix C**) is included that outlines the days events, a complete list of competitors for each of the divisions and the judges for each of the events.

This year's Showcase and Awards Recognition Day could not have taken place without the financial backing of our many sponsors. Our major sponsor this year was **Dr. Robert G. and Maria Bell** of Palm Harbor, Florida, and Ph.D. Class of 1988. Other long time supporters are **Dr. Maureen McKenzie** of Soldotna, Alaska, through *DENALI BioTechnologies, LLC*; *American College of Clinical Pharmacology*; and **Dr. Robert A. and Phyllis Levitt** of Boca Raton and Gainesville, Florida and Ph.D., Class of 1961, sponsoring the *Levitt Division* of the Oral Competition. For a complete list of our sponsors please refer to the program booklet.

The Showcase and Awards Recognition Day is full of excitement and discovery, as graduate students, pharmacy students and post-doctoral fellows from throughout the College compete (via posters and platform presentations) for the distinction of being the "*best*" in one of the following categories:

Oral Competition

- Senior Graduate Division
- Junior Graduate Division
- Levitt Division

Poster Competition

- Post-doctoral Fellow Division
- Pharmacy Student Division
- Graduate Student Division

The finalists for the oral competition divisions submitted competitive abstracts that were reviewed and selected by the Graduate Studies Committee within the College. The *Senior Graduate Division* of the Oral Competition applies to those graduate students who are in the final stages of their graduate education. The *Junior Graduate Division* pertains only to graduate students who are in the first two years of their graduate program. The *Levitt Division* was established in 1993 to recognize those graduate students who are doing graduate work related in the areas of health outcomes research or related translational research in the clinical sciences.

The finalists in each of the oral divisions give a 12-15 minute presentation followed by a 3-5 minute question/answer period. Based on the student's abstract and their presentation, a winner in each division is selected by a panel of judges. Winners receive a \$600 cash award and commemorative plaque. Each of the finalists receives a \$300 cash award and a commemorative plaque.

Judges for the oral competition were: **Dr. Marcus Brewster**, Head, ChemPharm Research and Early Development, Scientific Officer, Chemical and Pharmaceutical Development, Belgium; **Dr. Shashank Rohatagi**, Executive Director, Clinical Pharmacology – Modeling and Simulation, Daiichi – Sankyo Pharma Development; **Dr. Russell Weiner**, Director, Clinical Biomarker Development, Bristol-Myers Squibb; **Dr. Debbie Wilson**, Post-doctoral Fellow, Rehabilitation Outcomes Research Center.

The winners of the oral competition are:

	Senior Division – winner	
Christian Grimstein	Pharmaceutics	\$600 cash award
Title: “ <i>Protein and Gene Therapy for Rheumatoid Arthritis: Protease Inhibitor Alpha 1 Antitrypsin (AAT) Suppresses Experimental Arthritis in Mouse Model</i> ”		
	Senior Division – finalists	
Zhimin Li	Pharmacodynamics	\$300 cash award
Title: “ <i>Neuronal Mechanisms of Increasing Motivation of Operant Ethanol Self-administration Caused by Intermittent Binge Exposures</i> ”		
Anzeela Schentrup	Pharmacy Practice	\$300 cash award
Title: “ <i>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)</i> ”		
	Junior Division – winner	
Jason Kwan	Medicinal Chemistry	\$600 cash award
Title: “ <i>Marine Natural Products for Drug Discovery</i> ”		
	Junior Division – finalists	
Huong Le	Pharmaceutics	\$300 cash award
Title: “ <i>Construction and Characterization of Human Melanocortin-2 and -4 Chimeras</i> ”		
Zhaohua Wang	Pharmaceutics	\$300 cash award
Title: “ <i>Memory Improvement in the APP/PS1 Mice Model through AAV-8 Gelsolin Delivery</i> ”		
	Levitt Division – winner	
Michael Mueller	Pharmaceutical Outcomes and Policy	\$600 cash award
Title: “ <i>Family Caregiver Quality of Life – The Impact of Demands of Caregiving, Medication Administration and Stress in a Pediatric Oncology Setting</i> ”		
	Levitt Division – finalist	
Chienning Hsu	Pharmaceutical Outcomes and Policy	\$300 cash award
Title: “ <i>The Impact of Medication Adherence on Cost Effectiveness of Anti-HCV Therapy among Patients with HCV Infection</i> ”		

For the poster competition this year we had a record high of 52 posters from graduate students, pharmacy students and post-doctoral fellows on display in the Reception Area of the Health Profession, Nursing and Pharmacy Building (HPNP). The posters were manned between 9:30 AM and 11:30 AM when individual judging took place. The winners in each of the divisions received a \$300 cash award and a commemorative plaque.

The poster judges were: **Dr. Amber Beitelshees**, Assistant Professor, Department of Pharmacy Practice, College of Pharmacy; **Dr. Robert Bell**, President and CEO, Drug & Biotechnology Development, LLC; **Dr. Maureen McKenzie**, Chief Executive Officer, DENALI BioTechnologies, LLC; **Dr. Scott Wasdo**, Research Assistant Professor, Department of Anesthesiology, College of Medicine; **Dr. Alistair Webb**, Professor and Associate Chair, Department of Physiological Sciences, College of Veterinary Medicine; **Dr. Debbie Wilson**, Post-doctoral Fellow, Rehabilitation Outcomes Research Center.

The winners of the poster competition are:

<i>Graduate Student Division – winners</i>		
April Barbour	Pharmaceutics	\$300 cash award
Title: “Soft Tissue Penetration of an Investigational Antibiotic in Healthy Volunteers”		
Christian Hampp	Pharmaceutical Outcomes and Policy	\$300 cash award
Title: “Prevention of Respiratory Syncytial Virus Infections in Florida”		
Stephan Schmidt	Pharmaceutics	\$300 cash award
Title: “Protein Binding – A Source for Many Pitfalls”		
Kanchan Taori	Medicinal Chemistry	\$300 cash award
Title: “Discovery of Structurally Diverse Natural Products from Marine Cyanobacteria through Phenotypic and Target-based Screening”		
<i>Pharmacy Student Division – winners</i>		
Samantha Barfield	Pharmacy Practice	\$300 cash award
Title: “Quality of Oral Anticoagulation in a Pharmacy-managed Anticoagulation Clinic”		
Gregory Welder	Pharmacy Practice	\$300 cash award
Title: “Atorvastatin Regulates Global Inflammatory and Anti-inflammatory Gene Expression in Human Endothelial Cells”		
<i>Post-doctoral Fellow Division – winner</i>		
Dr. Yanxia Liu	Medicinal Chemistry	\$300 cash award
Title: “Genome-wide Overexpression Screen for Activators of the Antioxidant Response Element”		

Other ORGS Activities

In addition to the two major functions coordinated by the ORGS (Post-baccalaureate Reception and the Annual Research Showcase and Awards Recognition Day) other activities were performed or attended by ORGS personnel as outlined below.

Committee Assignments

The Executive Associate Dean served on various College, Health Science Center and University Committees throughout the academic year.

COLLEGE COMMITTEES

- **Executive Council**: This committee met each month throughout the year to discuss relevant issues related to the daily operations of the College and long-range planning. Chaired by the Dean of the College, this committee is integral to assisting the Dean in making decisions on major initiatives in the College.
- **Graduate Studies Committee**: Please see **Graduate Education and Program Activities**; **Graduate Studies Committee (GSC) Activities** for details and activities of this committee throughout the year.
- **College Space Committee**: The Executive Associate Dean serves as chair of the College Space Committee. This committee was established to prepare a written policy document on allocation and reallocation of research and office space. The committee met once this academic year and will continue to meet as needed to revise policies and review any new edits regarding the utilization of research space in the future.
- **Faculty Governance Council**: The Executive Associate Dean serves as a non-voting ex-officio member of the Faculty Governance Council. The Faculty Governance Council (FGC) is comprised of faculty and the college administration who together make policies relevant to the faculty. The FGC met nine times this past year.
- **Self-study Steering Committee**: The Executive Associate Dean served as a member of the College's Self-study steering committee. This committee was involved in preparation of the report for the January 2007 site visit of the Accreditation Council for Pharmacy Education (ACPE). The ACPE is the governing body which accredits the college's professional degree programs. This committee met bi-weekly throughout most of the academic year to set guidelines, prepare surveys and write the sections for the self study report.

HEALTH SCIENCE CENTER (HSC) COMMITTEES

- **HSC Research Dean's Group**: This committee met monthly throughout the year to discuss relevant issues related to both basic and clinical research within the HSC and University.
- **Anatomical Specimen Task Force**: This committee met twice throughout the year to consider current and future policies and use of cadavers and human specimens within the Health Science Center teaching facilities.
- **HSC Traffic and Parking Task Force**: This committee met four times throughout the academic year to consider issues and establish policies related to parking and traffic patterns in and around the HSC.

UNIVERSITY COMMITTEES

- **Council of Graduate Deans**: This committee met once per semester during the academic year and was entrusted with making recommendations on major initiatives related to graduate education. The chair of this committee was Dr. Kenneth Gerhardt, Associate Dean for Graduate Programs.
- **Land Use Facilities Planning Committee**: The Executive Associate Dean was appointed to this committee for an additional three year term. This committee met monthly to provide recommendations to UF entities related to policies related to UF land use and facilities development. The breadth of this committee considered the land use for new building sites as well as planning for proposed renovation of existing buildings. Our charge was to also assist in the development and updating of the UF Master Plan related to land and building use.

- **University of Florida Community Campaign:** The Executive Associate Dean and the Executive Secretary served as the faculty and staff coordinators for the College's effort for this campaign. The duties included selecting departmental assistants as well as making sure information was distributed properly to all COP personnel.

Conferences Attended Related to ORGS and COP Activity

- **COP National Advisory Board:** The Executive Associate Dean attended the Fall 2006 (September) and Spring 2007 (April) National Advisory Board Meetings.
- **AACP Annual Meeting:** The Executive Associate Dean attended the 2006 AACP Annual Meeting in Orlando, FL from July 14th to July 18th, 2007.
- **SRA International Meeting:** The Program Assistant attended the 2007 Annual Society of Research Administrators (SRA) International Meeting in Nashville, TN from October 13th to October 17th, 2007.

Appendices

Section

A = Letter to Graduate Applicants

B = Complete Listing of Extramural Support by Department and Faculty

C = 21st Annual Research Showcase and Awards Recognition Day Booklet

Dear Applicant:

Thank you for your interest in graduate education in the College of Pharmacy at the University of Florida. The College of Pharmacy currently has four major areas of graduate concentration. These areas include Medicinal Chemistry, Pharmaceutics, Pharmacodynamics and Pharmaceutical Outcomes and Policy. In your letter you did not indicate which graduate area(s) of study you are interested in.

We ask at this time that you please specify your area of research concentration. In doing this you would certainly expedite the application process and minimize the receipt of extra information about areas of research you have no interest in.

All College of Pharmacy graduate programs can be accessed on the World Wide Web (<http://www.cop.ufl.edu>). Using the WWW you would get a comprehensive review of the underlying theme of each of our graduate programs as well as the faculty and their research interests. Furthermore, you can download all application and admission forms for graduate study at the University of Florida from this web site. I strongly encourage you to utilize this source of information (WWW), as this is your most efficient mechanism to apply to one or more of the graduate programs in the College of Pharmacy.

In the event that you do not have access to the WWW, listed below is each of the Graduate Programs in the College of Pharmacy. We have included a short overview of the area of graduate concentration with the name, address, phone number and e-mail address of the respective graduate coordinator.

Graduate Program in Medicinal Chemistry

Medicinal Chemistry is a unique blend of the physical and biological sciences. The scope of the field is sufficiently broad to give students with many different science backgrounds a rewarding and challenging program of study. Areas of active research include natural products, chemistry, drug delivery systems, organic synthesis of medicinal agents, metal chelate design, drug metabolism, molecular toxicology, molecular biology, analytical and forensic chemistry, molecular modeling and drug discovery. The department has excellent facilities for research in the major areas of Medicinal Chemistry and faculty have been highly successful in attracting extramural research support for the past several years.

Graduate Coordinator: Dr. Raymond Bergeron
Department of Medicinal Chemistry
PO Box 100485
College of Pharmacy, University of Florida
Gainesville, Florida 32610-0485
(352) 273-7726, E-mail: bergeron@mc.cop.ufl.edu

Graduate Program in Pharmaceutics

Research in the Pharmaceutics Department encompasses basic, applied, and clinical investigations in (i) pharmacokinetics/biopharmaceutics, (ii) pharmaceutical analysis, (iii) pharmaceutical biotechnology and drug delivery. In addition to teaching, all faculty members are involved in collaborative research projects with clinical and other basic scientists with the Health Center or on campus. Many maintain collaborative ties with scientists in other universities and the pharmaceutical industry worldwide.

Graduate Coordinator: Dr. Jeffrey Hughes
Department of Pharmaceutics
PO Box 100494
College of Pharmacy, University of Florida
Gainesville, Florida 32610-0494
(352) 273-7863, E-mail: hughes@cop.ufl.edu

Graduate Program in Pharmaceutical Outcomes and Policy

Drug therapy is the most widely used and efficacious treatment modality available for a variety of health disorders. However, problems (inappropriate prescribing, inadequate monitoring, and misuse of medication) with medication use are persistent and costly. Research and course of study in the Department of Pharmaceutical Outcomes and Policy focuses on various issues related to societal use of medications and include (i) estimating costs of drug-related morbidity and mortality, (ii) evaluating the prescribing process, medication use and related health care activities and, (iii) examining ways to improve prescribing and use of medications in various health care systems.

Graduate Coordinator: Dr. Richard Segal
Department of Pharmaceutical Outcomes and Policy
PO Box 100496
College of Pharmacy, University of Florida
Gainesville, Florida 32610-0496
(352) 273-6265, E-mail: segal@cop.ufl.edu

Graduate Program in Pharmacodynamics

The purpose of the graduate program in Pharmacodynamics is to develop biomedical scientists with a broad knowledge in the areas of Physiology, Pharmacology, Endocrinology and Toxicology. Although the research interests of the faculty are broad, there is an emphasis on the holistic approach to drug actions in living systems. The Department has strong programs in the areas of cardiovascular, reproductive and neuroendocrine physiology and pharmacology, temperature regulation, neurobiology of aging, autonomic pharmacology, and neuropharmacology.

Graduate Coordinator: Dr. Michael Katovich
Department of Pharmacodynamics
PO Box 100487
College of Pharmacy, University of Florida
Gainesville, Florida 32610-0487
(352) 273-7690, E-mail: katovich@cop.ufl.edu

Please direct any future questions or request for application materials concerning the area of study you are interested in to the graduate coordinator of the respective department listed above.

If we can be of further assistance to you please call us at (352) 273-6301. Again, thank you for your interest in our college at the University of Florida. We look forward to hearing from you and eventually, receiving your application forms.

Respectfully,



William J. Millard, Ph.D.
Executive Associate Dean
University of Florida
College of Pharmacy

Respectfully,



Deborah Bambarola
Program Assistant
Office for Research and Graduate Studies
University of Florida
College of Pharmacy

Complete Listing of Extramural Support in the COP for FY 07/08

MEDICINAL CHEMISTRY

Faculty	Amount	Number	Agency	Project Title
Raymond Bergeron	\$562,313	1	National Institute of Health	Iron Chelators Predicated on Desferrithiocin
	\$677,710	1	National Institute of Health	Desferrithiocin Analogue Actinide Decorporation Agents
Raymond Booth	\$246,132	1	National Institute of Health	Novel 5HT2C Agonist Drugs with 5HT2A Antagonist Activity for Cocaine Addiction
	\$342,526	1	National Institute of Health	Serotonin 5HT2C Agonist Drugs with 5HT2A/SB Antagonist Activity
Carrie Haskell-Luevano	\$10,913	1	National Institute of Health	Physiology and Genetics of Food Procurement in Rodents
	\$15,517	1	National Institute of Health	Discovery of Alpha-MSH Analogs for Skin Cancer Prevention
	\$247,177	1	National Institute of Health	Structural Determinants of Neuroendocrine Receptors
	\$17,817	2	U.S.-Israel Binational Science Foundation	Development of Novel Oral Available Backbone Cyclic Anti-obesity Drug Lead
	\$9,500	1	Miscellaneous Donors	Miscellaneous Donors
Margaret James	\$100,000	2	American Diabetes Association	Voluntary Exercise Identifies New Gene Candidates for the Prevention of Type 2 Diabetes
	\$8,390	1	National Institute of Health	Dichloroacetate Kinetics, Metabolism and Toxicology
	\$8,963	1	National Institute of Health	Pharmacotoxicology of Trichloroethylene Metabolites
Hendrik Luesch	\$88,000	1	American Heart Association	Protection from Stroke-induced Brain Damage Through Modulation of Gene Expression
	\$138,750	1	Florida Department of Health	The Mode of Action of the Antitumor Agent Apratoxin A

PHARMACEUTICS & CENTERS FOR DRUG DISCOVERY and NEUROBIOLOGY OF AGING

Faculty	Amount	Number	Agency	Project Title
Veronika Butterweck	\$43,985	1	Steigerwald Arzneimittelwerk GmbH, Darmstadt, Germany	Effects of St. John Wort Extract on Inflammatory Markers and Antioxidant Enzyme Levels after Chronic Restraint Stress in Rats
	\$30,462	1	Finzelberg GMBH & Company	Screening of Different Cinnamon Species for Antidiabetic Effects in Rats
	\$37,034	2	Finzelberg GMBH & Company	Screening of Herbal Extracts for Antidiabetic Activity
	\$30,138	1	Pascoe GMBH	Mechanism of Anxiolytic Action of a Passion Flower Extract and Anxiolytic Effects after Chronic Treatment
Hartmut Derendorf	\$163,125	1	Trius	In Vitro PK/PD Investigations of TR-700
	\$37,500	1	Trius	Microdialysis Study of TR-700
	\$81,338	1	Trius	Microdialysis Study of TR-701-102
	\$100,000	2	Merck & Company Incorporated	Merck Graduate Student Training Fellowship
	\$100,000	1	Pfizer Incorporated	Pfizer Graduate Fellowship Award
	\$15,290	1	National Institute of Health	Chronic Opioids and Aging
	\$234,845	4	Johnson & Johnson	An Exploratory Study to Evaluate the Penetration of Ceftobiprole into Soft Tissue Determined by In Vivo Microdialysis
Guenther Hochhaus	\$2,925	1	RFE Pharma	Drug Analysis for RFE Pharma Inc. Compounds
Jeff Hughes	\$384,667	2	University of North Texas	Project #2 Discovery of Novel Drugs for Alzheimer's Disease
Sihong Song	\$200,650	1	National Institute of Health	Recombinant AAV for Correction of Genetic Abnormalities

PHARMACODYNAMICS				
Faculty	Amount	Number	Agency	Project Title
Dorette Ellis	\$50,000	1	Alcon Research	Drug-induced Cell Volume Regulation in TM and SC
C. Jason Frazier	\$278,132	2	National Institute of Health	Endocannabinoids and Tonic BAGA in the Dentate Gyrus
Michael Katovich	\$40,932	2	National Institute of Health	AT1 Receptor Control in Chronic Hypertension Attenuation
	\$82,500	1	American Heart Association	Cardioprotective Effects of AT2 Receptor Overexpression
Maureen Keller-Wood	\$254,197	1	National Institute of Health	The Baroreflex in Pregnancy: Effects of Adrenal and Placental Steroids

PHARMACEUTICAL OUTCOMES AND POLICY & DUBOW FAMILY CENTER FOR RESEARCH IN PHARM. CARE				
Faculty	Amount	Number	Agency	Project Title
Abraham Hartzema	\$27,609	1	Florida Department of Health	Medicare Rural Hospital Flexibility Program
Teresa Kauf	\$30,000	1	Novartis U.S.	Burden of Illness in Sickle Cell Disease
	\$29,533	1	Merck & Company Incorporated	Medicaid and HPV Infection in Florida
Carole Kimberlin	\$191,008	1	National Association Board of Pharmacy	Consumer Medication Information Evaluation Project - 2007
Rich Segal	\$43,547	1	U.S. Department of Veterans Affairs	Professional Services for North Florida/South Georgia VARMC Rehabilitation Outcomes Research Center

ADMINISTRATION				
Faculty	Amount	Number	Agency	Project Title
Julie Henderson	\$40,142	1	U.S. Army	A Model Immersive Cultural Learning Environment

PHARMACY PRACTICE & CENTER FOR PHARMACOGENOMICS

Faculty	Amount	Number	Agency	Project Title
Amber Beitelshes	\$124,373	2	American Heart Association	Pathway Pharmacogenetics and Angiotensin Receptor Blocker Responses
	\$50,837	2	National Institute of Health	SCCOR in Cardiac Dysfunction and Disease: Project 5: Pharmacogenetics of Post-ACS Therapy
Benjamin Epstein	\$27,281	2	Glaxo Smithkline	Non-invasive Determination of Central Aortic Blood Pressure in Hypertensive Patients Treated with Controlled-release Carvedilol or Atenolol
John Gums	\$300	1	Miscellaneous Donors	Electrolytes in Cardiovascular Disease
	\$12,500	1	American Home Products Corp.	Post-doctoral Fellowship Research Award
Leslie Hendeles	\$37,395	4	Altus Pharmaceuticals	A Phase III, Randomized, Double-blind, Placebo-controlled Clinical Study Evaluating the Efficacy and Safety of ALTU-135 Treatment in Patients with Cystic Fibrosis-related Exocrine Pancreatic Insufficiency
	\$19,000	1	Altus Pharmaceuticals	An Open-label Clinical Study Evaluating the Long-term Safety of ALTU-135 for the Treatment of Patients with Cystic Fibrosis-related Exocrine Pancreatic Insufficiency
	\$53,930	2	IVAX Corporation	A Pilot Study to Evaluate the Dose-response of Inhaled Formoterol to Inhibit Airway Responsiveness to Methacholine in Patients with Mild Asthma
	\$53,225	6	SkyePharma	A Randomized, Double-blind, Placebo-controlled, Parallel Group, Stratified, Multi-center, 12-week Study Comparing the Safety and Efficacy of Fluticasone and Formoterol Combination (FlutiForm™ 100/10µg twice daily) in a Single Inhaler (SkyePharma HFA pMDI) with the Administration of Placebo or Fluticasone (100µg twice daily) and Formoterol (10µg twice daily) alone in Adolescent and Adult Patients with Mild to Moderate Asthma
	\$22,424	3	Genentech Incorporated	A Phase IIIb Multi-center, Randomized, Double-blind, Placebo-controlled Study of Xolair in Subjects with Moderate to Severe Persistent Asthma who are Inadequately Controlled with High-dose Inhaled Corticosteroids and Long Acting Beta-agonists

PHARMACY PRACTICE & CENTER FOR PHARMACOGENOMICS (cont.)

Faculty	Amount	Number	Agency	Project Title
Julie Johnson	\$35,788	7	Nemours Children's Clinic	Biostatistics and Bioinformatics Information
	\$2,070,825	1	National Institute of Health	Pharmacogenomic Evaluation of Antihypertensive Responses
	\$5,400	1	National Institute of Health	Metabolic Effects of Antihypertensive Drugs
	\$21,770	1	American Heart Association	Role of the Arachidonate 5-Lipoxygenase Pathway in Coronary Heart Disease
	\$43,540	1	American Heart Association	Genetic Variation of Beta-adrenergic Receptor Kinase 1: Definition, Functional Consequences, Clinical Implications
	\$47,428	1	American Heart Association	Genetic Polymorphisms and Diabetes: Asso. In Antihypertensive Drug Pathways
	\$21,770	1	American Heart Association	Atenolol Exposure as Risk for Adverse Metabolic Responses to Beta Blockers
	\$59,000	1	Shands Teaching Hospital	Development of a University Cost Center for Genotyping Activities in the Center of Pharmacogenomics in the College of Pharmacy
Taimour Langae	\$7,457	1	National Institute of Health	Pharmacotoxicology of Trichloroethylene Metabolites
Daniel Robinson	\$132,652	1	University of Florida Area Health Education Centers	North Florida Area Health Education Centers Program
	\$30,000	2	Florida Department of Health	University of Florida/Area Health Education Centers Tobacco Training and Cessation Program
Issam Zineh	\$30,000	1	American Colleges of Clinical Pharmacy	LXRA Gene Polymorphisms and Response to Fenofibrate
	\$5,400	1	National Institute of Health	Metabolic Effects of Antihypertensive Drugs

21st ANNUAL RESEARCH SHOWCASE AND AWARDS RECOGNITION DAY

THURSDAY, FEBRUARY 21st, 2008



UNIVERSITY OF FLORIDA
COLLEGE OF PHARMACY

A SPECIAL THANKS TO THIS YEAR'S SPONSORS

PLATINUM SPONSOR

Drug & Biotechnology Development, LLC
Clearwater, FL
Dr. Robert G. and Maria Bell; Class of 1988

GOLD SPONSORS

American College of Clinical Pharmacology
New Hartford, NY
Dr. Vikram Arya; Class of 2003

DENALI BioTechnologies, LLC
Soldotna, AK
Dr. Maureen McKenzie

Dr. Robert A. and Phyllis Levitt
Gainesville, FL; Class of 1961

Dr. Ping Liu
Groton, CT; Class of 2002
with matching gift from Pfizer

Dr. Shashank Rohatagi
Edison, NJ; Class of 1995

Dr. Allen Spiegel
Springfield, NJ; Class of 1957

Dr. Fuxing Tang
Deer Park, NJ; Class of 2000
with matching gift from Forest Laboratories

SILVER SPONSORS

Dr. Robin Ciupidro
Clearwater, FL; Class of 2000

Dr. Gwen (Victoria) De Leon
Orange Park, FL; Class of 1994
with matching gift from Publix

Dr. Tobias Gerhard
New Brunswick, NJ; Class of 2007

Dr. Boman Irani
Short Hills, NJ; Class of 2005

Dr. David Wallace
Tulsa, OK; Class of 1990

SPONSORS

Dr. Brian Sauer
Salt Lake City, UT; 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 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/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: 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/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 Beitelshes
- # 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 Beitelshes
- # 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 Beitelshes

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 GABAergic 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/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 Summers, 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

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 Beitelshoes, Ph.D.
Assistant Professor
Department of Pharmacy Practice
College of Pharmacy
University of Florida

Robert Bell, Ph.D.
President and CEO
Drug & Biotechnology Development, LLC
Clearwater, FL

Maureen McKenzie, Ph.D.
Chief Executive Officer
DENALI BioTechnologies, LLC
Soldotna, AK

Scott Wasdo, Ph.D.
Research Assistant Professor
Department of Anesthesiology
College of Medicine
University of Florida

Alistair Webb, Ph.D.
Professor and Associate Chair
Department of Physiological Sciences
College of Veterinary Medicine
University of Florida

Debbie Wilson, Ph.D.
Post-doctoral Fellow
Rehabilitation Outcomes Research Center
N Florida/S Georgia Veterans Health System
Gainesville, FL

ORAL COMPETITION

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

Shashank Rohatagi, Ph.D.
Executive Director
Clinical Pharmacology – Modeling
and Simulation
Daiichi – Sankyo Pharma Development
Edison, NJ

Russell Weiner, Ph.D.
Director
Clinical Biomarker Development
Bristol-Myers Squibb
Pennington, NJ

Debbie Wilson, Ph.D.
Post-doctoral Fellow
Rehabilitation Outcomes Research Center
N Florida/S Georgia Veterans Health System
Gainesville, FL