

Office of Research and Graduate Studies

2008  **2009**

Annual Report

**University of Florida
College of Pharmacy**

Office of Research and Graduate Studies Staff

William J. Millard, Ph.D.

Executive Associate Dean
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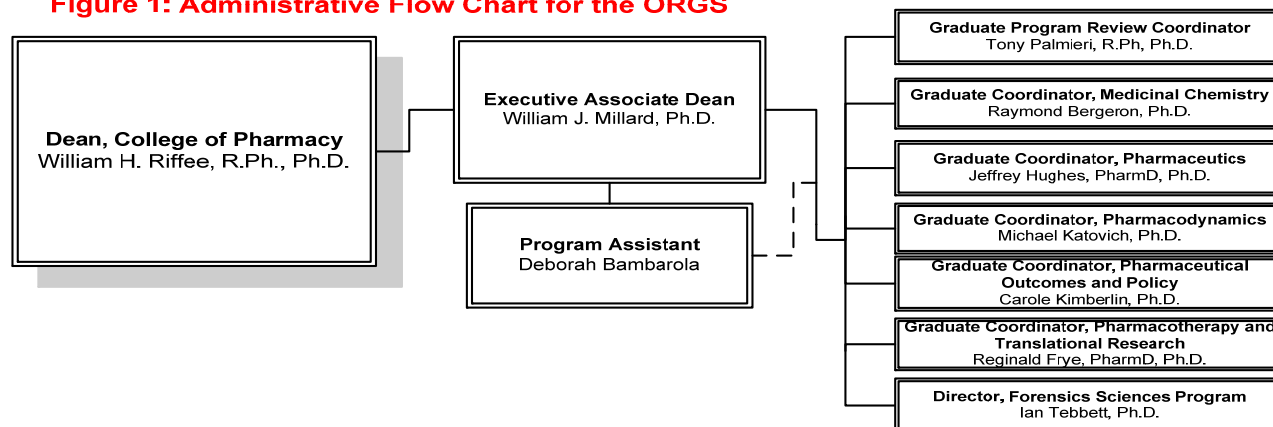
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Introduction

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 **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.

Until this academic year the Executive Associate Dean also acted as the College's principal liaison for the U.S.-Thai Consortium. In FY 2008-09 Dr. Earlene Lipowski, Professor in Pharmaceutical Outcomes and Policy has assumed the US-Thai consortium liaison and sends an annual summary of activities to the ORGS that is included in this report. 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 **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 (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 Department of Pharmaceutics and the Department of Pharmacotherapy and Translational Research (formerly known as 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. This year, at the May 2009 Advanced Degree commencement ceremonies, the Department of Pharmacotherapy and Translational Research graduated their first Ph.D. student, Dr. Maximilian Lobbmeyer, and their first M.S. student, Mr. Hrishikesh Navare, in the Clinical Pharmaceutical Sciences Program. Please see: **Graduate Student Graduation Activities**, below.

Tied to each of the Ph.D. programs in the College is an associated Master of Science (M.S.) in the 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 after entering the program.

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 that was taught was Forensic Toxicology in the Fall of 2000 with only 30 enrollees. Currently, there are over 700 enrollments each semester representing 500 students from 30 different countries. A sister program in Pharmaceutical Chemistry was recently introduced primarily designed for Chemistry majors who wish to obtain graduate level courses in pharmaceutical sciences with a view to entering pharmaceutical industry.

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 142 enrollments.

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 that took place in the Spring of 2008. He then became a permanent member by assuming the role of Graduate Coordinator for Pharmaceutics when

Dr. Jeffrey Hughes left the University. 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
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	Pharmacotherapy and Translational Research
	Dr. Ian Tebbett	Forensic Science Program
	Mr. Matthias Fueth	President of COP Graduate Student Organization
Ex-officio Member:	Dr. William Riffie	Dean

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

- Selection of the FY 09/10 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 22nd Annual Research Showcase and Awards Recognition Day

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 47 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 fifteen Ph.D. students and three M.S. students (see **Graduate Student Graduation Activities**). The COP accepted 19 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 44/51 percent male/female ratio. The college has a 33/62 percent American/Foreign student ratio as well.

The percent of U.S. minority students was 7.4% (7 of 95) for FY 08/09 (**Table 3**), which is identical to that of FY 07/08 but lower than that of the previous five academic years (9% (8 of 94) in FY 06/07 and FY 05/06; 13.2% (12 of 91) in FY 04/05; and 13.9% (11 of 79) in FY 03/04). 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 44. Pharmaceutical Outcomes and Policy had 23 students, Pharmacodynamics had 15 students and Medicinal Chemistry had 13 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 08/09 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 08/09. This represents only an attrition rate of 3.2% (3 of 95). One student from Pharmaceutics left the program for academic reasons and two students, one in Pharmacodynamics and one in Pharmaceutical Outcomes and Policy, who left for personal reasons.

Table 1: Graduate Faculty		
Department/Center	Faculty Name	
Medicinal Chemistry	Raymond Bergeron	Kenneth Sloan
	Raymond Booth	Ian Tebbett
	Margaret James	Donna Wielbo
	Hendrik Luesch	
Pharmaceutics/Center for Drug Discovery & Center for Drug Interaction Research and Education	Nicholas Bodor	Jeffrey Hughes
	Veronika Butterweck	Cary Mobley
	Hartmut Derendorf	Tony Palmieri
	Guenther Hochhaus	Sihong Song
Pharmacodynamics	Dorette Ellis	Bin Liu
	Jason Frazier	Michael Meldrum
	Carrie Haskell-Luevano	William Millard
	Michael Katovich	Joanna Peris
	Maureen Keller-Wood	William Riffiee
Pharmaceutical Outcomes and Policy/Center for Research in Pharmaceutical Care	Diane Beck	Earlene Lipowski
	David Brushwood	L. Douglas Ried
	Abraham Hartzema	Richard Segal
	Teresa Kauf	Almut Winterstein
	Carole Kimberlin	
Pharmacotherapy and Translational Research/Center for Pharmacogenomics	Amber Beitelshees	Larry Lopez
	Rhonda Cooper-DeHoff	Michael McKenzie
	Paul Doering	Charles Peloquin
	Reginald Frye	J. Daniel Robinson
	Leslie Hendeles	Yan Whisler
	Julie Johnson	Issam Zineh
	Taimour Langae	

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
	Devarajan, Hemamalini	Aug. 06	May. 11	Ph.D.	Sloan
	Jiang, Yi	Jan. 05	Aug. 09	M.S.	Bergeron
	Kondabolu, Krishnakanth *	Aug. 08	Dec. 12	Ph.D.	Booth
	Kwan, Jason	Aug. 05	May. 10	Ph.D.	Luesch
	Li, Wenjun	Aug. 06	May. 11	Ph.D.	James
	Merritt, Kristen	Aug. 02	Aug. 09	Ph.D.	James
	Montaser, Rana *	Aug. 08	Dec. 12	Ph.D.	Luesch
	Salvador, Lilibeth *	Aug. 08	Dec. 12	Ph.D.	Luesch
	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

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
	Conrado, Daniela *	Jan. 09	Dec. 13	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	Aug. 09	Ph.D.	Hochhaus
	Grimstein, Christian **	Jan. 05	Dec. 08	Ph.D.	Song
	Hassan, Am Mahbub	Aug. 05	May. 10	Ph.D.	Hughes/Hochhaus
	Haug, Karin *	Jan. 09	Dec. 13	Ph.D.	Butterweck
	Le, Huong	Aug. 07	May. 11	Ph.D.	Hughes
	Li, Hong	Aug. 04	May. 10	Ph.D.	Song
	Li, Li *	Jan. 09	Dec. 13	Ph.D.	Butterweck
	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
	Naik, Runa	Aug. 07	May. 11	Ph.D.	Derendorf
	Patel, Gina	Aug. 05	May. 10	Ph.D.	Hochhaus
	Phipps, Stephen **	Aug. 04	May. 09	Ph.D.	Butterweck
	Pinto, Elanor **	Aug. 03	Dec. 08	Ph.D.	Hochhaus
	Potocka, Elizabeth	Aug. 04	Aug. 09	Ph.D.	Derendorf
	Sahre, Martina	Jan. 07	Dec. 11	Ph.D.	Derendorf
	Schmidt, Stephan **	Aug. 05	Dec. 08	Ph.D.	Derendorf
	Shi, Rong	Aug. 06	May. 11	Ph.D.	Derendorf
	Sun, Wan *	Aug. 08	May. 12	Ph.D.	Hughes
	Vanachayangkul, Pattaraporn **	Aug. 04	Dec. 08	Ph.D.	Butterweck
	Vieira, Manuela	Aug. 07	May. 11	Ph.D.	Butterweck
Wang, Nasha **	Aug. 04	Dec. 08	M.S.	Hochhaus	
Wang, Zhaohua	Aug. 06	May. 11	Ph.D.	Hughes	
Waters, Chad *	Jan. 09	Dec. 13	Ph.D.	Palmieri	
Weber, Benjamin *	Jan. 09	Dec. 13	Ph.D.	Hochhaus	
Weide, Michael	Aug. 06	Left Prog.	Ph.D.	Hughes	
Wu, Benjamin *	Aug. 08	May. 12	Ph.D.	Hughes	
Xu, Jian **	Aug. 05	Aug. 08	Ph.D.	Derendorf	
Clinical Pharmaceutical Science Track: Department of Pharmacotherapy and Translational Research and Center for Pharmacogenomics	Davis, Heather	Aug. 07	May. 11	Ph.D.	Frye
	Duarte, Julio	Aug. 06	May. 11	Ph.D.	Zineh
	Gonzalez, Daniel *	Aug. 08	May. 12	Ph.D.	Frye
	Karnes, Jason *	Aug. 08	May. 12	Ph.D.	Frye
	Le, Myphuong	Aug. 05	May. 10	Ph.D.	Johnson
	Lobmeyer, Maximilian **	Aug. 04	May. 09	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. 09	M.S.	Johnson
	Potvin, Melonie	Aug. 06	May. 11	Ph.D.	Frye
Price, Elvin	Aug. 04	Dec. 09	Ph.D.	Zineh	
Schentrup, Anne	Aug. 04	Aug. 09	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	Al-Khars, Ibrahim	Aug. 06	May. 11	Ph.D.	Segal
	Ali, Ayad	Aug. 05	May. 10	Ph.D.	Hartzema
Pharmaceutical Care	Allen, Mark	Aug. 05	Dec. 09	Ph.D.	Kimberlin
	Balding, Diane	Aug. 00	Left Prog.	Ph.D.	Ried
	Chen, Chih-Ying	Aug. 04	Dec. 09	Ph.D.	Winterstein
	Douglas, Charles	Aug. 05	Dec. 09	Ph.D.	Ried
	Ghandi, Pranav	Aug. 06	May. 11	Ph.D.	Ried
	Goodman, Jessica *	Aug. 08	May. 12	Ph.D.	Kauf
	Guo, Jennifer *	Aug. 08	May. 12	Ph.D.	Hartzema
	Hampp, Christian	Aug. 04	Aug. 09	Ph.D.	Winterstein
	He, Jinghua	Aug. 05	May. 10	Ph.D.	Hartzema
	Hsu, Chienning	Aug. 04	Aug. 09	Ph.D.	Kauf
	Lee, Christine	Aug. 07	May. 11	Ph.D.	Lipowski
	Linden, Stephan	Aug. 07	May. 11	Ph.D.	Winterstein
	Ma, Qinli	Aug. 07	May. 11	Ph.D.	Kauf
	Mueller, Michael **	Aug. 01	Aug. 08	Ph.D.	Kimberlin
	Murkherjee, Kumar **	Aug. 04	Aug. 08	Ph.D.	Segal
	Odia, Efe *	Aug. 08	May. 12	Ph.D.	Winterstein
	Onyenwenyi, Ahunna **	Aug. 03	Aug. 08	Ph.D.	Winterstein
	Ritho, Jane	Aug. 05	Dec. 10	Ph.D.	Hartzema
	Telfair, Tamara	Aug. 02	May. 10	Ph.D.	Hartzema
	Wen, Xueron (Sharon) *	Aug. 08	May. 12	Ph.D.	Hartzema
	Wu, Bingcao *	Aug. 08	May. 12	Ph.D.	Kauf
Pharmacodynamics	Bhatia, Chinki	Aug. 04	Aug. 09	Ph.D.	Frazier
	Bruce, Erin *	Aug. 08	May. 12	Ph.D.	Katovich
	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
	Haslach, Erica	Aug. 06	May. 11	Ph.D.	Haskell-Luevano
	Kasper, James	Aug. 06	May. 10	Ph.D.	Peris
	Lingis, Melissa	Aug. 04	Dec. 09	Ph.D.	Keller-Wood
	Liu, Yue	Aug. 07	May. 11	Ph.D.	Liu
	Lokuta, Kyle *	Aug. 08	Left Prog.	Ph.D.	Katovich
	Mao, Haoyu **	Aug. 04	Aug. 08	Ph.D.	Liu
	Qi, Yanfei	Aug. 05	Dec. 09	Ph.D.	Katovich
	Schaub, Jay	Aug. 07	May. 11	Ph.D.	Haskell-Luevano
	Sharma, Heera	Aug. 06	May. 10	Ph.D.	Liu
	Shenoy, Vinayak	Aug. 05	Dec. 09	Ph.D.	Katovich

* new students entering a graduate program during FY 08/09

** students who graduated with an M.S. or Ph.D. during FY 08/09

Gender	Citizenship						American Minority					
	United States		Foreign		Black		Hispanic		Asian			
	#	%	#	%	#	%	#	%	#	%		
TOTAL	95		33	34.7%	62	65.3%	2	2.1%	2	2.1%	3	3.2%
Male	44	46.3%	15	34.1%	28	63.6%	1	2.3%	2	4.5%	0	0.0%
Female	51	53.7%	16	31.4%	36	70.6%	1	2.0%	0	0.0%	3	5.9%

Department/Center	Graduate Students	Post-doctoral Fellows	Visiting Scholars	Exchange Students
Medicinal Chemistry	13	8	0	1
Pharmaceutics	44	12	2	37
Pharmacodynamics	15	5	0	0
Pharmaceutical Outcomes and Policy	23	0	0	0
Pharmacotherapy and Translational Research	0*	10	0	0
COLLEGE TOTAL	95	35	2	38

*Applicants applied through Pharmaceutics and included in their number

Class	GPA	GRE			TOEFL	TSE
		Verbal	Quant.	Total		
COLLEGE TOTAL (95)*	3.52	509	704	1202	134	50
FY 08/09 Class (19)	3.57	461	668	1075	95	N/A

* numbers in parenthesis denote student population

Department/Center	Name	Mentor	Home Country
Medicinal Chemistry	Chen, Qi Yin	Luesch	China
	Bharti, Neelam	Bergeron	India
	Fang, Lijuan	Booth	Canada
	Liu, Yanxia	Luesch	China
	Matthew, Susan	Luesch	India
	McManis, James	Bergeron	USA
	Singh, Shailendra	Bergeron	India
	Vincek, Adam	Booth	USA
	Pharmaceutics/ Center for Drug Discovery & Center for Drug Interaction Research and Education	Bewernitz, Michael	Derendorf
Liu, Yi		Butterweck	China
Lu, Yuanqing		Song	China
Ma, Hongxia		Song	China
Niu, Guoqin		Hughes	China
Pan, Hao		Derendorf	China
Rao, Guraj		Hughes	India
Sabarinath, S		Derendorf	India
Sampath, Chetham		Butterweck	India
Singh, Rajendra		Derendorf	India
Song, Young Goo		Derendorf	Korea
Wang, Jie		Derendorf	China
Wittau, Mitthias	Derendorf	Germany	
Zhang, Bin	Song	China	

Table 6: Post-doctoral Fellows and Visiting Scholars (cont.)			
Department/Center	Name	Mentor	Home Country
Pharmacodynamics	Singh, Anamika	Haskell-Luevano	India
	Li, Zhimin	Peris	China
	Xiang, Zhimin	Haskell-Luevano	China
	Yao, Hua	Haskell-Luevano	China
	Zarikova, Alevtina	Peris	Russia
Pharmacotherapy and Translational Research/ Center for Pharmacogenomics	Adkinson, Casey	Taylor	USA
	Anderson, Shawn	Gums	USA
	Campbell, Marcus	Taylor	USA
	Elewa, Hazem	Johnson	Egypt
	Leverone, Donna	Epstein	USA
	Niu, Yuxin	Johnson	China
	Pettus, Joanna	Robinson	USA
	Shin, Jaekyu	Johnson	South Korea
	Vazquez, Alex	Hrabchak	USA
	Zhang, Bin	DeHoff	Japan

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 Department of Pharmacotherapy and Translational Research and Department of 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 13 PharmD/Ph.D. students completing the joint degree program. Eight students have completed their PharmD curriculum and now have entered the Ph.D. program and five students are currently finishing their PharmD degree and will enter the Ph.D. portion of the joint program in the next year or two. A complete listing of PharmD/Ph.D. students is listed in **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 Schentrup	Pharmaceutics/PTR*/CST**	2004	2009
Dr. Elvin Price	Pharmaceutics/PTR*/CST**	2004	2009
Dr. Julio Duarte	Pharmaceutics/PTR*/CST**	2006	2010
Dr. Melanie Potvin	Pharmaceutics/PTR*/CST**	2006	2010
Dr. Heather Davis	Pharmaceutics/PTR*/CST**	2007	2011
Dr. Mariellen Moore	Pharmaceutics/PTR*/CST**	2007	2011
Dr. Jason Karnes	Pharmaceutics/PTR*/CST**	2008	2012
Dr. Daniel Gonzalez	Pharmaceutics/PTR*/CST**	2008	2012

Table 7: PharmD/Ph.D. Students Engaged in COP Graduate Programs (cont.)

Student Name	Department/Program	Expected Graduation Year	
		PharmD	Ph.D.
Completing the PharmD Degree:			
Mr. Eric Egelund	Pharmaceutics/PTR*/CST**	2009 (4PD)	2013
Mr. Greg Welder	Pharmaceutics/PTR*/CST**	2009 (4PD)	2013
Mr. Andrew Chanliongco	Pharmaceutical Outcomes and Policy	2009 (4PD)	2013
Ms. Shannon Zandy	Pharmacodynamics	2010 (3PD)	2014
Ms. Jessica Enogieru	Pharmaceutics/PTR*/CST**	2010 (3PD)	2014

* PTR - Pharmacotherapy and Translational Research

** CST - Clinical Science 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 08/09 for each of the departments is illustrated in **Table 8**. The College received 174 completed applications. Of the 174 completed applications received by the departments, only 25 (or 14.4%) of the applicants were accepted, of which 15 students (or 60% of the potential students) will enter our graduate programs for FY 09/10.

Table 8: Departmental Graduate Student Recruitment Activity

Department	# Completed Applications	# Applications Accepted	% Accepted	# Applicants Entered	% Entered
Medicinal Chemistry	30	3	10.0%	2	66.7%
Pharmaceutics	86	10	11.6%	4	40.0%
Pharmacodynamics	22	3	13.6%	2	66.7%
Pharmaceutical Outcomes and Policy	36	7	19.4%	5	71.4%
Pharmacotherapy and Translational Research	0*	2	-	2	100.0%
COLLEGE TOTAL	174	25	14.4%	15	60.0%

* Applicants applied through Pharmaceutics and included in their number

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 academic year the college hosted 38 students listed in **Table 9**.

Table 9: Exchange Students

Department	Student Name	Mentor	Home Country
Pharmaceutics/ Center for Drug Discovery & Center for Drug Interaction Research and Education	Algermissen, Julie	Derendorf	Germany
	Andueza-Galeno, Isabel	Derendorf	Venezuela
	Brunner, Isabelle	Derendorf	Switzerland
	Deininger, Christine	Derendorf	Germany
	Diestelhorst, Christian	Derendorf	Germany
	Dufraisse, Arnaud	Derendorf	France
	Eckel, Marthe-Sophie	Derendorf	Germany

Table 9: Exchange Students (cont.)

Department	Student Name	Mentor	Home Country
Pharmaceutics/ Center for Drug	Felder, Diana	Derendorf	Switzerland
Discovery & Center for Drug	Frank, Kerstin	Derendorf	Germany
Interaction Research and Education (cont.)	Fretz, Michael	Butterweck	Switzerland
	Giersch, Katja	Derendorf	Germany
	Gligor, Diana	Butterweck	Austria
	Grunert, Sabrina	Butterweck	Germany
	Haidas, Christina	Derendorf	Germany
	Jungke, Peggy	Butterweck	Germany
	Kast, Johannes	Derendorf	Germany
	Kollar, Benjamin	Derendorf	Germany
	Konner, Franziska	Derendorf	Germany
	Kranz, Nina	Derendorf	Germany
	Liero, Anica	Derendorf	Germany
	Lu, Yuan	Derendorf	China
	Luning, Zhuang	Derendorf	China
	Neuhaus, Stephan	Derendorf	Germany
	Rollbuhler, Steffi	Derendorf	Germany
	Rothweiler, Sonja	Derendorf	Germany
	Semlin, Lydia	Derendorf	Germany
	Siegle, Nora	Derendorf	Germany
	Silva, de Miranda Carolina	Derendorf	Brazil
	Tai, Shu-Hua	Derendorf	Taiwan
	Theisen, Linda	Derendorf	Luxemburg
	Tremmel, Tim	Derendorf	Germany
	Weinohrl, Stefanie	Derendorf	Austria
	Weismueller, Sonja	Derendorf	Germany
	Woermann, Katharina	Derendorf	Germany
	Wolkart, Karin	Butterweck	Austria
	Ye, Yizhou	Derendorf	China
	Zhuang, Luning	Derendorf	China
Medicinal Chemistry	Angermeier, Ludwig	Luesch	Germany

Graduate Student Graduation Activities

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

Ph.D. in Pharmaceutical Science Degrees Conferred

AUGUST 2008 (SUMMER COMMENCEMENT)

Name: **Dr. Oliver Ghobrial**
Dissertation Title: *Pharmacokinetics and Pharmacodynamics of the Lantibiotic Mu1140*
Faculty Mentor: Dr. Hartmut Derendorf, Professor
Department: Pharmaceutics
Previous Degree: B.S. and M.S. in Science Molecular Biology, University of Central Florida

Dr. Ghobrial assumed a position with Eli Lilly and Company, Indianapolis, IN.

Name: **Dr. Yanjun Li**
Dissertation Title: *Pharmacokinetics/Pharmacodynamics of Voriconazole*
Faculty Mentor: Dr. Hartmut Derendorf, Professor
Department: Pharmaceutics
Previous Degree: B.S. in Medicine, Hunan Medical University, China

Dr. Li assumed a position with AstraZeneca, Boston, MA.

Name: **Dr. Haoyu Mao**
Dissertation Title: *Organochlorinated Pesticides (OCP) Stimulated Generation of Reactive Oxygen Species (ROS) in Cultured Microglia*
Faculty Mentor: Dr. Bin Liu, Assistant Professor
Department: Pharmacodynamics
Previous Degree: B.S., Jiangxi University; M.S. in Pharmacy, Peking Union Medical College, China

Dr. Mao assumed a position as a Post-doctoral Fellow in the Department of Molecular Genetics and Microbiology, College of Medicine, University of Florida.

Name: **Dr. Michael Mueller**
Dissertation Title: *Family Caregiver Quality of Life in a Pediatric Oncology Setting*
Faculty Mentor: Dr. Carole Kimberlin, Professor
Department: Pharmaceutical Outcomes and Policy
Previous Degree: B.S. in Psychology, University of Florida

Dr. Mueller assumed a position as an Academic Programs Coordinator in the Department of Pharmaceutical Outcomes and Policy, College of Pharmacy, University of Florida.

Name: **Dr. Kumar Mukherjee**
Dissertation Title: *Economic Tradeoff between Purchase of Medical Care and other Commodities in the USA*
Faculty Mentor: Dr. Richard Segal, Professor
Department: Pharmaceutical Outcomes and Policy
Previous Degree: B.S. in Pharmacy, Jadavpur University; M.S. in Pharmacy, University of Toledo

Dr. Mukherjee assumed a position as an Assistant Professor in the Department of Pharmacy Practice, Chicago State University.

Name: **Dr. Ahunna Onyenwenyi**
Dissertation Title: *Off-label Prescribing of Anticonvulsant Drugs*
Faculty Mentor: Dr. Almut Winterstein, Associate Professor
Department: Pharmaceutical Outcomes and Policy
Previous Degree: B.S. in Pharmacy, University of Lagos, Nigeria

Dr. Onyenwenyi assumed a position as a Pharmacoepidemiology Research Manager at The Degge Group, Arlington, VA.

Name: **Dr. Jian Xu**
Dissertation Title: *Modeling and Simulation of Systemic and Inhaled Corticosteroid Therapy*
Faculty Mentor: Dr. Hartmut Derendorf, Professor
Department: Pharmaceutics
Previous Degree: B.S. in Pharmacy, China Pharmaceutical University; M.S. in Pharmaceutical Sciences, University of Buffalo SUNY

Dr. Xu assumed a position as a manager at Pfizer Global Research and Development, New London, CT.

DECEMBER 2008 (FALL COMMENCEMENT)

Name: **Dr. Christian Grimstein**
Dissertation Title: *Alpha-1 Antitrypsin Protein and Gene Therapies for the Prevention of Rheumatoid Arthritis*
Faculty Mentor: Dr. Sihong Song, Associate Professor
Department: Pharmaceutics
Previous Degrees: Professor of Pharmacy, Saarland University, Germany

Dr. Grimstein assumed a position as a Post-doctoral Fellow in the Department of Pharmaceutics, College of Pharmacy, University of Florida.

Name: **Dr. Elanor Pinto**
Dissertation Title: *Sustained Release of a Soft Glucocorticoid Loteprednol Etabonate using PLA Microspheres for the Prevention of Islet Cell Transplantation Rejection*
Faculty Mentor: Dr. Guenther Hochhaus, Professor
Department: Pharmaceutics
Previous Degrees: B.S. in Chemical Engineering, University of Florida

Dr. Pinto assumed a position with Ashland Chemical Company, Wilmington, DE.

Name: **Dr. Stephan Schmidt**
Dissertation Title: *Pharmacokinetics and Pharmacodynamics of Oxazolidinones and Beta-lactams*
Faculty Mentor: Dr. Hartmut Derendorf, Professor
Department: Pharmaceutics
Previous Degrees: B.S. in Pharmacy, Friedrich-Alexander University, Erlangen, Germany

Dr. Schmidt assumed a position as a Post-doctoral Fellow at Leiden University, Leiden, Netherlands.

Name: **Dr. Pattaraporn Vanachayangkul**
Dissertation Title: *Prevention of Urolithiasis by Ammi visnaga L*
Faculty Mentor: Dr. Veronika Butterweck, Assistant Professor
Department: Pharmaceutics
Previous Degrees: B.S. in Pharmacy, Chiangmai University, Thailand

Dr. Vanachayangkul assumed a position as a Toxicologist with the FDA Toxicology Labs, Jefferson, AR.

MAY 2009 (SPRING COMMENCEMENT)

Name: **Dr. April Barbour**
Dissertation Title: *Pharmacokinetic/Pharmacodynamic Characterization of Ceftobiprole*
Faculty Mentor: Dr. Hartmut Derendorf, Professor
Department: Pharmaceutics
Previous Degrees: B.S. in Biochemistry, SUNY-Plattsburgh

Dr. Barbour assumed a position with GlaxoSmithKline, Philadelphia, PA.

Name: **Dr. Jiang Liu**
Dissertation Title: *PK/PD Studies of Fentanyl Induced Physical Dependence and Analgesic Tolerance in Rats*
Faculty Mentor: Dr. Hartmut Derendorf, Professor
Department: Pharmaceutics
Previous Degrees: M.S. in Microbiology, Peiking Union Medical College; M.Math in Bioinformatics, University of Waterloo, Ontario, Canada

Dr. Liu assumed a position as a Clinical Pharmacology Reviewer for the FDA.

Name: **Dr. Maximilian Lobmeyer**
Dissertation Title: *Genetic Variation of Beta-adrenergic Receptor Kinase 1 and Beta-arrestin 1: Definition, Functional Consequences, Clinical Implications*
Faculty Mentor: Dr. Julie Johnson, Professor
Department: Pharmacotherapy and Translational Research
Previous Degrees: B.S. in Pharmacy, University of Regensburg, Germany

Dr. Lobmeyer assumed a position as a Post-doctoral Fellow in the Department of Pharmacotherapy and Translational Research, College of Pharmacy, University of Florida.

Name: **Dr. Stephen Phipps**
Dissertation Title: *The Neuropharmacological Assessment of Salvia Divinorum (Epling and Jativa-M)*
Faculty Mentor: Dr. Veronika Butterweck, Assistant Professor
Department: Pharmaceutics
Previous Degrees: A.A. in Biological Sciences, University of Central Florida; B.S. in Botony, University of Florida

Dr. Phipps assumed a position as a Naturopathic Clinical Trainee at Bastyr Integrative Oncology Research Clinic, Bastyr University, Seattle, WA.

Master's in Pharmaceutical Science Degrees Conferred

AUGUST 2008 (SUMMER COMMENCEMENT)

Name: **Ms. Kanchan Taori**
Thesis Title: *Novel Structures and Activities of Secondary Metabolites from Floridian Marine Cyanobacteria*
Faculty Mentor: Dr. Hendrik Luesch, Assistant Professor
Department: Medicinal Chemistry
Previous Degree: M.S. in Organic Chemistry, School of Chemical Science, Indore University, India

Ms. Taori assumed a position as a Research Specialist in the Department of Pharmacology and Molecular Science, School of Medicine, John Hopkins University, Baltimore, MD.

DECEMBER 2008 (FALL COMMENCEMENT)

Name: **Ms. Nasha Wang**
Thesis Title: *In Vitro Interaction of Cortocosteriods with P-Glycoprotein and Cytokines*
Faculty Mentor: Dr. Guenther Hochhaus, Professor
Department: Pharmaceutics
Previous Degree: M.S. in Medicinal Chemistry, Peking Union Medical University, China

Ms. Wang is currently looking for a position.

MAY 2009 (SPRING COMMENCEMENT)

Name: **Mr. Hrishikesh Navare**
Thesis Title: *Atenolol Exposure as a Risk for Adverse Metabolic Effects to Beta Blockers*
Faculty Mentor: Dr. Julie Johnson, Professor
Department: Pharmacotherapy and Translational Research
Previous Degree: B.S. and M.S. in Pharmacy, University of Bombay, India

Mr. Navare is currently looking for a position.

Forensic Sciences Master's Degrees Conferred

This year in the Forensics programs there were 290 students enrolled in one of the four Master's programs and 64 students enrolled in one of the four certificate programs. Within the Master's programs there was a total of 94 students who graduated; 20 (21.3%) from the Drug Chemistry concentration, 41 (43.6%) from the DNA and Serology concentration, and 33 (35.1%) from the Forensic Science concentration. Within the certificate programs there was a total of 87 students who received their certificate; 18 (20.7%) from the Drug Chemistry concentration, 49 (56.3%) from the DNA and Serology concentration, and 20 (23%) from the Death Investigation concentration. Listed in **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 2008		
DNA and Serology	Bonin, Brandon	Lee, Marie-Louise
	Garis, Jennifer	Mlocek, Jonathan
	Giamanco, Chantel	Schlum, Aaron
	Gund, Ansley	Threet, Jimmy
	Ryan, Hale	Verduin, Lindsey
	Higgins, Brian	Wilson, Christian
	Jones, Jieffa	Witt, Leanna
	Lee, Jennifer	
Drug Chemistry	Ararat, Miguel	Marten, Stacy
	Hiatt, Mark	McCarty, Ann
	Druse, Kathryn	Recco, Salvatore
	Lafaver, Robert	Sutphin, Latanya
	Machonis, Phillip	
Forensic Science	Beck, Katherin	Lyn, domini
	Bleakley, Ana	Martinez-Dian, Karin
	Coldren, Cheryl	McDonald, Katherine
	Frenyea, Julia	Morace, Gina
	Kidd, Joseph	Scarboro-Hendrick, Tomeka
Fall 2008		
DNA and Serology	Applewhite, Shawna	Gleasner, Cheryl
	Ascroft, Laura	Grossman, Julia
	Benslay, Heather	Haas, Melissa
	Bryant, Victoria	Knott-Morse, Melanie
	Sumas-Roberson, Titania	Lazik, Arthur
	Fenesan, Kelly	Lee, William
	Giangrande, Jennifer	
Drug Chemistry	Chebukati, Janetrick	Macey, Andrew
	Erwin, Mandi	Phillips-Blackwell, Heather
	Edmiston-Harfield, Jennifer	Triplett, Jeremy
	Huisden, Christiaan	
Forensic Science	Brown, Jessica	Hall, Karon
	Davis, Lexi	Mason, Lynda
	Desiderio, Tracy	Olejar, Kenneth
	DiBernardo, Pamela	Thatcher, Tobey
	Dishaw, Avril	Turnquest, Annick
	Drake, June	Whiteway, Jamie
	Hall, Danielle	
Spring 2009		
DNA and Serology	Beebe, Dorothy	Ludwigsen, Nancy
	Breit, Gilbert	McBride, Danielle
	Bustamante, Gabriela	McKee, Lucy
	Colquhoun, Ellyn	Northey, Ma Janice Ixara
	Forlenza, Allison	Query, Michele
	Frazier, Kimberly	Shandor, Nancy
	Leap, Shannon	
Drug Chemistry	Hanks, Katrina	Matthews, Laura
	Kelley, Sharon	Stice, Szabina
Forensic Science	Barrett, Natashaia	Jaime, Shaulan
	Brock, Courtney	Satchell, Samantha
	Brown, Jessi	Satterfield, Melissa
	Marsh, Kimberly	Strachan, Nena
	Elliott, Stefanie	Trotman, Brian

Pharmacy Regulations and Policy Master's Degrees Conferred

This year in the *Pharmacy Regulation and Policy Program* there were 142 students enrolled. Listed in **Table 11** are those students who have graduated with their Master's.

Table 11: Master's Graduates in the Pharmacy Regulations and Policy Program	
Summer 2008	
Dominy, Stephanie	Gieger, Jason
Fall 2008	
Bennett, J. Michael	Grace, JeRhonda
Carnes, Paul	Schiavo, John
Crudo, Daniel	
Spring 2009	
Bowles, Toya	Mollien, Charles
Ducote, Chad	Murphy, Rachel
Gaines, Tenecia	Smith, Jonna
Harmon, Shalonda	Tipton, Laura
James, Michael	Wiberg, Cody
Miller, Josette	Wheless, Lynne

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-seven graduate student stipends; one student received support from her department; nine students received support from extramural research grants; eleven students funded their own graduate education this year. Twelve 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 \$17,745.

Eight graduate student fellowship proposals totaling \$231,176 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, the Epilepsy Foundation, and the American Association of University Women (AAUW).

Graduate School Scholarships

Beginning Fall Semester 1999, the University of Florida offered the *Graduate School Scholarship* program (formerly known as 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, and full health insurance coverage. The College of Pharmacy received six additional *Graduate School Scholarships*. The recipients of the *Graduate School Scholarships* are:

Dr. Daniel Gonzalez	Pharmacotherapy and Translational Research	FY 08/09
Dr. Jason Karnes	Pharmacotherapy and Translational Research	FY 08/09
Mr. Krishnakanth Kondabolu	Medicinal Chemistry	FY 08/09
Mr. Kyle Lokuta	Pharmacodynamics	FY 08/09
Ms. Efe Odia	Pharmaceutical Outcomes and Policy	FY 08/09
Ms. Wan Sun	Pharmaceutics	FY 08/09
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

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
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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
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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 68.5% acceptance of **Grinter Awards** by prospective students. Sixty-three 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 3.57 with a GRE of 1239 and a TOEFL of 106.

Table 12: Statistical Summary of the Grinter Program – 1988 to Present			
Statistic	Overall	%	08/09 Class
Total number offered	111		3
Total number accepted	76	68.5%	3
Total number graduated	48	63.2%	
Total number still enrolled: past & present	16	21.1%	
Number of active awardees	12	15.8%	3
Grade Point Average (GPA)	3.57		**
Graduate Record Exam -GRE (Verbal + Quant.)	1239		1237
Test of English as a Foreign Language (TOEFL)	106		101

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

Ms. Erin Bruce	Pharmacodynamics	FY 08/09
Ms. Lilibeth Salvador	Medicinal Chemistry	FY 08/09
Mr. Bingcao Wu	Pharmaceutical Outcomes and Policy	FY 08/09
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

22nd 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

Shannon Zandy, a third year professional student, was elected as a Director to the Florida Pharmacy Association (FPA) House of Delegates, the first student director to ever be elected to the FPA House. Ms. Zandy is also the UF College of Pharmacy APhA-ASP President and Phi Lambda Sigma Vice President in Gainesville as well as registered in the joint PharmD/Ph.D. program.

International Student Academic Awards

At the International Student Academic Awards Ceremony held November 18, 2008, in the Reitz Union Auditorium, four of the College of Pharmacy’s international graduate students received a certificate award for outstanding academic accomplishment. The recipients of the *International Student Awards* are:

Mr. Yi Jiang	Medicinal Chemistry
Mr. Maximilian Lobmeyer	Pharmacotherapy and Translational Research
Ms. Chih-Ying Chen	Pharmaceutical Outcomes and Policy
Ms. Chienning Hsu	Pharmaceutical Outcomes and Policy

Graduate Minority Activities

The ORGS has continued to work with the Graduate School’s Office of Graduate Minority Programs (OGMP) in recruiting minority students into the College’s graduate programs. The ORGS filters 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. 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 14th this past year out of 60 schools with research programs as seen in **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
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
2008	\$6,401,646	14	34	\$188,284	15

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 126 extramural grant or contract applications from the five Departments and our Administrative Office for a total of \$83,055,005 in **new** grant dollars, see **Table 14**. This is a 13.1% increase in total dollars requested when compared to FY 07/08, see **Table 15**. The majority of new proposals (76.2%) 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 \$8,807,502 with 100 individual awards coming into the College of Pharmacy. This represents an increase in total research funding dollars of 18% and a 9% increase in number of awards from FY 07/08.

During FY 08/09 departmental comparisons show that Pharmacotherapy and Translational Research brought in the highest total of research dollars within the COP at 31.4% (\$2,764,620). Medicinal Chemistry was second at 26.5% (\$2,333,801); followed by Pharmacodynamics at 19.3% (\$1,695,696); Pharmaceuticals at 14.7% (\$1,297,192); and Pharmaceutical Outcomes and Policy at 8.1% (\$716,193).

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 a 74.2% increase from the previous academic year.

The combination of an 18% increase in **RESEARCH** funds and a 74% increase in **ADMINISTRATIVE** funds provided the College of Pharmacy with a 19.3% increase overall in FY 08/09 from FY 07/08 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	96	30	126
Total Amount	\$75,293,358	\$7,761,647	\$83,055,005
Administration			
# Proposals	0	2	2
Total Amount	\$0	\$120,827	\$120,827
Medicinal Chemistry			
# Proposals	15	4	19
Total Amount	\$23,252,249	\$1,929,627	\$25,181,876
Pharmaceutics			
# Proposals	19	9	28
Total Amount	\$5,755,225	\$1,915,396	\$7,670,621
Pharmacodynamics			
# Proposals	21	4	25
Total Amount	\$20,067,901	\$2,058,953	\$22,126,854
Pharm. Outcomes & Policy			
# Proposals	9	1	10
Total Amount	\$2,500,713	\$548,414	\$3,049,127
Pharm. & Translational Research			
# Proposals	32	10	42
Total Amount	\$23,717,270	\$1,188,430	\$24,905,700

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 07/08			
# proposals	94	29	123
Total Amount	\$57,356,151	\$16,108,994	\$73,465,145
FY 08/09			
# proposals	96	30	126
Total Amount	\$75,293,358	\$7,761,647	\$83,055,005

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 04/05 to FY 08/09

Department	04/05	05/06	06/07	07/08	08/09	04/05 - 08/09	% of total
COLLEGE TOTAL	\$6,681,496	\$8,970,166	\$8,139,750	\$7,192,475	\$8,807,502	\$7,958,278	100.00%
IDC	\$1,371,959	\$1,874,293	\$1,541,843	\$1,337,594	\$1,669,551	\$1,559,048	100.00%
# grants	82	104	98	91	100	95	
%IDC	25.8%	26.4%	23.4%	22.8%	23.4%	24.4%	
Medicinal Chemistry	\$2,479,168	\$2,410,972	\$2,897,985	\$1,633,481	\$2,333,801	\$2,351,081	29.54%
IDC	\$618,457	\$554,326	\$670,513	\$404,829	\$486,631	\$546,951	35.08%
# grants	13	23	25	13	14	17.6	
%IDC	33.2%	29.9%	30.1%	32.9%	26.3%	30.5%	
Pharmaceutics	\$1,115,239	\$1,517,052	\$1,426,654	\$1,361,814	\$1,297,192	\$1,343,590	16.88%
IDC	\$83,161	\$329,796	\$207,786	\$321,903	\$272,091	\$242,947	15.58%
# grants	27	28	25	19	24	24.6	
%IDC	8.1%	27.8%	17.0%	31.0%	26.5%	22.1%	
Pharmacodynamics	\$1,434,709	\$1,597,340	\$639,931	\$963,262	\$1,695,696	\$1,266,188	15.91%
IDC	\$361,146	\$466,000	\$175,896	\$262,392	\$492,574	\$351,602	22.55%
# grants	16	17	13	9	18	14.6	
%IDC	33.6%	41.2%	37.9%	37.4%	40.9%	38.2%	
Pharm. Outcomes & Policy	\$303,950	\$182,532	\$422,547	\$321,697	\$716,193	\$389,384	4.89%
IDC	\$30,937	\$18,282	\$63,300	\$72,864	\$142,039	\$65,484	4.20%
# grants	10	8	8	5	2	6.6	
%IDC	11.3%	11.1%	17.6%	29.3%	24.7%	18.8%	
Pharm. & Translational Research	\$1,348,430	\$3,262,270	\$2,752,633	\$2,912,221	\$2,764,620	\$2,608,035	32.77%
IDC	\$278,258	\$505,888	\$424,348	\$275,606	\$276,216	\$352,063	22.58%
# grants	16	28.0	27.0	45.0	42.0	31.6	
%IDC	26.0%	18.4%	18.2%	10.5%	11.1%	16.8%	

IDC = indirect costs

Table 17: Total Extramural Support - FY 04/05 to FY 08/09

Dept.	04/05	05/06	06/07	07/08	08/09	Average 04/05-08/09
COLLEGE TOTAL	\$7,159,483	\$9,383,617	\$8,342,176	\$7,232,617	\$8,962,803	\$8,216,139
IDC	\$1,371,959	\$1,874,293	\$1,541,843	\$1,350,704	\$1,699,966	\$1,567,753
# grants	88	107	99	92	104	98
%IDC	23.7%	25.0%	22.7%	23.0%	23.4%	23.5%
RESEARCH	\$6,681,496	\$8,970,166	\$8,139,750	\$7,192,475	\$8,807,502	\$7,958,278
IDC	\$1,371,959	\$1,874,293	\$1,541,843	\$1,337,594	\$1,669,551	\$1,559,048
# grants	82	104	98	91	100	95.0
%IDC	25.8%	26.1%	23.5%	22.8%	23.4%	24.3%
ADMINISTRATION	\$477,987	\$413,451	\$202,426	\$40,142	\$155,301	\$257,861
IDC	\$0	\$0	\$0	\$13,110	\$30,415	\$8,705
# grants	6	3	1	1	4	3.0
%IDC	0.0%	0.0%	0.0%	48.5%	24.4%	14.6%

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 24.7% increase in dollars as well as a 33.3% increase in the number of awards this year from FY 07/08. State dollars were decreased by 27.1%; Corporations and Companies showed a 17.1% decrease in dollars received; and Foundation and Society monies showed a 58.5% decrease in the dollars received compared to FY 07/08. The College experienced a significant increase of 99% 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 07/08		FY 08/09	
	# of Awards	Total Dollars	# of Awards	Total Dollars
Federal Agencies	26	\$5,517,117	39	\$7,325,900
Florida State Agencies	5	\$329,011	6	\$239,838
Corporations and Companies	39	\$1,206,139	37	\$1,000,179
Foundations & Societies	23	\$862,994	17	\$357,625
Other	1	\$300	5	\$39,260
Total Comparison	94	\$7,915,561	104	\$8,962,802

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 07/08			FY 08/09		
	Count	Total	IDC	Count	Total	IDC
AHCA	1	\$27,609	\$1,315	1	\$710,193	\$142,039
NIH	23	\$4,860,128	\$1,018,205	35	\$6,519,582	\$1,316,058
U.S. Army	1	\$40,142	\$13,110	3	\$96,125	\$30,415
U.S. Dept. of Veteran Affairs	1	\$43,547	\$0			
Total Federal Agencies	26	\$4,971,426	\$1,032,630	39	\$7,325,900	\$1,488,512

IDC = indirect costs

Table 20: State Agencies Comparison						
Sponsor	FY 07/08			FY 08/09		
	Count	Total	IDC	Count	Total	IDC
Dept. of Citrus				2	\$80,000	\$7,273
Dept. of Health	4	\$301,402	\$10,278	4	\$159,838	\$729
Total Florida State Agencies	4	\$329,011	\$10,278	6	\$239,838	\$8,002

IDC = indirect costs

Table 21: Corporations and Companies Comparison

Sponsor	FY 07/08			FY 08/09		
	Count	Total	IDC	Count	Total	IDC
Alcon Research	1	\$50,000	\$10,317	1	\$70,000	\$14,444
Alnara Pharmaceuticals				2	\$4,541	\$908
Altus Pharmaceuticals	5	\$56,395	\$11,279	4	\$23,160	\$4,632
American Home Products	1	\$12,500	\$2,500	1	\$13,513	\$2,788
Finzelberg GMBH & Co. KG	3	\$67,496	\$13,500	1	\$37,000	\$7,400
Genentech, Inc.	3	\$22,424	\$4,485	1	\$4,375	\$875
Glaxo Smith Kline, Inc.	2	\$27,281	\$5,456	4	\$106,000	\$21,200
Golin-Harris Int'l., Inc.				1	\$5,000	\$1,000
IVAX Corporation	2	\$53,930	\$10,786	1	\$26,965	\$5,393
Johnson & Johnson	4	\$234,845	\$49,552	5	\$240,590	\$53,278
Kasima Medical Dev AB				1	\$22,446	\$4,489
Max Zeller Sohne				1	\$35,000	\$7,000
Merck & Company, Inc.	4	\$129,533	\$4,922			
Merck Selbstmedikation GMBH				1	\$35,000	\$7,000
Micromedic Technologies				1	\$15,500	\$0
Novartis - United States	1	\$30,000	\$6,000			
OsmoPharm USA				1	\$10,000	\$909
Pascoe GMBH	1	\$30,138	\$6,028	2	\$4,973	\$995
Pfizer, Inc.				1	\$100,000	\$0
Qualia Clinical Services				1	\$10,000	\$2,000
RFE Pharma	1	\$2,925	\$585			
SkyePharma	6	\$53,225	\$10,645	4	\$33,586	\$6,717
Steigerwald Arzneimittelwerk	1	\$43,985	\$8,768	2	\$39,855	\$7,971
Trius Therapeutics	3	\$281,963	\$56,393	1	\$162,675	\$32,535
Total Corporations & Companies	39	\$1,206,139	\$201,244	37	\$1,000,179	\$181,534

IDC = indirect costs

Table 22: Foundations & Societies Comparison

Sponsor	FY 07/08			FY 08/09		
	Count	Total	IDC	Count	Total	IDC
Alpha One Foundation				1	\$56,936	\$0
Am Association of University Women				2	\$20,000	\$0
Am. College of Clinical Pharmacy	1	\$30,000	\$0			
Am. Diabetes Association	2	\$100,000	\$13,044			
Am. Foundation for Pharmaceutical Edu.				1	\$6,000	\$0
Am. Heart Association - FL	9	\$429,381	\$26,807	2	\$170,500	\$15,500
Natl. Association Boards of Pharmacy	1	\$191,008	\$60,627			
Nemours Children's Clinic	7	\$35,788	\$3,774	5	\$22,168	\$2,015
Shands Teaching Hospital	1	\$59,000	\$0	1	\$59,176	\$0
UF Foundation				4	\$3,008	\$0
U.S.-Israel Binational Science Fdtn.	2	\$17,817	\$2,324	1	\$19,837	\$2,587
Total Foundations & Societies	23	\$862,994	\$106,576	17	\$357,625	\$20,102

IDC = indirect costs

Table 23: Other Comparison

Sponsor	FY 07/08			FY 08/09		
	Count	Total	IDC	Count	Total	IDC
Miscellaneous Donors	1	\$300	\$0	2	\$21,978	\$0
Multiple Sponsors				3	\$17,282	\$1,813
Total Other	1	\$300	\$0	5	\$39,260	\$1,813

IDC = indirect costs

Licensing and Royalty Income

Through licensing and maintenance fees the College of Pharmacy generated a total of \$715,773 in revenues during FY 08/09. These monies were distributed to the College as outlined in the UF IP distribution policy.

Graduate Student Research Activities and Awards

April Barbour, a graduate student in the Department of Pharmaceutics working with Dr. Hartmut Derendorf, received a \$1,000 honorarium, an engraved certificate and a complimentary annual meeting registration 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*” to attend the 37th ACCP Annual Meeting in Philadelphia, PA.

Daniel Gonzalez, a graduate student in the Department of Pharmaceutics working with Dr. Hartmut Derendorf, received a \$1,000 honorarium, an engraved certificate and a complimentary annual meeting registration from the **American Colleges of Clinical Pharmacology (ACCP)** for his abstract entitled “*Effects of Plasma Protein Binding on Half-life of Elimination*” to attend the 37th ACCP Annual Meeting in Philadelphia, PA.

Christian Grimstein, a graduate student in the Department of Pharmaceutics working with Dr. Sihong Song, received a \$750 travel award from the **Biotechnology (BIOTEC) Section of American Association of Pharmaceutical Scientists (AAPS)** for his poster entitled “*Protein and Adeno-associated Virus Mediated Gene Therapies of Alpha-1 Antitrypsin Reduce Autoantibody Production and Inhibit Collagen-induced Arthritis*” to attend the 2008 AAPS Annual Meeting in Atlanta, GA.

Christian Hampp, a graduate student in the Department of Pharmaceutical Outcomes and Policy working with Dr. Almut Winterstein, received a certificate and complimentary meeting registration for his abstract entitled “*Palivizumab Utilization and Compliance with Recommendations in Florida*” to attend the 24th International Conference on Pharmacoepidemiology & Therapeutic Risk Management in Copenhagen, Denmark.

Jason Kwan, a graduate student in the Department of Medicinal Chemistry working with Dr. Hendrik Luesch, received a \$500 cash award and a \$1,000 travel award from the **American Society of Pharmacognosy (ASP)** for his poster entitled “*Grassystatins A-C from Marine Cyanobacteria, Potent Cathepsin E Inhibitors that Reduce Antigen Presentation*” to attend the 50th Anniversary Meeting and Golden Anniversary Celebration of the ASP in Honolulu, Hawaii.

Wenjun Li, a graduate student in the Department of Medicinal Chemistry working with Dr. Margaret James, received a \$1,075 travel award from the **Society of Toxicology (SOT)** for her poster entitled “*Mitochondrion as a Site of Metabolism of Dichloroacetate*” to attend the SOT Annual Meeting in Baltimore, MD.

Efe Odia, a graduate student in the Department of Pharmaceutical Outcomes and Policy working with Dr. Teresa Kauf, received a \$3,000 summer fellowship award from the **Epilepsy Foundation** for her project entitled “*Cost and Quality of Care in Epilepsy: An Episode of Care Approach*”.

Elvin Price, a graduate student in the Department of Pharmacotherapy and Translational Research working with Drs. Julie Johnson and Issam Zineh, received three year, \$87,531, Pre-doctoral Fellowship award from the **National Institute of Health (NIH)** for his project entitled “*Liver X Receptor-Alpha (LXRA) Polymorphisms in Heart Disease and Drug Response*”.

Jay Schaub, a graduate student in the Department of Pharmacodynamics working with Dr. Carrie Haskell-Luevano, received a \$500 travel award and a complimentary registration from the **Endocrine Society** for his poster entitled “*Single Vs. Paired Conventional Housing does not Significantly Effect Gene Expression or Physiological Parameters of the Melanocortin-4 Knockout or Wildtype Littermate Control Mice*” to attend the Endocrine Trainee Day Workshop at the Annual Meeting of the Endocrine Society (ENDO 09) in Washington, DC.

Stephan Schmidt, a graduate student in the Department of Pharmaceutics working with Dr. Hartmut Derendorf, received a \$1,000 travel award from the **American Society for Microbiology (ASM)** and the **Infectious Diseases Society of America (IDSA)** for his poster entitled “*In vitro Protein Binding Needs to be Measured in the Respective Medium and not Estimated from Reported Serum Binding*” to attend the 48th Annual Interscience Conference on Antimicrobial Agents (ICAAC)/IDSA 46th Annual Meeting in Washington, DC.

Jian Xu, a graduate student in the Department of Pharmaceutics working with Dr. Hartmut Derendorf, received a \$750 travel award from the **Pharmacokinetic, Pharmacodynamics and Drug Metabolism (PPDM) Section of American Association of Pharmaceutical Scientists (AAPS)** for his poster entitled *“Evaluation of Growth Retardation and Cortisol Suppression in Pediatrics after Inhaled Corticosteroids using a Mixed Effects Model”* to attend the 2008 AAPS Annual Meeting and Exposition in Atlanta, GA.

Professional Student Research Activities and Awards

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 2 professional student secure extramural funding.

William Robertson, a professional student working with Dr. Amber Beitelshees in the Department of Pharmacotherapy and Translational Research, received a \$250 travel award and plaque as a recipient of the **American Society for Clinical Pharmacology and Therapeutics (ASCPT) Presidential Trainee Award** for his paper entitled *“CXCL5/ENA-78 Genotype Progression to Death or Transplantation in Heart Failure Patients”*. He presented a poster and gave an oral presentation on his topic at the Annual ASCPT meeting in Washington DC in March 2009.

Gregory Welder, a professional student working with Dr. Issam Zineh in the Department of Pharmacotherapy and Translational Research, received a \$250 award and a plaque from the **American College of Clinical Pharmacy (ACCP)** to present his poster entitled *“Atorvastatin Regulates Global Inflammatory and Anti-inflammatory Gene Expression in Human Endothelial Cells”* at the ACCP Annual Meeting in Louisville, KY. Mr. Welder also received a \$250 award and a plaque as a recipient of the **American Society for Clinical Pharmacology and Therapeutics (ASCPT) Presidential Trainee Award** for his paper entitled *“Atorvastatin Reduces ENA-78 Chemokine Concentrations Independent of LDL-C Changes in a Cardiovascular Disease Free Population”*. He presented a poster and gave an oral presentation on his topic at the Annual ASCPT meeting in Washington DC in March 2009.

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; Bangkok, Thailand in 2007; and Madison, Wisconsin in 2008.

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

Thai

1. Chulalongkorn University
2. Mahidol University
3. Khon Kaen University
4. Srinakharinwirot University
5. Prince of Songkla University
6. Silpakorn University
7. Ubon Ratchathani University
8. Chiang Mai University
9. Naresuan University
10. Thammasat University
11. Rangsit University
12. Walailak University

U.S.

1. University of Florida
2. Purdue University
3. Ohio State University
4. University of Wisconsin
5. University of Arizona
6. University of Minnesota
7. University of Illinois at Chicago
8. University of Maryland at Baltimore
9. University of North Carolina
10. Rutgers University
11. University of Kentucky
12. University of Texas
13. University of Washington
14. University of Utah

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

The biennial meeting of the U.S. – Thai Pharmacy Consortium was held July 15-18, 2008 in Madison, Wisconsin. The Consortium welcomed six new members: five state universities from the U.S. (Iowa, Kentucky, Texas, Utah, and Washington) and one institution from southern Thailand, Walailak University. The highlight of the meeting was the signing of an extension to the Memorandum of Agreement renewing the commitment to collaboration among 11 Thai Universities and 14 U.S. Schools and Colleges of Pharmacy through 2023.

The program for the meeting was forward-looking. There were presentations concerning the globalization of both health care delivery and pharmaceutical education, and on furthering collaborations for training individuals in clinical and research roles. Break-out sessions allowed attendees from both countries to focus on understanding the needs and resources available to fund research in the basic sciences, establish programs for advanced training and research in clinical practice, and support social and administrative faculty in research on policy development and program evaluation. Break-out sessions on the second day considered additional issues common to both countries: developing professionalism among student pharmacists, assessing curricular outcomes, balancing the curriculum between basic and applied sciences and life-long learning.

U.S. delegates learned that Thai universities are continuing the shift away from total reliance on government funds to a multi-source model not unlike the situation in the U.S. There is a clear expectation for Thai faculty to compete successfully for research and recognition on a global level. Dr. William Mellon of the University of Wisconsin-Madison described a model for graduate training in which the Thai universities would supplement training of graduate students in Thailand with short and medium programs of study in the U.S. In my presentation I suggested strategies and tactics aimed at fulfilling consortium goals for collaborative research projects supported by international funding sources.

The meeting closed with a plenary session to address the question, “How can we best shape the future for the U.S.-Thai Consortium?” All agreed that the Consortium had advanced pharmacy education in Thailand and fostered collegial relationships among the member institutions.

The outcome of the discussion was the formation of a steering committee charged with proposing a more formal infrastructure by which the Consortium could capture the gains and make further advancements. It was acknowledged that a modest but stable source of funds would be required to support these activities, possible by assessing institutional members and alumni of the consortium programs. Having a designated staff person in each country with responsibility for maintaining consortium business would be helpful. Jeanette Roberts and Curt Johnson of the University of Wisconsin offered to convene meetings of the steering committee. See the Addendum for additional details regarding the Steering Committee members and charge.

Prince of Songkla University issued an invitation to the next meeting of the U.S. Thai Consortium, to be held in Krabi, Thailand during the latter part of June or early July, 2010.

Thai Students in the College of Pharmacy

Listed below (**Table 24**) is the Thai student enrolled during FY 08/09, although she is not the recipient of the Royal Thai Scholarships from her government to study abroad for either their Ph.D. or PharmD degree.

Table 24: Thai Students			
Name	Department	THAI Pharmacy College	Date Entered
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 17, 2008, in the Grand Ballroom at the Reitz Student Union from 6:00 PM to 8:00 PM. This year we had 114 faculty, staff and students. At the reception this year 14 new graduate students, 2 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 22nd Annual Research Showcase and Awards Recognition Day took place on Thursday, February 19, 2009, 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*; 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. Robert R. Ruffolo**, Retired President, Research and Development, Wyeth Corporation; **Dr. Michael A. Schwartz**, Dean Emeritus, College of Pharmacy; **Dr. Erin St. Onge**, Assistant Dean and Director, College of Pharmacy, Orlando Campus; **Dr. Jennifer Williams**, Assistant Dean and Director, College of Pharmacy, St. Petersburg Campus.

The winners of the oral competition are:

Senior Division – winner

Vinayak Shenoy Pharmacodynamics \$600 cash award
Title: “Prevention of Monocrotaline-induced Pulmonary Hypertension by Lenti-viral Mediated Gene Delivery of Angiotensin-(1-7)”

Senior Division – finalists

Navin Goyal Pharmaceutics \$300 cash award
Title: “Bioequivalence of Inhaled Corticosteroids: A Promising Solution”

Hong Li Pharmaceutics \$300 cash award
Title: “Adult Stem Cell Gene Therapy for Alpha 1-Antitrypsin Deficiency”

Yanfei Qi Pharmacodynamics \$300 cash award
Title: “AAV9 Mediates a more Specific Cardiac Gene Transfer in the Rat than AAV2, AAV5, AAV7, and AAV8”

Junior Division – winner

William Dismuke Pharmacodynamics \$600 cash award
Title: “Activation of Soluble Guanylate Cyclase and the BK_{ca} Ion Channel Decrease Trabecular Meshwork Cell Volume and Increase Outflow Facility: Potential Targets for New Ocular Hypotensives”

Junior Division – finalists

Wenjun Li Medicinal Chemistry \$300 cash award
Title: “Mitochondria as a Novel Site of Biotransformation of Dichloroacetate by Glutathione Transferase Zeta”

Jay Schaub Pharmacodynamics \$300 cash award
Title: “Obesity Syndrome Associated with Melanocortin-4 Receptor Knockout Genotype in Mice and its Mediation by Voluntary Exercise Appears to be Sex Dependant”

Levitt Division – winner

Christian Hampp Pharmaceutical Outcomes and Policy \$600 cash award
Title: “Cost-effectiveness of Respiratory Syncytial Virus Prophylaxis with Palivizumab from the Perspective of Florida Medicaid”

Levitt Division – finalist

Pranav Gandhi Pharmaceutical Outcomes and Policy \$300 cash award
Title: “Predictors of HealthStatus Change among Patients Treated with a Calcium Antagonist- or an Atenolol-led Hypertension Strategy in the INternational VERapamil SR-Trandolapril Study (INVEST)”

For the poster competition this year we had 39 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. Lisa Inge**, Assistant Director, College of Pharmacy, Jacksonville Campus; **Dr. William Buhi**, Professor Emeritus, Department of Obstetrics and Gynecology, College of Medicine; **Dr. Peter Stacpoole**, Director, Clinical and Translational Science Institute, Associate Dean, Clinical Research and Training, College of Medicine; **Dr. Bruce Stevens**, Professor, Department of Physiology and Functional Genomics, College of Medicine; **Dr. Julie Zito**, Professor, Pharmaceutical Health Services Research Department, University of Maryland; **Dr. Sandy William Zito**, Professor, College of Pharmacy and Allied Health Professions, St. Johns University.

The winners of the poster competition are:

Graduate Student Division – winners

Chinki Bhatia Pharmacodynamics \$300 cash award
Title: “Cannabinoid Receptor Agonists Potentiate Action Potential Independent Release of GABA in the Dentate Gyrus through a CBI Receptor Independent Mechanism”

Yan Ren Pharmaceutics \$300 cash award
Title: “Effects of $\alpha 7$ Nicotinic Receptor Gene Delivery on Processes Underlying Cell Viability”

Jane Ritho Pharmaceutical Outcomes and Policy \$300 cash award
Title: “Effect of Stimulant Medication on Height and Weight in Children with Attention Deficit Hyperactivity Disorder”

Pharmacy Student Division – winners

Stacy Chao Pharmaceutical Outcomes and Policy \$300 cash award
Title: “HIV Testing in the Emergency Department: A Survey of Florida Acute Care Hospitals”

Post-doctoral Fellow Division – winner

Christian Grimstein Pharmaceutics \$300 cash award
Title: “Alpha-1 Antitrypsin Ameliorates Development of Rheumatoid Arthritis in Mouse Model”

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 and Equipment 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 twice 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 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 serves as a member of the College's Self-study steering committee. This committee is 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 and this past years served as the Chair of the Committee. 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.

- **Academic Infrastructure Council:** As chair of the Land Use and Facilities Planning Committee the Executive Associate Dean is also a member of the Senate's Academic Infrastructure Council. This council's area encompasses the University's infrastructure supporting the University's academic mission, including the provision of physical facilities and other physical resources; libraries; information technology; the campus master plan; and the availability of adequate computer, classroom, laboratory and other resources. This Committee met monthly throughout the Fall and Spring Semesters of 2008-2009.
- **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 2008 (September) and Spring 2009 (April) National Advisory Board Meetings.
- **AACP Interim Meeting:** The Executive Associate Dean attended the 2009 AACP Interim Meeting in Arlington, VA, from February 21st to February 25th, 2009.
- **AACP Annual Meeting:** The Executive Associate Dean attended the 2009 AACP Annual Meeting in Boston, MA, from July 18th to July 22th, 2009.
- **SRA International Meeting:** The Program Assistant attended the 2009 NIH Regional Seminar in Atlanta, GA from April 16th to April 17th, 2009.

Appendices

Section

A = Letter to Graduate Applicants

B = Complete Listing of Extramural Support by Department and Faculty

C = 22nd 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 08/09

PHARMACOTHERAPY AND TRANSLATIONAL RESEARCH

Faculty	Amount	Number	Agency	Project Title
Amber Beitelshes	\$27,749	1	National Institute of Health	Uncoupling Protein Polymorphisms and Cadiometabolic Responses to Beta-blockers
Rhonda Cooper-DeHoff	\$138,243	1	National Institute of Health	Metabolic Effects of Antihypertensive Drugs
	\$10,466	1	Miscellaneous Donors	Miscellaneous Donors
Benjamin Epstein	\$68,500	1	Glaxo Smithkline	Non-invasive Determination of Central Aortic Blood Pressure in Hypertensive Patients Treated with Controlled-release Carvedilol or Atenolol
Reginald Frye	\$15,062	2	Multiple Sponsors	Multiple Sponsors
	\$8,000	1	National Institute of Health	Uric Acid and Hypertension in African-Americans
John Gums	\$13,513	1	American Home Products Corp.	Steven Smith Post-doctoral Fellowship Research Award: Antimicrobial Resistance Management
Leslie Hendeles	\$22,275	3	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
	\$885	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
	\$26,965	1	IVAX Corporation	A Pilot Study to Evaluate the Dose-response of Inhaled Formoterol to Inhibit Airway Responsiveness to Methacholine in Patients with Mild Asthma
	\$33,586	4	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

PHARMACOTHERAPY AND TRANSLATIONAL RESEARCH (cont.)

Faculty	Amount	Number	Agency	Project Title
Leslie Hendeles (cont.)	\$4,375	1	Genentech Incorporated	A Phase III 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
	\$10,000	1	Qualia Clinical Services	A Multi-center, Double-blind, Randomized, Placebo-controlled, 2-way Crossover Study of the Efficacy and Safety of Pangestyme in the Treatment of Pancreatic Insufficiency Associated with Cystic Fibrosis
	\$4,542	2	Alnara 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
	\$108	1	University of Florida Research Foundation	Miscellaneous Residual
Julie Johnson	\$8,595	2	Nemours Children's Clinic	Biostatistics and Bioinformatics Information
	\$13,574	3	Nemours Children's Clinic	Nemours Children's Clinic
	\$2,020,788	1	National Institute of Health	Pharmacogenomic Evaluation of Antihypertensive Responses
	\$40,000	1	University of Pennsylvania & National Institute of Health	Clarification of Optimal Anticoagulation through Genetics (COAG)
	\$20,000	2	American Association of University Women	Educational Fellowship
	\$51,143	1	Stanford University and National Institute of Health	The International Warfarin Pharmacogenetics Consortium Genome Wide Association Study
	\$21,342	1	Cedars Sinai Medical Center and National Institute of Health	Women's Ischemia Syndrome Evaluation (WISE) Coronary Vascular Dysfunction
Taimour Langae	\$8,013	1	National Institute of Health	Pharmacotoxicology of Trichloroethylene Metabolites
	\$15,500	1	Micromedic Technologies	Pharmacogenesis for Bisphosphonate-associated Osteonecrosis on the Jaw

PHARMACOTHERAPY AND TRANSLATIONAL RESEARCH (cont.)

Faculty	Amount	Number	Agency	Project Title
Charles Peloquin	\$2,220	1	Multiple Sponsors	Multiple Sponsors
Daniel Robinson	\$125,000	2	Area Health Care Centers	North Florida Area Health Education Centers Program – Core Services
	\$25,000	1	Area Health Care Centers	Tobacco Training and Cessation Program
Issam Zineh	\$29,177	1	National Institute of Health	Liver X Receptor-Alpha (LXRA) Gene Polymorphism in Heart Disease and Drug Response

MEDICINAL CHEMISTRY

Faculty	Amount	Number	Agency	Project Title
Raymond Bergeron	\$574,142	2	National Institute of Health	Iron Chelators Predicated on Desferrithiocin
Raymond Booth	\$241,271	1	National Institute of Health	Novel 5HT2C Agonist Drugs with 5HT2A Antagonist Activity for Cocaine Addiction
	\$296,826	1	National Institute of Health	Serotonin 5HT2C Agonist Drugs with 5HT2A/SB Antagonist Activity
Margaret James	\$64,746	1	National Institute of Health	Modulation of Steroid Sulfation by Celecoxib-like Drugs
	\$900	2	University of Florida Foundation	Modulation of Steroid Sulfation by Celecoxib-like Drugs
	\$10,008	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
	\$200,906	1	National Institute of Health	Activation of the Cancer Preventive NRF2-ARE Pathway by Seaweed
	\$311,950	1	National Institute of Health	Chemistry and Biology of Largazoles
	\$545,052	2	National Institute of Health	Pilot-scale Libraries of Marine Cyanobacterial Natural Products

PHARMACODYNAMICS

Faculty	Amount	Number	Agency	Project Title
Dorette Ellis	\$7,000	1	Alcon Research	Drug-induced Cell Volume Regulation in TM and SC
C. Jason Frazier	\$544,586	4	National Institute of Health	Endocannabinoids and Tonic BAGA in the Dentate Gyrus
Carrie Haskell-Luevano	\$288,796	1	National Institute of Health	Endogenous G-Protein Coupled Receptor Antagonists
	\$19,837	1	U.S.-Israel Binational Science Foundation	Development of Novel Oral Available Backbone Cyclic MS4R Agonist as Anti-obesity Drug Lead
	\$15,214	1	University of Cincinnati & National Institute of Health	Discovery of Alpha-MS Analogs for Skin Cancer Prevention
	\$11,512	1	Miscellaneous Donors	Miscellaneous Donors
	\$15,347	1	National Institute of Health	Physiology and Genetics of Food Procurement in Rodents
	\$67,031	1	National Institute of Health	Structural Determinants of Neuroendocrine Receptors
Michael Katovich	\$40,932	1	National Institute of Health	AT1 Receptor Control in Chronic Hypertension Attenuation
	\$82,500	1	American Heart Association	Cardioprotective Effects of AT2 Receptor Overexpression
	\$2,000	1	University of Florida Foundation	Katovich Pharmacodynamics Lab
Maureen Keller-Wood	\$243,037	1	National Institute of Health	The Baroreflex in Pregnancy: Effects of Adrenal and Placental Steroids
	\$262,054	1	National Institute of Health	Effects of Maternal Cortisol on Fetal and Neonatal Growth and Metabolism
	\$23,012	1	National Institute of Health	Renal Transporters and Fetal Neuroendocrinology
Joanna Peris	\$9,838	1	Florida Department of Health	Balanced, Polyvalent Antiglutarnatergic Action as a Novel Approach to Efficacious and Neuroprotection

PHARMACEUTICS

Faculty	Amount	Number	Agency	Project Title
Veronika Butterweck	\$39,855	2	Steigerwald Arzneimittelwerk	Gene Expression Profiling in Rat Brain Tissues Exposed to St. Johns Wort Treatment and Chronic Mild Stress
	\$37,000	1	Finzelberg GmbH & Company	Screening of Different Artemisia Dracunculus Extracts for Antidiabetic Effects in Rats
	\$35,000	1	Merck Selbstmedication	Anxiolytic Effects of Fractions Obtained from Passiflora Incarnata in the Elevated Plus Maze in Mice
	\$4,973	2	Pascoe GMBH	Mechanism of Anxiolytic Action of a Passion Flower Extract and Anxiolytic Effects after Chronic Treatment
	\$22,446	1	Kasima Medical Development	Antidepressant Activity of Different Pholiolola Rosea Extract Preparations in the Forced Swimming Test in Rats
	\$35,000	1	Max Zeller Soehne AG	Screening of Various Passion Flower Extracts for Anxiolytic Activity
	\$80,000	2	Florida Department of Citrus	The Center for Food-Drug Interaction
Hartmut Derendorf	\$184,640	1	Johnson & Johnson	Exploratory Study to Evaluate the Penetration of Johnson & Johnson
	\$37,500	1	Glaxo Smithkline – Croatia	Disease Modeling in Psoriasis
	\$162,675	1	Trius Therapeutics	Microdialysis Study of TR-701-102
	\$5,000	1	Golin-Harris International Incorporated	Grapefruit-drug Interaction
	\$100,000	1	Pfizer Incorporated	Pfizer Graduate Fellowship Award
Guenther Hochhaus	\$43,950	1	Johnson & Johnson	Microdialysis Validation Study of a New Flouaraquinolone
	\$12,000	1	Johnson & Johnson	Exploratory Study to Evaluate the Penetration of Johnson & Johnson
	\$10,000	1	Osmopharm USA	Huperzine A in Human lasma

PHARMACEUTICS (cont.)

Faculty	Amount	Number	Agency	Project Title
Jeff Hughes	\$189,598	1	University of North Texas & National Institute of Health	Discovery of Novel Drugs for Alzheimer's Disease
Sihong Song	\$240,619	1	National Institute of Health	Recombinant AAV for Correction of Genetic Abnormalities
	\$56,936	1	Alpha One Foundation	Development of AAT Deficient Mouse Models

PHARMACEUTICAL OUTCOMES AND POLICY

Faculty	Amount	Number	Agency	Project Title
Carole Kimberlin	\$6,000	1	American Foundation for Pharmaceutical Education	Development and Validation of the Medication Affordability Scale: AFPE Pre-doctoral Fellowship
Earlene Lipowski	\$710,193	1	Agency for Health Care Administration	Evaluation of the Florida Medicaid Aged and Disabled Program

ADMINISTRATION

Faculty	Amount	Number	Agency	Project Title
Julie Henderson	\$96,125	3	U.S. Army	A Model Immersive Cultural Learning Environment
William Millard	\$59,176	1	Shands Teaching Hospital	Equipment Grant from Shands "Quasi" Endowment Fund

22nd ANNUAL RESEARCH SHOWCASE AND AWARDS RECOGNITION DAY

THURSDAY, FEBRUARY 19th, 2009



UNIVERSITY OF FLORIDA
COLLEGE OF PHARMACY

A SPECIAL THANKS TO THIS YEAR'S SPONSORS

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Drug & Biotechnology Development, LLC
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SCHEDULE OF EVENTS

8:00am - 9:00am Set-up Poster Presentations (Reception Hall, HPNP Building)

POSTER COMPETITION

9:00am - 11:30am **Poster Competition** – Students Present for Judging (Reception Hall, HPNP Building)

ORAL COMPETITION

1:00pm - 1:10pm **Introduction** – Dr. William Millard, Executive Associate Dean (Room G-301, HPNP Building)

Levitt Division (20 minute presentations)

1:10pm - 1:30pm Pranav Gandhi
1:30pm - 1:50pm Christian Hampp

Junior Division (15 minute presentations)

1:55pm - 2:10pm William M. Dismuke
2:10pm - 2:25pm Wenjun Li
2:25pm - 2:40pm Jay Schaub

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

Senior Division (20 minute presentations)

2:50pm - 3:10pm Navin Goyal
3:10pm - 3:30pm Hong Li
3:30pm - 3:50pm Yanfei Qi
3:50pm - 4:10pm Vinayak Shenoy

4:15pm - 5:15pm **Keynote Address** – Robert R. Ruffolo, Jr., Ph.D., Retired President, Research & Development, Wyeth Pharmaceuticals and Senior Vice President, Wyeth Corporation. *“The Trials and Tribulations of a Medical Breakthrough: The Discovery and Development of Coreg (Carvedilol) for the Treatment of Congestive Heart Failure”* (Room G-101, HPNP Building)

5:30pm - 7:00pm **Awards Reception** – Refreshments and Announcement of Winners (Reception Hall, HPNP Building)

ORAL COMPETITION

LEVITT DIVISION

#1 Presenter: **Pranav Handhi**
Department: Pharmaceutical Outcomes and Policy
Research Title: Predictors of Health Status Change Among Patients Treated with a Calcium Antagonist- or an Atenolol-led Hypertension Strategy in the International Verapamil SR-Trandolapril Study (INVEST)

#2 Presenter: **Christian Hampp**
Department: Pharmaceutical Outcomes and Policy
Research Title: Cost-effectiveness of Respiratory Syncytial Virus Prophylaxis with Palivizumab from the Perspective of Florida Medicaid

JUNIOR DIVISION

#1 Presenter: **William M. Dismuke**
Department: Pharmacodynamics
Research Title: Activation of Soluble Guanylate Cyclase and the BK_{Ca} Ion Channel Decrease Trabecular Meshwork Cell Volume and Increase Outflow Facility: Potential Targets for New Ocular Hypotensives

#2 Presenter: **Wenjun Li**
Department: Medicinal Chemistry
Research Title: Mitochondria as a Novel Site of Biotransformation of Dichloroacetate by Glutathione Transferase Zeta

#3 Presenter: **Jay Schaub**
Department: Pharmacodynamics
Research Title: Obesity Syndrome Associated with Melanocortin-4 Receptor Knockout Genotype in Mice and its Mediation by Voluntary Exercise Appears to be Sex Dependant

SENIOR DIVISION

#1 Presenter: **Navin Goyal**
Department: Pharmaceutics
Research Title: Bioequivalence of Inhaled Corticosteroids: A Promising Solution

#2 Presenter: **Hong Li**
Department: Pharmaceutics
Research Title: Adult Stem Cell Gene Therapy for Alpha 1-Antitrypsin Deficiency

#3 Presenter: **Yanfei Qi**
Department: Pharmacodynamics
Research Title: AAV9 Mediates a more Specific Cardiac Gene Transfer in the Rat than AAV2, AAV5, AAV7, and AAV8

#3 Presenter: **Vinayak Shenoy**
Department: Pharmacodynamics
Research Title: Prevention of Monocrotaline-induced Pulmonary Hypertension by Lenti-viral Mediated Gene Delivery of Angiotensin-(1-7)

POSTER COMPETITION

- # 1 Investigating Alternative Signaling Pathways for the Melanocortin-4 Receptor**
Presenter: Sarah Carey (Pharmacodynamics/Pharmacy Student)
Authors: S Carey, J Schaub, M Dirain, Z Xiang, C Haskell-Luevano
- # 2 HIV Testing in the Emergency Department: A Survey of Florida Acute Care Hospitals**
Presenter: Stacy Chao (Pharmaceutical Outcomes and Policy/Pharmacy Student)
Authors: S Chao, T Kauf, S Linden
- # 3 Consumer Comprehension of Consumer Medication Information Leaflets**
Presenter: Erica Fernandez (Pharmaceutical Outcomes and Policy/Pharmacy Student)
Authors: E Fernandez, A Winterstein, S Linden, A Lee, C Kimberlin
- # 4 Inclusion of Off-label Indications in Consumer Medication Information Leaflets**
Presenter: Abigail Lee (Pharmaceutical Outcomes and Policy/Pharmacy Student)
Authors: A Lee, C Kimberlin, E Fernandez, A Winterstein
- # 5 The Effects of Atorvastatin on MCP-1 Levels in Healthy Adults**
Presenter: Michael Meldrum (Pharmacy Practice/Pharmacy Student)
Authors: M Meldrum, J Shuster, D Theriaque, G Welder, M Haller, R Schofield, I Zineh
- # 6 Modifications of the Melanocortin Tetr peptide Ac-His-DPhe-Arg-Trp-NH₂ at the DPhe and Arg Positions and their Interactions with Mouse Melanocortin Receptors**
Presenter: Marie Morrow (Pharmacodynamics/Pharmacy Student)
Authors: M Morrow, E Haslach, A Singh, M Dirain, C Haskell-Luevano
- # 7 Effect of Maternal Cortisol on Expression of Placental Genes Related to Fetal and Placental Growth**
Presenter: Marjorie Rochette (Pharmacodynamics/Pharmacy Student)
Authors: M Rochette, M Keller-Wood
- # 8 Medication Errors in Otolaryngology Surgery**
Presenter: Rebecca Rosenwasser (Pharmaceutical Outcomes and Policy/Pharmacy Student)
Authors: R Rosenwasser, A Winterstein, P Antonelli, A Rosenberg, E Rosenberg

POSTER COMPETITION (cont.)

- # 9 The Role of the Poison Control Center: A Community Pharmacist Prospective**
Presenter: Shelby Troendle (Pharmacy Practice/Pharmacy Student)
Authors: S Troendle, S Normann
- # 10 Atorvastatin Reduces ENA-78 Chemokine Concentrations Independent of LDL-C Changes in a Cardiovascular Disease Free Population**
Presenter: Greg Welder (Pharmacy Practice/Pharmacy Student)
Authors: G Welder, R Schofield, I Zineh
- # 11 Alpha-1 Antitrypsin Ameliorates Development of Rheumatoid Arthritis in Mouse Model**
Presenter: Christian Grimstein (Pharmaceutics/Post-doctoral Fellow)
Authors: C Grimstein, Y-K Choi, S Song
- # 12 In Vivo Anti-tumor Effect of Fusion Plasmid hp19ART-TAT using FGF2-targeted Cationic Lipid System**
Presenter: Guoqin Niu (Pharmaceutics/Post-doctoral Fellow)
Authors: G Niu, S Sullivan, J Hughes
- # 13 Population Pharmacodynamic Modeling of Ordered Categorical Data from Patients with Plaque Psoriasis**
Presenter: Sreedharan Sabarinath (Pharmaceutics/Post-doctoral Fellow)
Authors: S Sabarinath, N Goyal, G Schmith, H Derendorf
- # 14 Incorporation of Reverse Turn Mimetic into Chimeric Melanocortin-AGRP Peptide Template: Design, Synthesis and Pharmacology**
Presenter: Anamika Singh (Pharmacodynamics/Post-doctoral Fellow)
Authors: A Singh, J Holder, A Wilczynski, R Witek, C Haskell-Luevano
- # 15 Soft Tissue Penetration of Cefuroxime Determined by Clinical Microdialysis in Morbidly Obese Patients Undergoing Abdominal Surgery**
Presenter: April Barbour (Pharmaceutics/Graduate Student)
Authors: A Barbour, S Schmidt, W Rout, K Ben-David, O Burkhardt, H Derendorf
- # 16 Cannabinoid Receptor Agonists Potentiate Action Potential Independent Release of GABA in the Dentate Gyrus Through a CBI Receptor Independent Mechanism**
Presenter: Chinki Bhatia (Pharmacodynamics/Graduate Student)
Authors: C Bhatia, M Hofmann, C Frazier

POSTER COMPETITION (cont.)

17 Persistent of Stimulant Treatment among Youths Newly Diagnosed with Attention Deficit/Hyperactivity Disorders (ADHD)

Presenter: Chih-Ying Chen (Pharmaceutical Outcomes and Policy/Graduate Student)
Authors: C-Y Chen, A Winterstein

18 Design, Synthesis and Pharmacology of a Peptide Library Modeling the Melanocortin Tetrapeptide, Ac-His-DPhe-Arg-Trp-NH₂, to Function as Selective MC4R Antagonists

Presenter: Erica Haslach (Pharmacodynamics/Graduate Student)
Authors: E Haslach, M Dirain, C Haskell-Luevano

19 Hydrochlorothiazide Modulates Cardiometabolic Gene Expression in Human Endothelial Cells

Presenter: Julio Duarte (Pharmacy Practice/Graduate Student)
Authors: J Duarte, J Johnson, B Kone, I Zineh

20 The Effect of Hydrochlorothiazide on Endothelial Expression of Sirtuin-1, a Diabetes-associated Gene

Presenter: Julio Duarte (Pharmacy Practice/Graduate Student)
Authors: J Duarte, J Johnson, B Kone, I Zineh

21 Effects of PAT, a Novel 5HT₂ Modulator, on Extracellular Neurotransmitter Levels in the Striatum and Nucleus Accumbens

Presenter: James Kasper (Pharmacodynamics/Graduate Student)
Authors: J Kasper, R Booth, J Peris

22 Novel PLA₂-conjugated Polymeric Nanoparticles for Non-viral Gene Delivery

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

23 Patient Counseling Efforts in U.S. Community Pharmacies: Associations to Pharmacy and Personnel Attributes

Presenter: Stephan Linden (Pharmaceutical Outcomes and Policy/Graduate Student)
Authors: S Linden, C Kimberlin, A Winterstein

24 PK/PD Studies Focusing on Physical Dependence and Analgesic Tolerance of Fentanyl in Rats

Presenter: Jiang Liu (Pharmaceutics/Graduate Student)
Authors: J Liu, H Pan, A Bruijnzeel, F Wong, M Gold, A Mauderli, H Derendorf

POSTER COMPETITION (cont.)

25 Role of Mitochondria in Manganese-stimulated Reactive Oxygen Species Production in Microglia

Presenter: Yue Liu (Pharmacodynamics/Graduate Student)
Authors: Y Liu, K Lokuta, G Dutta, P Zhang, D Barber, B Liu

26 Effect of a Lysolipid on the Efficiency of pH Sensitive Liposomes

Presenter: Ryan Mesaros (Pharmaceutics/Graduate Student)
Authors: R Mesaros, J Hughes

27 Inhalable Corticosteroid Nanoparticles for Asthma Management

Presenter: Gina Patel (Pharmaceutics/Graduate Student)
Authors: G Patel, G Hochhaus

28 Is Protein Binding Important for Drugs with High Receptor Affinities?

Presenter: Gina Patel (Pharmaceutics/Graduate Student)
Authors: G Patel, G Hochhaus

29 New Digitization Methods for the Analysis of Synergistic Dopaminergic Interactions with Apomorphine

Presenter: Stephen Phipps (Pharmaceutics/Graduate Student)
Authors: S Phipps, V Butterweck

30 Population Pharmacokinetic Model of Regular Human Insulin Following Different Routes of Administration

Presenter: Elizabeth Potocka (Pharmaceutics/Graduate Student)
Authors: E Potocka, R Baughman, H Derendorf

31 OATP1B1 Polymorphic Effects on Inflammatory Mediators in Atorvastatin-treated Subjects

Presenter: Melonie Potvin (Pharmacy Practice/Graduate Student)
Authors: M Potvin, G Welder, I Zineh, R Schofield, R Frye

32 Effects of $\alpha 7$ Nicotinic Receptor Gene Delivery on Processes Underlying Cell Viability

Presenter: Yan Ren (Pharmaceutics/Graduate Student)
Authors: Y Ren, E Meyer, J Hughes

POSTER COMPETITION (cont.)

33 Effect of Stimulant Medication on Height and Weight in Children with Attention Deficit Hyperactivity Disorder

Presenter: Jane Ritho (Pharmaceutical Outcomes and Policy/Graduate Student)
Authors: J Ritho, C Garvan, R Bussing

34 Initiation of Hydroxyurea Therapy Among Sickle Cell Disease Patients Enrolled in a Medicaid Program

Presenter: Jane Ritho (Pharmaceutical Outcomes and Policy/Graduate Student)
Authors: J Ritho, A Hartzema

35 Oxidative Stress-mediated Cooperative Dopaminergic Neurotoxicity of Pesticides Dieldrin and Lindane

Presenter: Heera Sharma (Pharmacodynamics/Graduate Student)
Authors: H Sharma, P Zhang, D Barber, B Liu

36 Retard Memory Loss in APP/PS1 Mice Model through AAV-8 Gelsolin Delivery

Presenter: Zhaohua Wang (Pharmaceutics/Graduate Student)
Authors: Z Wang, E Meyer, M King, J Hughes

37 Utilizing Mechanism-based Pharmacokinetic/Pharmacodynamic Models to Understand and Prevent Antimicrobial Resistance

Presenter: Benjamin Wu (Pharmaceutics/Graduate Student)
Authors: B Wu, H Derendorf

38 Herb-drug Interactions: Investigating the Effects of Herbal Supplements on Glucuronidation of Drugs

Presenter: Mohamed-Eslam Mohamed (Pharmacy Practice/Graduate Student)
Authors: M-E Mohamed, R Frye

39 Discovery of Secondary Metabolites from Marine Cyanobacteria with Diverse Bioactivities

Presenter: Jason Kwan (Medicinal Chemistry/Graduate Student)
Authors: Kwan, T Meickle, D Ladwa, M Teplitski, V Paul, H Luesch

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