

Office of Research and Graduate Studies

2005



2006

Annual Report

**College of Pharmacy
University of Florida**

Office of Research and Graduate Studies Staff

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Table of Contents

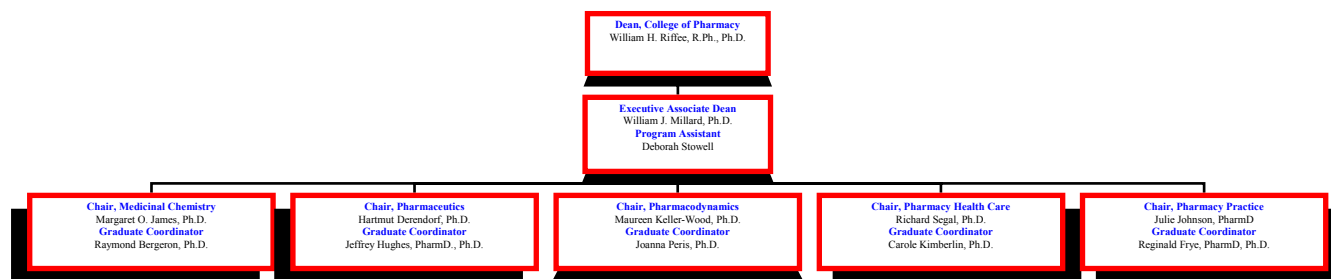
Section	Page
Introduction	1
Graduate Education and Program Activities	2
Graduate Programs in the College.....	2
Graduate Studies Committee Activities.....	2
College of Pharmacy Graduate Student Organization.....	3
Graduate Faculty, Graduate Student, Post-doctoral Fellow, Visiting Scholar and Exchange Student Demographics.....	3
Graduate Student Recruitment Activities.....	9
Exchange Students in the College of Pharmacy.....	9
Graduate Student Graduation Activities.....	10
Graduate Student Funding and Awards.....	15
Graduate Minority Activities and Awards.....	19
Meetings and Conferences.....	19
Research Activities in the College of Pharmacy	20
Grant and Contract Efforts and Funding.....	20
Licensing and Royalty Income.....	26
Graduate Student Research Activities.....	26
Professional Student Research Activities.....	27
Post-doctoral Fellow Research Activities.....	28
U.S.-Thai Consortium Activities	29
History of the U.S.-Thai Consortium.....	29
9th U.S.-Thai Pharmacy Education Consortium Meeting.....	29
Thai Students in the College of Pharmacy.....	29
Visiting Faculty.....	30
ORGS Coordinated Events	31
Post-baccalaureate Reception.....	31
Annual Research Showcase and Awards Recognition Day.....	31
Other ORGS Activities	34
Committee Assignments.....	34
Conferences Attended Related to ORGS Activity.....	35
Appendices	36
A= Letter to Graduate Applicants.....	37
B= Complete Listing of Extramural Support by Department and Faculty.....	39
C= 19 th Annual Research Showcase and Awards Recognition Day Booklet.....	45

Introduction

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

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

FIGURE 1: Administrative Flow Chart for the ORGS



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

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

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

The Executive Associate Dean also acts as the College's principal liaison for the U.S.-Thai Consortium. This initiative is a major international training agreement between all of the colleges of pharmacy in the country of Thailand and selected pharmacy schools in the United States (see: **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 Stowell. 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), Pharmacy Health Care Administration (recognized in 1996), and Pharmaceutics (recognized in 1998).

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

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

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

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

The first **Forensic Science Program** online course to be taught was Forensic Toxicology in the Fall of 2000 with only 30 enrollees. Currently there are over 550 enrollments (master's program, certificate program or both) each semester representing 350 students from 24 different countries. In Spring 2006, the **Forensic Science Program** was recognized by the American Distance Education Consortium with the National Award for Excellence in Distance Education.

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**. 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. Joanna Peris	Pharmacodynamics
	Dr. Carole Kimberlin	Pharmacy Health Care Administration
	Dr. Jeffrey Hughes	Pharmaceutics
	Dr. Reginald Frye	Pharmacy Practice
	Mr. James Sacco	President of COP Graduate Student Organization
Ex-officio Member:	Dr. William Riffie	Dean

The GSC met nine times throughout the year. Issues that were deliberated included:

- Selection of the FY 05/06 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 19th 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 (3-4 per year) and also sits in on the Graduate Studies Committee as a voice for the graduate students. **Mr. James Sacco**, from the department of Medicinal Chemistry, 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 43 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**. Eighty-nine graduate students were engaged in studies leading to either the M.S. or Ph.D. degree this year. The COP graduated sixteen Ph.D. students and four M.S. Students (see below: **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 was 45 compared to 44 female students for a ratio of 51/49 percent. The college has a 35/65 percent American/Foreign student ratio as well.

U.S. minority students comprised 9% (8 of 89) of the COP graduate student population (**Table 3**). This is a slight drop compared to previous years but overall has remained about the same over the last five academic years. The minority graduate student percentage was 13.2% (12 of 91) in FY 04/05; 13.9% (11 of 79) in FY 03/04; 13.2% (10 of 76) in FY 02/03; 14.5% (11 of 76) in FY 01/02; and 13.9% (10 of 72) in FY 00/01. 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 37. Pharmacy Health Care Administration had 24 students, Medicinal Chemistry had 20 students and Pharmacodynamics had 8 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 05/06 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** and Exchange Students in **Table 8**.

Table 1: Graduate Faculty		
Department/Center	Faculty Name	
Medicinal Chemistry	Raymond Bergeron	Hendrik Luesch
	Raymond Booth	Kenneth Sloan
	Carrie Haskell-Luevano	Ian Tebbett
	Margaret James	Donna Wielbo
Pharmaceutics/ Center for Drug Discovery & Center for Drug Interaction	Nicholas Bodor	Jeffrey Hughes
	Veronika Butterweck	Cary Mobley
Research and Education	Hartmut Derendorf	Sihong Song
	Guenther Hochhaus	Sean Sullivan
Pharmacodynamics	Dorette Ellis	Michael Meldrum
	Jason Frazier	William Millard
	Michael Katovich	Joanna Peris
	Maureen Keller-Wood	William Riffie
	Bin Liu	
Pharmacy Health Care Administration/ Center for Research in Pharmaceutical Care	Donna Berardo	Earlene Lipowski
	David Brushwood	L. Douglas Ried
	Abraham Hartzema	Richard Segal
	Teresa Kauf	Almut Winterstein
	Carole Kimberlin	
Pharmacy Practice/ Center for Pharmacogenomics	Paul Doering	Larry Lopez
	Reginald Frye	Michael McKenzie
	Leslie Hendeles	J. Daniel Robinson
	Julie Johnson	Issam Zineh
	Taimour Langaee	

Table 2: Graduate Students

Department/Center	Name	Date Entered	Expected Grad Date	Degree Sought	Mentor
Medicinal Chemistry	Irani, Boman **	Aug. 00	Aug. 05	Ph.D.	Haskell-Luevano
	Jiang, Yi	Jan. 05	Dec. 08	Ph.D.	Bergeron
	Kwan, Jason *	Aug. 05	Aug. 09	Ph.D.	Bergeron
	Majumdar, Susruta **	Aug. 02	Aug. 06	Ph.D.	Sloan
	Merritt, Kristen	Aug. 02	May. 07	Ph.D.	James
	Nyagode, Betty	Aug. 02	Dec. 06	Ph.D.	James
	Palusak, Ryan	Jan. 05	Dec. 08	Ph.D.	Haskell-Luevano
	Proneth, Bettina	Jan. 04	Dec. 08	Ph.D.	Haskell-Luevano
	Rivera-Portalatin, Nilka	Jan. 03	Dec. 06	Ph.D.	Prokai
	Sacco, James **	Aug. 01	Aug. 06	Ph.D.	James
	Stuchal, Leah **	Aug. 00	Dec. 05	Ph.D.	James
	Sun, Zhuming *	Aug. 05	Aug. 09	Ph.D.	Bergeron
	Taori, Kanchan *	Jan. 06	Dec. 10	Ph.D.	Luesch
	Thomas, Joshua **	Aug. 01	Aug. 06	Ph.D.	Sloan
	Todorovic, Aleksandar **	Aug. 01	May. 06	Ph.D.	Haskell-Luevano
	Wang, Xiaoli **	Aug. 02	Aug. 06	Ph.D.	Prokai
	Wasdo, Scott **	Aug. 98	Aug. 05	Ph.D.	Perrin/Sloan
	Wilson, Krista	Aug. 03	May. 07	Ph.D.	Haskell-Luevano
	Yang, Shuo **	Aug. 02	Dec. 05	M.S.	Schulman
	Yao, Hua	Aug. 01	Dec. 06	Ph.D.	Bergeron
Pharmaceutics/ Center for Drug Discovery & Center for Drug Interaction Research and Education	Barbour, April *	Aug. 05	May. 10	Ph.D.	Hughes
	Castro, Whocely	Aug. 02	May. 06	Ph.D.	Derendorf
	Dravid, Prajakta	Aug. 04	Aug. 08	Ph.D.	Hughes/Frye
	Driessen, Wouter	Aug. 03	Aug. 07	Ph.D.	Sullivan
	Ghobrial, Oliver	Aug. 04	Aug. 08	Ph.D.	Hughes
	Goyal, Navinkumar	Aug. 04	Aug. 08	Ph.D.	Hughes
	Grimstein, Christian	Jan. 05	Dec. 09	Ph.D.	Frye
	Grundmann, Oliver	Aug. 04	Aug. 08	Ph.D.	Butterweck
	Hirko, Aaron **	Aug. 01	Aug. 06	Ph.D.	Hughes
	Le, Myphuong *	Aug. 05	May. 10	Ph.D.	Hughes
	Li, Hong	Aug. 04	Aug. 08	Ph.D.	Hughes
	Li, Yanjun	Aug. 04	Aug. 08	Ph.D.	Hughes
	Liu, Jiang *	Aug. 05	May. 10	Ph.D.	Hughes
	Lobmeyer, Maximilian	Aug. 04	Aug. 08	Ph.D.	Hughes
	Mohamed, Mohamed *	Aug. 05	May. 10	Ph.D.	Hughes
	Mudunuri, Keerti	Jan. 04	Aug. 08	Ph.D.	Hughes
	Navare, Hrishikesh *	Aug. 05	May. 10	Ph.D.	Hughes
	Nguyen, Vien **	Aug. 99	May. 06	Ph.D.	Prokai
	Patel, Gina *	Aug. 05	May. 10	Ph.D.	Hughes
	Phipps, Stephen	Aug. 04	Aug. 08	Ph.D.	Hughes
Pinto, Elanor	Aug. 03	Aug. 07	Ph.D.	Hochhaus	
Potocka, Elizabeth	Aug. 04	Aug. 08	Ph.D.	Hughes	
Price, Elvin	Aug. 04	Aug. 09	Ph.D.	Johnson	
Ren, Ke **	Jan. 02	Dec. 05	Ph.D.	Hughes	
Sarawek, Sasiporn	Jan. 03	Aug. 07	Ph.D.	Butterweck	
Schentrup, Anne **	Aug. 04	Dec. 05	M.S.	Haskell-Luevano	

* new students entering a graduate program during FY 05/06

** students who graduated with an M.S. or Ph.D. during FY 05/06

Table 2: Graduate Students (con't)

Department/Center	Name	Date Entered	Expected Grad Date	Degree Sought	Mentor
Pharmaceutics/ Center for Drug Discovery & Center for Drug Interaction Research and Education (con't)	Schmidt, Stephan *	Aug. 05	May. 10	Ph.D.	Derendorf
	Tang, Mei	Aug. 02	Aug. 06	Ph.D.	Song
	Tayab, Zia	Aug. 03	Aug. 07	Ph.D.	Hochhaus
	Toussaint, Nathalie	Aug. 02	May. 06	Ph.D.	Sullivan
	Vanachayangkul, Pattaraporn	Aug. 04	Aug. 08	Ph.D.	Hughes
	Villegas, Leah	Aug. 02	May. 06	Ph.D.	Sullivan
	Wang, Nasha	Aug. 04	Aug. 08	Ph.D.	Bergeron
	Wu, Kai	Aug. 02	May. 06	Ph.D.	Hochhaus
	Xu, Jian *	Aug. 05	May. 10	Ph.D.	Hughes
	Yadava, Preeti	Aug. 02	May. 06	Ph.D.	Hochhaus
Zdrojewski, Immo	Aug. 03	May. 07	Ph.D.	Derendorf	
Pharmacodynamics	Beck, Caren **	Aug. 99	Dec. 05	Ph.D.	Katovich
	Bhatia, Chinki	Aug. 04	May. 08	Ph.D.	Frazier
	Grobe, Justin **	Aug. 01	May. 06	Ph.D.	Katovich
	Landen, Melissa	Aug. 04	May. 08	Ph.D.	Keller-Wood
	Li, Zhimin	Aug. 04	May. 08	Ph.D.	Peris
	Mao, Haoyu	Aug. 04	May. 08	Ph.D.	Liu
	Qi, Yanfei *	Aug. 05	May. 09	Ph.D.	Peris
	Shenoy, Vinayak *	Aug. 05	May. 09	Ph.D.	Peris
Pharmacy Health Care Admin/ Center for Research in Pharmaceutical Care	Ali, Ayad *	Aug. 05	May. 09	M.S.	Kimberlin
	Allen, Mark *	Aug. 05	May. 09	Ph.D.	Kimberlin
	Balding, Diane	Aug. 00	Dec. 06	Ph.D.	Ried
	Ballentine, Amanda **	Aug. 02	Aug. 06	Ph.D.	Lipowski
	Chen, Chih-Ying	Aug. 04	May. 08	Ph.D.	Segal
	Douglas, Charles *	Aug. 05	May. 09	Ph.D.	Kimberlin
	Garman, Patrick	Aug. 04	May. 08	Ph.D.	Ried
	Gerhard, Tobias	Aug. 02	May. 07	Ph.D.	Winterstein
	Graham, Stephen **	Jan. 01	Dec. 05	Ph.D.	Hartzema
	Hampp, Christian	Aug. 04	May. 08	Ph.D.	Segal
	He, Jinghua *	Aug. 05	May. 09	Ph.D.	Kimberlin
	Hsu, Chienning	Aug. 04	May. 08	Ph.D.	Segal
	Hwang, Jae-Min	Aug. 03	May. 08	Ph.D.	Winterstein
	Kanjanarat, Penkarn **	Aug. 00	Aug. 05	Ph.D.	Winterstein
	Mitchell, Karen **	Aug. 03	Aug. 05	M.S.	Segal
	Mueller, Michael	Aug. 01	May. 05	Ph.D.	Kimberlin
	Murkherjee, Kumar	Aug. 04	May. 08	Ph.D.	Segal
	Nyanteh, Harry **	Aug. 02	Dec. 05	M.S.	Hartzema
	Onyenwenyi, Ahunna	Aug. 03	May. 08	Ph.D.	Segal
	Ritho, Jane *	Aug. 05	May. 09	Ph.D.	Kimberlin
Shetty, Namrata *	Aug. 05	May. 09	Ph.D.	Kimberlin	
Telfair, Tamara	Aug. 02	May. 07	Ph.D.	Hartzema	
Watcharathanakij, Sawaeng	Aug. 02	May. 07	Ph.D.	Segal	
White, Annesha (left prog.)	Aug. 03	May. 06	Ph.D.	Segal	

* new students entering a graduate program during FY 05/06

** students who graduated with an M.S. or Ph.D. during FY 05/06

Table 3: Graduate Student Demographics

Gender	Citizenship						American Minority					
	United States		Foreign									
	#	%	#	%	#	%	Black	%	Hispanic	%	Asian	%
TOTAL	89		31	34.8%	58	65.2%	4	4.5%	2	2.2%	2	2.2%
Male	45	50.6%	14	31.1%	31	68.9%	1	2.2%	0	0.0%	1	2.2%
Female	44	49.4%	17	38.6%	27	61.4%	3	6.8%	2	4.5%	1	2.3%

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

Department/Center	Graduate Students	Post-doctoral Fellows	Visiting Scholars	Exchange Students
Medicinal Chemistry	20	12	1	0
Pharmaceutics/CDD & CDIR&E	37	8	4	12
Pharmacodynamics	8	4	0	0
Pharmacy Health Care Administration/CRPC	24	5	10	4
Pharmacy Practice/CPG	No Grad. Prog.	6	1	0
COLLEGE TOTAL	89	35	16	16

CDD = Center for Drug Discovery; CDIR&E = Center for Drug Interaction Research & Education

CRPC = Center for Research in Pharmaceutical Care, CPG = Center for Pharmacogenomics

Table 5: GPA and Test Scores of Graduate Students

Class	GPA	GRE			TOEFL	TSE
		Verbal	Quant.	Total		
COLLEGE TOTAL (89)*	3.43	507	696	1203	255	47
FY 05/06 Class (19)	3.85	508	724	1232	264	52

* numbers in parenthesis denote student population

Table 6: Post-doctoral Fellows and Visiting Scholars

Department/Center	Name	Mentor	Home Country
Medicinal Chemistry	Bharti, Neelam	Bergeron	India
	Fang, Lijuan	Booth	Canada
	Juntunen, Juha-Mati	Sloan	Finland
	Liu, Yanxia	Luesch	China
	Matthew, Susan	Luesch	India
	McManis, James	Bergeron	USA
	Rouzaud, Francois	Haskell-Luevano	France
	Singh, Shailendra	Bergeron	India
	Sivendran, Sashikala	Booth	Sri Lanka
	Wang, Li-Quan	James	China
	Wilczynski, Andrzej	Haskell-Luevano	Poland
	Witek, Rachel	Haskell-Luevano	USA
	Xiang, Zhimin	Haskell-Luevano	China
	Pharmaceutics/ Center for Drug Discovery & Center for Drug Interaction Research and Education	Burkhardt, Olaf	Derendorf
Choi, Young-kook		Song	South Korea
Kiman, Kim		Derendorf	Korea
Kumar, Vipul		Derendorf	India
Lu, Yuanqing		Song	China
Madabushi, Rajanikanth		Derendorf	India
Mori, Nobuhiro		Bodor	Japan
Rao, Gururaj Ananda		Hughes	India
Talcott, Susanne		Derendorf	Germany
Wu, Jiexiang		Bodor	PR China
Wu, Whei-Mei		Bodor	Taiwan
Zhang, Bin		Song	China
Pharmacy Health Care Admin./ Center for Research in Pharmaceutical Care	Aagard, Linda	Winterstein	Denmark
	Chowwanapoonpohn, Hathaikan	Lipowski	Thailand
	Grant, William	Kauf	USA
	Julkunen, Henna	Hartzema	Finland
	Linden, Stephan	Winterstein	Germany
	Mahajan, Shibani	Kauf	India
	Mattenklotz, Anna	Winterstein	Germany
	Mueller-Spath, Maren	Ried	Germany
	Nantavitayaporn, Arapat	Lipowski	Thailand
	Pendergrass, Alan	Segal	USA
	Ratchina, Svetlana	Hartzema	Russia
	Smith, Laura	Winterstein	USA
	Snedecor, Sonya	Hartzema	USA
	Supakul, Sakon	Hartzema	Thailand
Toon, Jei-Sya	Ried	United Kingdom	

Table 6: Post-doctoral Fellows and Visiting Scholars (cont.)			
Department/Center	Name	Mentor	Home Country
Pharmacodynamics	Feng, Bihua	Keller-Wood	China
	Grobe, Justin	Katovich	USA
	von Reitzenstein, Marcela	Keller-Wood	Germany
	Zarikova, Alevtina	Peris	Russia
Pharmacy Practice/ Center for Pharmacogenomics	Anderson, Shawn	Gums	USA
	Arrendale, Justin	Taylor	USA
	Brunner, Martin	Johnson	Australia
	Cherian, Sonia	Robinson	USA
	Niu, Yuxin	Johnson	China
	Pacanowski, Michael	Johnson	USA
	Shin, Jaekyu	Johnson	South Korea

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 05/06 for each of the departments is illustrated in **Table 7**. The College received 180 completed applications. Of the 180 completed applications received by the departments, only 22 (or 12.2%) of the applicants were accepted, of which 15 students (or 68% of the potential students) will enter our graduate programs for FY 06/07.

Table 7: Departmental Graduate Student Recruitment Activity					
Department	# Completed Applications	# Applications Accepted	% Accepted	# Applicants Entered	% Entered
Medicinal Chemistry	47	8	17.0%	5	62.5%
Pharmaceutics	100	5	5.0%	3	60.0%
Pharmacodynamics	4	4	100.0%	4	100.0%
Pharmacy Health Care Administration	29	5	17.2%	3	60.0%
COLLEGE TOTAL	180	22	12.2%	15	68.2%

Exchange Students in the College of Pharmacy

Each year many exchange students visit the COP for a 3-4 month period to help them develop in their research as part of the core curriculum from their home country. This fiscal year we had 16 students with more than half of them (75%) coming from Germany (**Table 8**).

Table 8: Exchange Students

Department	Student Name	Mentor	Home Country
Pharmaceutics/ Center for Drug Discovery & Center for Drug Interaction Research and Education	Dartsch, Theresa	Derendorf	Germany
	Dizayee, Sara	Derendorf	Germany
	Futh, Matthias	Derendorf	Germany
	Kipke, Sandra	Butterweck	Germany
	Kluxen, Felix	Derendorf	Germany
	Ludwig, Doerthe	Derendorf	Germany
	Maycher-Perszynski, Jolanta	Derendorf	Germany
	Meyer, Martin	Hughes	Germany
	Ortsiefer, Andrea	Derendorf	Germany
	Seibt, Stefanie	Derendorf	Germany
	Spalthoff, Veronica	Derendorf	Germany
	Sthapit, Philos	Butterweck	Germany
	Pharmacy Health Care Admin/ Center for Research in Pharmaceutical Care	Ibechukwu, UD	Ried
Llomaki, Jenni		Hartzema	Finland
Rungreangyingyod, Lek		Segal	Thailand
Tomsen, Linda		Winterstein	Denmark

Graduate Student Graduation Activities

During this academic year the COP had sixteen students finish their graduate program and earn a Ph.D. degree and four who earned their Master's degree. All four departmental graduate specialties were represented in the graduating class. The graduates according to commencement date were:

Ph.D. in Pharmaceutical Science Degrees Conferred

AUGUST 2005 (SUMMER COMMENCEMENT)

Name: **Dr. Boman Irani**
Dissertation Title: *Long-term Voluntary Exercise and Melanocortin Ligands: Their Effects on Food-intake and Body-weight Regulation*
Faculty Mentor: Dr. Carrie Haskell-Luevano, Associate Professor
Department: Medicinal Chemistry
Previous Degree: B.S. in Pharmaceutical Sciences, Bharati Vidyapeeth College of Pharmacy, India

Dr. Irani assumed a post-doctoral research position at the University of Medicine and Dentistry of New Jersey.

Name: **Dr. Penkarn Kanjanarat**
Dissertation Title: *Impact of the 30 Baht Health Insurance Policy on Hospital Drug Utilization in Thailand*
Faculty Mentor: Dr. Almut Winterstein, Clinical Assistant Professor
Department: Pharmacy Health Care Administration
Previous Degree: B.S. in Pharmacy, Chiangmai University, Thailand; M.Sc. in Pharmacy, Mahidol University, Thailand

Dr. Kanjanarat assumed a faculty position in the College of Pharmacy at Chiangmai University in Thailand.

Name: **Dr. Scott Wasdo**
Dissertation Title: *Topical Delivery of a Model Phenolic Drug: Alkylloxycarbonyl Prodrugs of Acetaminophen*
Faculty Mentor: Dr. Kenneth Sloan, Professor
Department: Medicinal Chemistry
Previous Degree: B.S. in Chemistry, University of Florida

Dr. Wasdo assumed a post-doctoral position at the Center for Environmental Toxicology at the University of Florida under the mentorship of Dr. Steve Roberts.

DECEMBER 2005 (FALL COMMENCEMENT)

Name: **Dr. Caren Beck**
Dissertation Title: *Vascular Reactivity During Pregnancy in Rabbits*
Faculty Mentor: Dr. Michael Katovich, Professor
Department: Pharmacodynamics
Previous Degrees: B.S. in Poultry Science, University of Florida; M.S. in Animal Science, University of Florida

Dr. Beck assumed a faculty position at Flagler College, St. Augustine, FL.

Name: **Dr. Stephen D. Graham**
Dissertation Title: *Effect of Academic Detailing on COX-2 Utilization Rates*
Faculty Mentor: Dr. Abraham Hartzema, Professor and Eminent Scholar
Department: Pharmacy Health Care Administration
Previous Degree: B.S., University of Manitoba, Canada; B.S. in Pharmacy, Dalhousie University, Canada

Dr. Graham assumed a faculty position at Dalhousie University, Canada. He will also be an independent consultant in Health Outcomes.

Name: **Dr. Ke Ren**
Dissertation Title: *Effect of Alpha7 Nicotinic Receptor Activation and Overexpression in Brain and in PC12 Cells*
Faculty Mentor: Dr. Jeffrey Hughes, Associate Professor
Department: Pharmaceutics
Previous Degree: B.S. in Medicine, Zunyi Medical College, China

Dr. Ren assumed a post-doctoral position in the Department of Pharmacology, College of Medicine, University of Florida under the mentorship of Dr. Edwin Meyer.

Name: **Dr. Leah D. Stuchal**
Dissertation Title: *Phase I and Phase II Biotransformation of Methoxychlor and its Demethylated Metabolites in Channel Catfish (*Ictalurus Punctatus*) Liver and Intestine*
Faculty Mentor: Dr. Margaret James, Professor
Department: Medicinal Chemistry
Previous Degrees: B.S., University of Miami

Dr. Stuchal assumed a post-doctoral position with Dr. Stephen Roberts, Center for Environmental and Human Toxicology, University of Florida.

MAY 2006 (SPRING COMMENCEMENT)

Name: **Dr. Justin Grobe**
Dissertation Title: *The Role of Angiotensin-(1-7) in Cardiovascular Physiology*
Faculty Mentor: Dr. Michael Katovich, Professor
Department: Pharmacodynamics
Previous Degrees: B.A. in Chemistry; B.S. in Biology; Hope College, Holland, MI

Dr. Grobe assumed a post-doctoral position in the Department of Pharmacodynamics, College of Pharmacy, University of Florida.

Name: **Dr. Vien Nguyen**
Dissertation Title: *Discovery of Agents that Antagonize the CNS Effects of Thyrotropin-releasing Hormone*
Faculty Mentor: Dr. Laszlo Prokai, Professor
Department: Pharmaceutics
Previous Degrees: B.S. in Chemical Engineering, University of South Florida

Dr. Nguyen assumed a post-doctoral position in the Department of Molecular Biology and Immunology, University of North Texas.

Name: **Dr. Aleksandar Todorovic**
Dissertation Title: *Peptide, Peptidomimetic and Small Molecule-based Ligands Targeting Melanocortin Receptor System*
Faculty Mentor: Dr. Carrie Haskell-Luevano, Professor
Department: Medicinal Chemistry
Previous Degrees: PharmD, University of Belgrade, Yugoslavia

Dr. Todorovic assumed a post-doctoral position at the National Lawrence Berkeley Laboratory, University of California, Berkeley, CA.

AUGUST 2006 (SUMMER COMMENCEMENT)

Name: **Dr. Amanda Ballentine**
Dissertation Title: *Measuring Organizational Sponsorship Credibility: The Application of Source Credibility Theory in Determining the Most Effective Advocacy Advertisement Sponsor*
Faculty Mentor: Dr. Earlene Lipowski, Associate Professor
Department: Pharmacy Health Care Administration
Previous Degree: PharmD, University of Texas

Dr. Ballentine is currently working as a pharmacist at Wal-Mart but is looking for employment with the FDA or other government organization.

Name: **Dr. Aaron Hirko**
Dissertation Title: *Peripheral Expression of Plasma Gelsolin as a Treatment for Alzheimer's Disease*
Faculty Mentor: Dr. Jeffrey Hughes, Associate Professor
Department: Pharmaceutics
Previous Degree: B.D. in Human Nutrition, University of Florida

Dr. Hirko assumed a post-doctoral position with Dr. Jeffrey Hughes in the Department of Pharmaceutics, College of Pharmacy, University of Florida. Starting October, 2007 Dr. Hirko will assume a post-doctoral position at the University of Pittsburgh.

Name: **Dr. Susruta Majumdar**
Dissertation Title: *Prodrug Strategies Aimed at Improving Topical Delivery of Drugs Using the N-alkyl-N-alkyloxy-carbonylaminoethyl (NANAOCAM) Promoeity*
Faculty Mentor: Dr. Kenneth Sloan, Professor
Department: Medicinal Chemistry
Previous Degree: M.S. in Chemistry, University of Delhi, India

Dr. Majumdar assumed a post-doctoral position at the Sloan-Kettering Cancer Center at Columbia University, New York City, NY.

Name: **Dr. James Sacco**
Dissertation Title: *Phase II Biotransformation of Xenobiotics in Polar Bears (*Ursus Maritimus*) and Channel Catfish (*Ictalurus Punctatus*)*
Faculty Mentor: Dr. Margaret James, Professor
Department: Medicinal Chemistry
Previous Degree: M.S. in Philosophy, University of Malta

Dr. Sacco assumed a post-doctoral position at the School of Veterinary Medicine, University of Wisconsin-Madison.

Name: **Dr. Joshua Thomas**
Dissertation Title: *Improving the Topical Delivery of Phenol-containing Drugs: An Alkylcarbonyloxymethyl and Alkyloxycarbonyloxymethyl Prodrug Approach*
Faculty Mentor: Dr. Kenneth Sloan, Professor
Department: Medicinal Chemistry
Previous Degree: B.S. in Chemistry, Wingate University, Wingate, NC

Dr. Thomas assumed a post-doctoral position at the National Cancer Institute, National Institute of Health, Frederick, MD.

Name: **Dr. Xiaoli Wang**
Dissertation Title: *Synthesis and in vitro Evaluation of Cytochrome P450 Isoform-selective Substrate Analogs as Exhaled-breath Markers of Enzyme Competency*
Faculty Mentor: Dr. Laszlo Prokai, Professor
Department: Medicinal Chemistry
Previous Degree: M.S. in Pharmaceutical Sciences, Xi'an Jiaotong University, China

Dr. Wang's assumed a position as a Clinical Pharmacokineticist at PRA International in Lenexa, KS.

Master's in Pharmaceutical Science Degrees Conferred

AUGUST 2005 (SUMMER COMMENCEMENT)

Name: **Ms. Karen Mitchell**
Faculty Mentor: Dr. Earlene Lipowski, Associate Professor
Department: Pharmacy Health Care Administration
Previous Degree: B.S., St. Francis College, NY

Ms. Mitchell assumed a position as a pharmaceutical analyst at Mercer Consulting in New York City, NY.

DECEMBER 2005 (FALL COMMENCEMENT)

Name: **Dr. Harry Nyanteh**
Faculty Mentor: Dr. Richard Segal, Professor
Department: Pharmacy Health Care Administration
Previous Degree: M.S. in Public Health, University of South Florida; Doctor of Medicine, University of Pecs, Hungary

Dr. Nyanteh assumed a position as a clinical trials coordinator.

Name: **Dr. Anzeela Schentrup**
Thesis Title: *Structure-function Relationships of an Agouti-related Protein-derived Decapeptide at the Murine Melanocortin Receptors*
Faculty Mentor: Dr. Carrie Haskell-Luevano, Associate Professor
Department: Medicinal Chemistry
Previous Degree: B.A. in History; Doctor of Pharmacy, University of Florida

Dr. Schentrup is currently enrolled in the joint Pharmacy Practice/Pharmaceutics Ph.D. Program in the College of Pharmacy, University of Florida.

Name: **Mr. Shuo Yang**
Faculty Mentor: Dr. Stephen Schulman, Professor
Department: Medicinal Chemistry
Previous Degree: B.S., Peking University, China

Mr. Yang enrolled in the Ph.D. program in the Department of Chemistry, University of Florida.

Forensic Sciences Master's Degrees Conferred

This year in the Forensics programs there were 179 students enrolled in one of the two Master's programs and 66 students enrolled in one of the three certificate programs. Within the Master's programs there was a total of 67 students who graduated; 15 (22.4%) from the Drug Chemistry concentration and 52 (77.6%) from the DNA and Serology concentration. Within the certificate programs there was a total of 71 students who received their certificate; 24 (33.8%) from the Drug Chemistry concentration, 46 (64.8%) from the DNA and Serology concentration; and 1 (.01%) from the new Death Investigation concentration. Listed below are those students who have graduated with their Master's in the COP concentrations.

Master's Graduates in the Forensic Sciences Program		
Program	Name	
Summer 2005		
DNA and Serology	Clarkson, Amoreena	McArdle, Michelle
	Hilbig, Robert	Spurgeon, Sabrina
	MacDonald, Courtney	
Drug Chemistry	Khey, David	

Master's Graduates in the Forensic Sciences Program (cont.)		
Program	Name	
Fall 2005		
DNA and Serology	Buttermore, Tina Marie	Nolan, Christy
	Crawford, Melissa	Peoples, Raymond
	Cross, Katherine	Pogge, Amy
	Enfinger, Constance	Sears, Erinn
	Gongora, Gustavo	Selmanovic', Arijana
	Jennings, Matthew	Tulley, Therese
	Milos, Ana	Westcott, L. SukHan
	Muniec, David	
Drug Chemistry	Khey, David	Kiefke, Allan
Spring 2006		
DNA and Serology	Brinkos, Christine	Klama, Raymond
	Burch (Miars), Amy	Nasir, Huma
	Flanagan, Nadine	Strickman, Naomi
	Frank-Slotwinski, Rupal	Tanzillo-Swartz, Angela
	Franklin, Tori	Van Camp, Lynn
	Hastings, Daniel	
Drug Chemistry	Garoh, Heather	Mitchell, Mark
	Koval, Michael	Smith, Angela
	Lautner, Carisa	Ward, Michael
Summer 2006		
DNA and Serology	Adcock, Sean	Mizen, Robyn
	Ashley, David	Myers, Jelena
	Clemens, Anna	Palmer, Jenifer
	Czczuga, Joshua	Petrino, Stephana
	Fowler, Kathryn	Rondez, Elaine
	Fry, Valthea	Rosmarion-Tabert, Kerstin
	Gutierrez, Cynthia	Simons, Misty
	Harvey, Lindsay	Wilson, Robyn
	Hummel, Gregory	Wong, Raymond
	Johnson, Elizabeth	Wood, Rachel
	Jones, Breanne	
Drug Chemistry	Blow, Valerie	Lin, Hui
	Cassidy, Summer	Munden, Regina
	Ford, Lindsay	Sweet, Amanda

Graduate Student Funding and Awards

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

The COP carried the major load of the funding of graduate student stipends by supporting forty-two graduate student stipends; fifteen graduate students received support from extramural research grants; two graduate students received funding from their home government; and ten graduate students funded their own graduate education this year. Six graduate students received Grinter Awards as a supplement to their state funding. Graduate stipends ranged from \$12,273 to \$22,812 with an average overall stipend of \$16,228 for all graduate students.

Four graduate student fellowship proposals totaling \$104,047 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 – Florida Affiliate, National Institute of Health (NIH), PhRMA Foundation, Perry Foote Small Grants Award, Rho Chi Society-Eli Lilly and Company, and Pfizer.

Alumni Scholarships

Beginning Fall Semester 1999, the University of Florida offered *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 (\$20,000/year) plus all tuition remuneration. To ensure that Alumni Fellows receive every opportunity to succeed, the *Alumni Scholarships* provide a full four years of support for qualifying students. The College of Pharmacy received five additional *Alumni Scholarships*. The recipients of the *Alumni Scholarships* are:

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	Pharmacy Health Care Administration	FY 05/06

Ms. Chin-Ying Chen	Pharmacy Health Care Administration	FY 04/05
Mr. Kumar Mukherjee	Pharmacy Health Care Administration	FY 04/05
Ms. Nasha Wang	Medicinal Chemistry	FY 04/05

Mr. Jae-Min Hwang	Pharmacy Health Care Administration	FY 03/04
Ms. Ahunna Onyenwenyi	Pharmacy Health Care Administration	FY 03/04
Ms. Elanor Pinto	Pharmaceutics	FY 03/04
Mr. Zia Tayab	Pharmaceutics	FY 03/04
Ms. Annesha White	Pharmacy Health Care Administration	FY 03/04
Ms. Krista Wilson	Medicinal Chemistry	FY 03/04

Ms. Claudia Battello	Pharmacodynamics	FY 02/03
Mr. Tobias Gerhard	Pharmacy Health Care Administration	FY 02/03
Ms. Kristen Merritt	Medicinal Chemistry	FY 02/03
Ms. Mei Tang	Pharmaceutics	FY 02/03

Named Presidential Fellowships

Each year the Graduate School awards fellowships named in honor of former University of Florida presidents. Fellowships are awarded to students pursuing terminal degrees (Ph.D., Ed.D., or M.F.A.) and represent a four-year commitment to the student. Within the College of Pharmacy Named Presidential Awards are offered every other year. Stipends are \$17,000 for 12 months, which is accompanied by a tuition waiver. The recipients of the *Named Presidential Fellowship* are:

Ms. Elizabeth Potocka	Pharmaceutics	FY 04/05
Mr. Harry Nyanteh	Pharmacy Health Care Administration	FY 02/03

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:

Mr. Whocely Castro	Pharmaceutics	FY 02/03
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Lippman Awards

To honor the commitment of the **Honorable Fred Lippman** for his efforts in getting state support for the College of Pharmacy, the College instituted the *Lippman Award* in 1991. The *Lippman 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 *Lippman Award* is:

Mr. Wouter Driessen	Pharmaceutics	FY 04/05
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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 9**. Overall we have had a 62% acceptance of *Grinter Awards* by prospective students. Sixty-six 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 3.55 with a GRE of 1242 and a TOEFL of 265.

Table 9: Statistical Summary of Grinter Program – 1988 to Present			
Statistic	Overall	%	05/06 Class
Total number offered	100		3
Total number accepted	62	62.0%	3
Total number graduated	41	66.1%	
Total number still enrolled: past & present	14	22.6%	
Number of active awardees	6	9.7%	3
Grade Point Average (GPA)	3.55		**
Graduate Record Exam -GRE (Verbal + Quant.)	1242		1267
Test of English as a Foreign Language (TOEFL)	265		277

** GPA's not calculated on foreign students

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

Mr. Jason Kwan	Medicinal Chemistry	FY 05/06
Ms. Gina Patel	Pharmaceutics	FY 05/06
Ms. Jane Ritho	Pharmacy Health Care Administration	FY 05/06

Mr. Christian Hampp	Pharmacy Health Care Administration	FY 04/05
Ms. Elizabeth Potocka	Pharmaceutics	FY 04/05
Ms. Zhimin Li	Pharmacodynamics	FY 04/05

Mr. Neilanjanjan Chatterjee	Pharmacy Health Care Administration	FY 03/04
Ms. Karen Mitchell	Pharmacy Health Care Administration	FY 03/04

19th 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 for Graduate Students

Mr. Stephan Schmidt, a graduate student in the Department of Pharmaceutics under the mentorship of Dr. Hartmut Derendorf, was awarded a \$500 travel grant to present his poster at the ECCMID Meeting in Nice, France in April, 2006.

Mr. Wouter Driessen, a graduate student in the Department of Pharmaceutics under the mentorship of Dr. Sean Sullivan, was named the student representative on the American Association of Pharmaceutical Scientists (AAPS) – Student/Post-doc Outreach and Development (SPOD) Committee. This appointment started in January 2006 and is for two years.

Ms. Nathalie Toussaint, a graduate student in the Department of Pharmaceutics under the mentorship of Dr. Sean Sullivan, was named the graduate student liaison to the BIOTEC–Executive Committee of the American Association of Pharmaceutical Scientists (AAPS). Her appointment started in December 2005, and will continue until she graduates.

Ms. Leah Villegas, a graduate student in the Department of Pharmaceutics under the mentorship of Dr. Sean Sullivan, was selected to participate in the 2006 American Association of Pharmaceutical Scientists (AAPS) Graduate Student Symposium 2006 AAPS National Biotechnology Conference in Boston, MA in June 2006 for her presentation entitled “*Development of Non-viral Gene Therapy Targeting the Insulin-like Growth Factor (IGF) System for Treatment of Brain Tumors*”. Leah was one of only three graduate students selected from graduate students competing throughout the United States. In addition to her participation in the symposium she also received a cash award of \$250, a complimentary National Biotechnology Conference registration and reimbursement of travel expenses.

International Student Academic Awards

At the International Student Academic Awards Ceremony held April 27, 2006, in the Reitz Union Auditorium, **three** of the College of Pharmacy’s international graduate students received certificate awards for outstanding academic accomplishment. The recipients of the *International Student Awards* are:

Mr. Whocely Victor de Castro	Pharmaceutics
Mr. Christian Hampp	Pharmacy Health Care Administration
Mr. James Sacco	Medicinal Chemistry

Graduate Minority Activities and Awards

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

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

Dr. Carole Kimberlin, Professor and Graduate Coordinator, Department of Pharmacy Health Care Administration (PHCA), held a joint seminar for the graduate students of PHCA and the Master's students at FAMU. After the seminar she spoke with students from FAMU who were interested in applying to our Ph.D. program.

The Department of Pharmaceutics has maintained an official affiliation with the Pharmaceutics Department at FAMU College of Pharmacy. Dr. Hartmut Derendorf, Professor and Chair of Pharmaceutics, serves on the National Advisory Board for the Research Centers in Minority Institutions and Dr. Jeffrey Hughes serves on the Minority Biomedical Research Support External Scientific Advisory Board; therefore, they visit FAMU routinely to talk about pharmacy graduate programs at UF.

Meetings and Conferences

The University of Florida's American Association of Pharmaceutical Scientists (AAPS) Student Chapter hosted the inaugural South East Regional Interdisciplinary Symposium (SERIS) on May 19-21, 2006, held at the University of Florida. The UF-AAPS Student chapter broke new ground since this was the first southeastern forum held with students, academic professors and industrial scientists from throughout the United States in attendance. The SERIS symposium fostered professional and scientific interaction by spotlighting graduate students and post-doctorates, giving students the opportunity to interact and learn from each other as well as with representatives from pharmaceutical industries. Students shared their work in the fields of pharmaceutics, pharmacodynamics, medicinal chemistry, pharmacogenomics, pharmacy, biomedical engineering, material science, organic chemistry, and medicine.

SERIS was established in an effort to form a bridge between the student chapters and get involved with other departments and disciplines within the University of Florida and neighboring universities in the southeastern United States. Over 100 students from 20 different universities, organizations, and companies from throughout the United States participated in the three-day symposium. The symposium was filled with career development, scientific and social activities:

- Keynote presentation by the 2006 AAPS President-Elect Dr. Gene Fiese
- Roundtable discussion led by FDA representative Dr. Lawrence Lesko, academia representative Dr. Michael Schwartz, and industry representative Dr. Robert Bell
- 10 educational sessions lead by academic and industrial guest speakers
- 16 student podium presentations
- 35 student poster presentations

Through the generous support from our sponsors: **Wyeth, AAPS, Boehringer Ingelheim, College of Pharmacy, AstraZeneca, Lily and Drug Biotechnology Development**, knowledgeable judges, invited speakers and the faculty members of the College of Pharmacy SERIS was a huge success. The founders and organizers of SERIS are all College of Pharmacy graduate students: **Elanor Pinto** and **Leah Villegas**, co-chairs; **Wouter Driessen**, Treasurer; **Nathalie Toussaint** and **Stephen Phipps**.

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 13th this past year out of 60 schools with research programs (**Table 10**). These placements are based solely on fiscal year NIH funding (October to September of a given year).

Table 10: AACCP Statistics for NIH Funding					
NIH Fiscal Year	NIH Support	Rank	FTE Ph.D.'s	NIH Support/ FTE- Ph.D.	Rank
2001	\$3,749,322	16	33	\$113,616	20
2002	\$4,097,824	16	30	\$124,103	21
2003	\$6,064,002	15	27	\$224,593	12
2004	\$5,599,586	13	34	\$164,691	21
2005	\$5,999,517	13	35	\$171,415	18

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 134 extramural grant or contract applications from the five Departments and our Administrative Office (**Table 11**) for a total of \$59,389,604 in **new** grant dollars. This is a 53.3% decrease in total dollars requested when compared to FY 04/05 (see **Table 12**). The majority (76.9%) of new proposals within the COP are proposals in which the Principal Investigator (PI) is a faculty member within the COP (**Tables 11 and 12**). Research faculty members are also encouraged to collaborate with other units within the University. Twenty-three percent of grants submitted were originated outside of the College of Pharmacy.

Table 13 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 \$8,972,551 with 103 individual awards coming into the College of Pharmacy. This represents a 30.5% increase in total research funding dollars and a 28.8% increase in number of awards from FY 04/05.

Departmental comparisons show that Pharmacy Practice brought in the majority of research dollars within the COP (36.1%) and also showed the largest improvement in total dollars brought into the College for FY 05/06 over FY 04/05 at 140.4% (1,348,430 versus \$3,241,370). Pharmaceutics and Pharmacodynamics both showed an increase of 39.4% and 14.5% respectively, while Medicinal Chemistry and Pharmacy Health Care Administration experienced a decrease in total funding at 8.7% and 52.1% respectively.

TOTAL EXTRAMURAL FUNDING to the COP is illustrated in **Table 14**. Total extramural support includes not only **RESEARCH** funds (also found in **Table 13**) but also those **ADMINISTRATIVE** funds that include professional service contract fees to support the clinical enterprises at the Veteran's Administration Hospital, and Shands-Jacksonville. These contracts make up 4.4% of total extramural revenues in the College. This year **ADMINISTRATIVE** funds showed a 13.7% decrease from the previous academic year.

The combination of a 30.5% increase in **RESEARCH** funds and a 7.4% decrease in **ADMINISTRATIVE** funds provided the College of Pharmacy with a 27.7% increase overall in FY 05/06 from FY 04/05 when **Total Extramural Funding** is considered (**Tables 14 and 15**).

Table 11: Proposal Processing Summary			
Department	Inside the College	Outside the College	Total
College Total			
# Proposals	103	31	134
Total Amount	\$35,013,874	\$24,375,730	\$59,389,604
Administration			
# Proposals	0	0	0
Total Amount	\$0	\$0	\$0
Medicinal Chemistry			
# Proposals	32	5	37
Total Amount	\$9,113,671	\$1,576,209	\$10,689,880
Pharmaceutics			
# Proposals	37	13	50
Total Amount	\$14,300,155	\$7,475,013	\$21,775,168
Pharmacodynamics			
# Proposals	15	3	18
Total Amount	\$4,007,136	\$3,172,458	\$7,179,594
Pharmacy Health Care Admin.			
# Proposals	2	5	7
Total Amount	\$448,654	\$9,335,193	\$9,783,847
Pharmacy Practice			
# Proposals	17	5	22
Total Amount	\$7,144,258	\$2,816,857	\$9,961,115

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

Table 12: Proposal Processing Comparison			
Fiscal Year	Inside the College	Outside the College	Total
FY 04/05			
# proposals	94	30	124
Total Amount	\$82,439,809	\$44,614,436	\$127,054,245
FY 05/06			
# proposals	103	31	134
Total Amount	\$35,013,874	\$24,375,730	\$59,389,604

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

Table 13: Extramural Research Dollars - FY 01/02 to FY 05/06

Department	01/02	02/03	03/04	04/05	05/06	01 – 05	% of total
COLLEGE TOTAL	\$6,022,123	\$6,488,151	\$7,604,542	\$6,873,248	\$8,972,551	\$7,192,123	100.00%
IDC	\$1,150,387	\$1,347,223	\$1,633,280	\$1,413,595	\$1,865,227	\$1,481,942	100.00%
# grants	111	120	100	80	103	102.8	
%IDC	23.60%	26.21%	27.35%	25.89%	26.2%	25.72%	
Medicinal Chemistry	\$2,630,607	\$2,744,228	\$3,323,351	\$2,650,154	\$2,419,257	\$2,753,519	38.29%
IDC	\$596,236	\$619,296	\$731,661	\$658,113	\$554,326	\$631,926	42.64%
# grants	18	20	23	13	23	19.4	
%IDC	29.30%	29.14%	28.20%	28.20%	29.7%	28.88%	
Pharmaceutics	\$1,356,955	\$1,097,069	\$1,388,138	\$1,099,022	\$1,532,052	\$1,294,647	18.00%
IDC	\$165,688	\$232,563	\$235,755	\$81,687	\$329,796	\$209,098	14.11%
# grants	33	31	31	25	28	29.6	
%IDC	13.90%	26.90%	20.50%	20.50%	27.4%	20.43%	
Pharmacodynamics	\$587,602	\$768,811	\$812,823	\$1,394,709	\$1,597,340	\$1,032,257	14.35%
IDC	\$146,552	\$225,750	\$233,559	\$361,146	\$466,000	\$286,601	19.34%
# grants	10	10	8	15	17	12	
%IDC	33.20%	41.57%	40.30%	34.90%	41.2%	38.36%	
Pharmacy Health Care Admin.	\$128,641	\$95,940	\$100,000	\$380,933	\$182,532	\$177,609	2.47%
IDC	\$2,448	\$10,248	\$0	\$34,393	\$18,282	\$13,074	0.88%
# grants	13	12	7	11	8	10.2	
%IDC	1.90%	11.96%	0.00%	11.96%	11.1%	4.62%	
Pharmacy Practice	\$1,318,318	\$1,782,103	\$1,980,230	\$1,348,430	\$3,241,370	\$1,934,090	26.89%
IDC	\$239,463	\$259,366	\$432,305	\$278,258	\$496,822	\$341,243	23.03%
# grants	37	47	31	16	27.0	31.6	
%IDC	22.20%	17.03%	27.90%	27.90%	18.1%	22.38%	

IDC = indirect costs

Table 14: Total Extramural Support - FY 01/02 to FY 05/06						
Dept.	01/02	02/03	03/04	04/05	05/06	Average 01 – 05
COLLEGE TOTAL	\$6,996,435	\$8,028,063	\$8,653,866	\$7,352,272	\$9,386,002	\$8,083,328
IDC	\$1,154,932	\$1,370,155	\$1,634,572	\$1,413,595	\$1,865,227	\$1,487,696
# grants	120	128	109	86	106	109.8
%IDC	19.80%	20.58%	23.29%	19.23%	24.80%	21.22%
RESEARCH	\$6,022,123	\$6,488,151	\$7,604,542	\$6,873,248	\$8,972,551	\$7,192,123
IDC	\$1,150,387	\$1,347,233	\$1,663,279	\$1,413,595	\$1,865,227	\$1,487,944
# grants	111	120	100	80	103	102.8
%IDC	23.60%	26.21%	28.00%	20.57%	26.20%	24.92%
ADMINISTRATION	\$944,312	\$1,539,912	\$1,049,324	\$479,024	\$413,451	\$885,205
IDC	\$4,545	\$22,932	\$1,292	\$0	\$0	\$5,754
# grants	9	8	9	6	3	7.0
%IDC	0.50%	1.51%	0.10%	0.00%	0.00%	0.42%

IDC= indirect costs

Outlined below in **Table 15** 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 47.1% increase this year from FY 04/05. State dollars were decreased by 45.3%; whereas both Corporations and Companies and Foundation and Society monies remained relatively stable from FY 04/05. This year the College showed a 99.9% drop in funding within the “Other” funding category. 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 15: Comparison by Sponsor				
Sponsor Category	FY 04/05		FY 05/06	
	# of Awards	Total Dollars	# of Awards	Total Dollars
Federal Agencies	33	\$4,830,239	52	\$7,105,795
Florida State Agencies	4	\$235,380	1	\$128,800
Corporations and Companies	32	\$1,357,322	36	\$1,313,555
Foundations & Societies	15	\$878,980	16	\$837,823
Other	2	\$50,351	1	\$29
Total Comparison	86	\$7,352,272	106	\$9,386,002

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 16-20**. In **Appendix B**: a complete listing of all extramural support by Department and Faculty members can be found.

Table 16: Federal Agencies Comparison						
Sponsor	FY 04/05			FY 05/06		
	Count	Total	IDC	Count	Total	IDC
NIH	25	\$4,250,915	\$1,146,289	49	\$7,024,265	\$1,702,878
U.S. Dept. of Agriculture	1	\$321,318	\$0	1	\$31,000	\$0
U.S. Dept. of Veteran Affairs	7	\$258,005	\$0	2	\$50,530	\$0
Total Federal Agencies	33	\$4,830,238	\$1,146,289	52	\$7,105,795	\$1,702,878

IDC = indirect costs

Table 17: State Agencies Comparison						
Sponsor	FY 04/05			FY 05/06		
	Count	Total	IDC	Count	Total	IDC
Agency for Health Care Admin.	1	\$120,629	\$5,744			
Dept. of Children & Families	1	\$14,751	\$0			
Dept. of Citrus	2	\$100,000	\$4,762			
Dept. of Health				1	\$128,800	\$0
Total Florida State Agencies	4	\$235,380	\$10,506	1	\$128,800	\$0

IDC = indirect costs

Table 18: Corporations and Companies Comparison						
Sponsor	FY 04/05			FY 05/06		
	Count	Total	IDC	Count	Total	IDC
Abbott Laboratories	1	\$23,912	\$4,782	1	\$34,160	\$6,832
AstraZeneca				1	\$19,945	\$1,813
Bayer AG	1	\$28,056	\$4,676			
Denali Biotechnologies				1	\$625	\$125
Eon Laboratories	9	\$87,083	\$7,917	2	\$15,833	\$1,439
Finzelberg GMBH & Company KG				1	\$14,040	\$1,276
Geni Herbs				1	\$15,438	\$3,088
Geltex Pharmaceuticals Corporation	3	\$656,250	\$131,250			
Genzyme Corporation				1	\$200,000	\$0
Glaxo Smith Kline, Inc.	5	\$101,738	\$20,348	7	\$207,178	\$24,665
Glycadia				1	\$20,160	\$4,032
Golin-Harris International, Inc.				1	\$5,000	\$0
IVAX Corporation	2	\$134,550	\$12,232	4	\$132,200	\$12,018
Johnson & Johnson				1	\$163,125	\$32,625
MAP Pharmaceuticals	1	\$27,715	\$5,543			

Table 18: Corporations and Companies Comparison (cont.)

Sponsor	FY 04/05			FY 05/06		
	Count	Total	IDC	Count	Total	IDC
Max Zeller Sohne				1	\$10,179	\$2,036
Merck & Company, Inc.				1	\$50,000	\$0
Novartis - United States	1	\$36,174	\$7,235	3	\$105,560	\$21,112
Noven Pharmaceuticals				4	\$60,321	\$12,164
Pascoe GMBH				1	\$25,785	\$5,157
Pfizer, Inc.	3	\$168,831	\$13,766	2	\$165,256	\$0
Pharma-Forschung, Inc.	1	\$10,000	\$2,000			
Sankyo Company, Ltd.						
Sanofi-Synthelabo Research U.S.	1	\$4,500	\$0			
Scios Nova, Inc.	1	\$22,312	\$4,462			
Sepracor, Inc.						
Solvay Pharmaceuticals	1	\$15,200	\$3,040			
Tokiwa Phytochemical Company	1	\$30,000	\$6,000	1	\$50,000	\$10,000
United Therapeutics Corporation	1	\$11,000	\$2,200	1	\$18,250	\$3,650
West Pharmaceutical Services						
Total Corporations & Companies	32	\$1,357,321	\$225,451	36	\$1,313,055	\$142,032

IDC = indirect costs

Table 19: Foundations & Societies Comparison

Sponsor	FY 04/05			FY 05/06		
	Count	Total	IDC	Count	Total	IDC
Am. Association of Pharmaceutical Sci.	1	\$500	\$0			
Am. Cancer Society				1	\$20,000	\$0
Am. Colleges of Clinical Pharmacy	1	\$20,000	\$0			
Am. Diabetes Association				1	\$100,000	\$13,043
Am. Foundation for Pharm. Ed.	3	\$11,000	\$0			
Am. Health Assistance Foundation	1	\$90,000	\$0			
Am. Heart Association - FL	2	\$39,000	\$0	9	\$308,402	\$7,273
Doctor's Memorial Hospital	1	\$65,383	\$13,137			
Juvenile Diabetes Foundation	1	\$150,000	\$13,636			
National Kidney Foundation of Florida	1	\$20,000	\$0			
Shands Teaching Hospital	1	\$305,208	\$0	2	\$363,921	\$0
Suwannee River Area AHEC	1	\$109,000	\$0			
UF Foundation				3	\$45,500	\$0
UF Research Foundation	2	\$68,889	\$0			
Total Foundations & Societies	15	\$878,980	\$26,773	16	\$837,823	\$20,316

IDC = indirect costs

Table 20: Other Comparison

Sponsor	FY 04/05			FY 05/06		
	Count	Total	IDC	Count	Total	IDC
Miscellaneous Donors				1	\$29	\$0
Nottingham City Hospital	2	\$50,351	\$4,577			
Total Other	2	\$50,351	\$4,577	1	\$29	\$0

IDC = indirect costs

Licensing and Royalty Income

Through licensing agreements and the sale of stock the College of Pharmacy generated a total of \$245,667 in revenues during FY 05/06. These monies were distributed to the College as outlined in the UF IP distribution policy.

Graduate Student Research Activities

YanJun Li and **Jian Xu**, graduate students in the Department of Pharmaceutics, carried out a summer research internships under the direction of Dr. Mark Stroh and Dr. Julie Stone at **Novartis Pharmaceutical Corporation**. Ms. Li and Mr. Xu were involved in several research projects, such as the development of a model(s) for target system and a Novartis drug based on literature information and previous drug reports in Novartis, compiled a data set for input into a pharmacokinetic/pharmacodynamic (PK/PD) model, compiled PK/PD data sets for several protocols, and developed a PK/PD model for the compound.

Maximilian Lobmeyer, a graduate student in the Department of Pharmacy Practice working with Dr. Julie Johnson in the Center for Pharmacogenomics, received a two-year, \$43,540 award from the **American Heart Association (AHA)**. Mr. Lobmeyer's project is entitled "*Genetic Variation of Beta-adrenergic Receptor Kinase I: Definition, Functional Consequences, Clinical Implication*".

Elanor Pinto, a graduate student in the Department of Pharmaceutics, carried out a summer research internship under the direction of Dr. Xiaohui Mei at Boehringer Ingelheim in Ridgefield, CT. Ms. Pinto was involved in a project that pertained to the physical characterization of melt granules.

Seth Reini, a graduate student in the IDP Program working with Dr. Maureen Keller-Wood in the Department of Pharmacodynamics, received a two-year, \$43,540 award from the **American Heart Association (AHA)**. Mr. Reini's project is entitled "*Mechanism(s) by which Cortisol-induced Enlargement of Fetal Sheep Hearts Occurs*".

Anne Schentrup, a graduate student in the Department of Pharmacy Practice working with Dr. Julie Johnson in the Center for Pharmacogenomics, received a two-year, \$43,540 award from the **American Heart Association (AHA)**. Dr. Schentrup's project is entitled "*Role of the Arachidonate 5-lipoxygenase Pathway in Coronary Heart Disease*". Dr. Schentrup also received a one year, \$6,000 award from the Pre-doctoral Graduate Fellowship in the Pharmaceutical Sciences from the **American Foundation for Pharmaceutical Education (AFPE)**.

Kai Wu, a graduate student in the Department of Pharmaceutics, carried out a summer research internship under the direction of Dr. Staffan Edsbacker at **AstraZeneca** in Lund, Sweden. Mr. Wu's research project was to compare the tissue binding of inhaled budesonide and ciclesonide's active metabolite.

Professional Student Research Activities

As the understanding of the development of new pharmaceutical agents and streamlining the drug use process is an integral part of a pharmacy student's education, the College of Pharmacy offers a series of "**Problems In Pharmacy**" courses that expose students to various aspects of the research process. Each department in the College

offers a “*Problems In Pharmacy*” course that is designed to specifically target their individual research areas. In addition to the “*Problems In Pharmacy*” courses, undergraduate 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 3 professional students secure extramural funds from two different funding agencies and are listed below:

Fay Chan, a professional student working with Dr. Mark Segal in the Department of Nephrology, received a one year, \$3,600 award from the **American Heart Association (AHA)**. Ms. Chan’s project is entitled “*Cardiovascular Risk in Systemic Lupus*”.

Michelle Martone, a professional student working with Dr. Issam Zineh in the Department of Pharmacy Practice, received a one year, \$3,600 award from the **American Heart Association/American Stroke Association (AHA/ASA)**. Ms. Martone’s research project is entitled “*Anti-inflammatory Effects of Vaccinium Berry Extract on Human Endothelial Cells*”.

Gregory Welder, a professional student working with Dr. Issam Zineh in the Department of Pharmacy Practice, received two separate awards, each award was for one year and \$3,600. Mr. Welder’s first award was from the **American Heart Association/American Stroke Association (AHA/ASA)** for his project entitled “*Atorvastatin Effects of Circulating and Leukocyte-Elaborated Eotaxin and I-TAC Concentrations*”. His second award was from the **American Heart Association (AHA)** for his project entitled “*Immunomodulation of Human Endothelial Cells by Vaccinium Berry Extract of Astaxanthin*”.

NIH Short-term Research Training Program

Over the past seven years the UF College of Pharmacy has utilized the NIH Short-term Research Training Program, offered through the College of Medicine, to provide motivated pharmacy students a high quality 10-week summer research experience. The goal of this program is to guide the students in the construction of research protocols, in state-of-the-art biomedical techniques, and in the organization, critical evaluation, and presentation of their data at local and/or national scientific meetings. This program is also a mechanism to stimulate an interest in research and lead pharmacy students to consider possible careers in academic pharmacy.

This year, first and second year pharmacy students were introduced to this program through in-class formal presentations, e-mail messages and individual or group office informational sessions. Basic, clinical, epidemiological, ethical, and educational research projects were all considered appropriate as long as they were hypothesis-driven endeavors. Successful students were selected based on their academic record and letter of intent, faculty mentor commitment and the scientific merit of the research proposal. A six-member committee comprised of basic science and clinical faculty evaluated the student applications. Each student received \$4,327 for program support.

The ten students who received funding, their summer research mentor and their project title are listed below:

Claire Chan is working with Dr. Veronika Butterweck, Assistant Professor in the Department of Pharmaceutics, on her project entitled “*In vitro Studies to Determine Whether Apocynum Venetum is Able to Cross the Small Intestine*”.

Daniel Gonzalez is working with Dr. Julie Johnson, Professor in the Department of Pharmacy Practice, on his project entitled “*Role of KCNJ11 Variation in a Cohort of Patients from INVEST: Analysis of the Incidence of type 2 Diabetes*”.

Jonathan Grey is working with Dr. Taimour Langae, Research Assistant Professor in the Department of Pharmacy Practice, on his project entitled “*Biotransformation of Fluticasone by CYP3A5 Enzyme, in vitro Metabolic Assays*”.

Jason Karnes is working with Dr. Reginald Frye, Associate Professor in the Department of Pharmacy Practice, on his project entitled “*Association of Cytochrome P450 3A5 Genetic Polymorphisms with Contribution of Cytochrome P450 3A5 to Clopidogrel Metabolism in Human Lower Tissue Samples*”.

Faryda Krynitckaya is working with Dr. Guenther Hochhaus, Professor in the Department of Pharmaceutics, on her project entitled “*The Effect of P-glycoprotein (P-gp) on Fluticasone Prorionate (FP) Pharmacokinetics in Mice*”.

Courtney Mack is working with Dr. Leslie Hendeles, Professor in the Department of Pharmacy Practice, on her project entitled “*The Measurement of Cytokins IL-4, IL-5, IL-10 and IL-13 from Plasma and How They Correlate with a Positive Adenosine Challenge*”.

Giubran Salom is working with Dr. John Lima, Clinical Professor in the Department of Pediatrics in Jacksonville, on his project entitled “*Transport of Montelukast in Caco-2 Cells*”.

Matthew Soto is working with Dr. Sean Sullivan, Professor in the Department of Pharmaceutics, on his project entitled “*Activation of Geldanamycin by Secreted β -galactosidase*”.

Jillian Stewart is working with Dr. Michael Katovich, Professor in the Department of Pharmacodynamics, on her project entitled “*Estrogenic Modulation of Cardiac ACE2*”.

Ashley Tyler is working with Dr. Almut Winterstein, Assistant Professor in the Department of Pharmacy Health Care Administration, on her project entitled “*Acute Kidney Injury in Critical Care*”.

Post-doctoral Fellow Research Activities

Dr. Mike Pacanowski, a post-doctoral fellow in the Department of Pharmacy Practice working with Dr. Julie Johnson in the Center for Pharmacogenomics, has been awarded three fellowships this past year. Dr. Pacanowski was awarded a one year, \$7,500 award from the **Rho Chi Society-Eli Lilly and Company Clinical Research Scholarship**; a two-year, \$27,500 award from the Clinical Pharmacy Post-PharmD Fellowship in the Biomedical Sciences from the **American Foundation for Pharmaceutical Education (AFPE)**, co-sponsored by **Pfizer, Inc. and GlaxoSmithKline**; and a two-year, \$93,224 fellowship from the **American Heart Association (AHA)**. Dr. Pacanowski’s project is entitled “*Genetic Polymorphisms and Diabetes: Associations in Antihypertensive Drug Pathways*”.

Dr. Nathan Jesse, a Neonatology Fellow working with Dr. Maureen Keller-Wood in the Department of Pharmacodynamics, received a two-year, \$103,844 award from the **American Heart Association (AHA)**. Dr. Jesse’s project is entitled “*The Independent and Combined Effects of Mineralo- and Glucocorticoids on ENaC Subunits in the Fetal Lung*”.

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; and Chicago, IL in 2004.

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

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

9th U.S.-Thai Pharmacy Education Consortium Meeting

The final meeting site and date for the 9th US-Thai Pharmacy Education Consortium meeting have not been firmly established at this time. Preliminary conversations indicate that this meeting likely will be held in Phuket, Thailand in early 2007.

Thai Students in the College of Pharmacy

Listed below (**Table 22**) is the current number of Thai students and those who have received Royal Thai Scholarships from their government to study abroad for either their Ph.D. or PharmD degree. This year we did not have any new Thai students join our program.

Table 22: Thai Students

Name	THAI Pharmacy College	Date Entered
Pharmacy Health Care Administration Ph.D. Program		
1. Mr. Sawaeng Watcharathanakij	Mahidol	August, 2002
Pharmaceutics Ph.D. Program		
2. Ms. Sasiporn Sarawek	Chiang Mai	January, 2003
3. Ms. Pattaraporn Vanachayangkul *	Chiang Mai	August, 2004

* not a Royal Thai Scholar

Visiting Faculty

Dr. Sindhchai Keokitichai, Dean of the Faculty of Pharmacy, Silpakorn University along with a contingent of faculty from Silpakorn to include: Dr. Gaysom Chansiri, Associate Dean for Academic Affairs; Dr. Surawut Watana, Associate Dean for Continuing Education and Professional Development; Dr. Sathit Niratisai, Assistant Dean for Quality Assurance; and Associate Professor Srisombut Navanopparatskul, Head of the Department of Pharmacology and Toxicology visited our college from August 23-26, 2005, to discuss further the implementation of forensic distant education programs, our Working Professional PharmD Program, as well as to expand cooperative research programs between our two institutions.

Mr. Sakon Sukapon is a faculty member at the University of Changmai in Thailand and is also pursuing his Ph.D. in Pharmacy Administration at Mahidol University. His visit here was part of the Thai government's agreement to provide pre-doctoral students a one year scholarship to attain experience at a foreign university. Mr. Sukapon worked with Dr. Abraham Hartzema in the Department of Pharmacy Health Care Administration during his time here and his study interest is in breast cancer therapy and patient outcomes.

Ms. Arpapat Nantavitayaporn, a graduate student at Silpakorn University, worked with Dr. Earlene Lipowski in the Department of Pharmacy Health Care Administration. Ms. Nantavitayaporn's visit here was to conduct background research and receive guidance on the development of her dissertation project on the development and adoption of a framework for policy and regulation of self-care (OTC) products. She was able to complete her degree requirements for her Ph.D. in April, 2006.

Ms. Hathaikan Chowwanapoonpohn, a graduate student at the University of Changmai, worked with Dr. Earlene Lipowski in the Department of Pharmacy Health Care Administration. Ms. Chowwanapoonpohn spent six months with us while she conducted her research for her dissertation. Her research examined the impact of warning incorporated in advertising for OTC drugs in Thailand. Ms. Chowwanapoonpohn received her Ph.D. last winter, 2005.

ORGS Coordinated Events

Two major COP functions are coordinated by the ORGS (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 21, 2005, in the Rion Ballroom at the Reitz Student Union from 6:00 PM to 9:00 PM. This year we had the second highest attendance record of 125 faculty, staff and students. At the reception this year 22 new graduate students, 3 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 19th Annual Research Showcase and Awards Recognition Day took place on Thursday, February 23, 2006, 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 of the program was **Dr. Robert G. and Maria Bell** of Palm Harbor, Florida, and Ph.D. Class of 1988, with a \$3,500 donation. Other long time supporters are **Dr. Francisco M. and Luisa Alvarez** of Fort Lauderdale, Florida, and Ph.D. Class of 1981, sponsoring the poster competition with a \$600 donation; 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 with a \$500 gift. 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 in 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: **Raymond Booth, Ph.D.** (Associate Professor, Department of Medicinal Chemistry, College of Pharmacy, University of Florida); **Sooyeon Kwon, Ph.D.** (Assistant-In, Department of Pharmacy Health Care Administration, College of Pharmacy, University of Florida); **Scott Wasdo, Ph.D.** (Post-doctoral Associate, Center for Environmental and Human Toxicology, College of Veterinary Medicine, University of Florida); and **Amanda Shaw, Ph.D.** (Research Fellow, Mayo Clinic, Jacksonville, Florida).

The winners of the oral competition are:

Senior Division – winner

Mr. Justin Grobe Pharmacodynamics \$600 cash award
Title: “Prevention of Hypertension-induced Cardiac Remodeling by Angiotensin-(1-7)”

Senior Division – finalist

Mr. Aaron Hirko Pharmaceutics \$300 cash award
Title: “Peripheral Expression of Plasma Gelsolin Reduces Amyloid β in Two Separate Mouse Models of Alzheimer’s Disease”

Senior Division – finalist

Mr. James Sacco Medicinal Chemistry \$300 cash award
Title: “Glucuronidation of Polychlorinated Biphenyls (OH-PCBs) in the Channel Catfish (*Ictalurus Punctatus*)”

Senior Division – finalist

Mr. Aleksandar Todorovic Medicinal Chemistry \$300 cash award
Title: “In Vitro and In Vivo Characterization of Adrenocorticotropic Truncated Analogues”

Junior Division – winner

Mr. Wouter Driessen Pharmaceutics \$600 cash award
Title: “Peptide Targeted Lipid Based Gene Delivery”

Junior Division – finalist

Mr. Maximilian Lobmeyer Pharmaceutics \$300 cash award
Title: “Synergistic Polymorphisms of β_1 - and α_2c - Adrenergic Receptors and the Influence on Left Ventricular Ejection Fraction in Response to β -Blocker Therapy in Heart Failure”

Junior Division – finalist

Ms. Bettina Proneth Medicinal Chemistry \$300 cash award
Title: “Development of an Assay to Monitor Differences in Receptor-ligand Dissociation Kinetics of Human Melanocortin-4-receptor Polymorphisms Associated with Severe Obesity in Humans”

Junior Division – finalist

Ms. Krista Wilson Medicinal Chemistry \$300 cash award
Title: “Cation- π Interactions are Involved in the Determination of Agonist and Antagonist Selectivity in Melanocortin Ligands”

Levitt Division – winner

Mr. Tobias Gerhard Pharmacy Health Care Administration \$600 cash award
Title: “Association between Cardiovascular Outcomes, Diuretic Therapy and the α -adducin Polymorphism: Results from the International Verapamil SR-Trandolapril Study GENetic Substudy (INVEST GENES)”

Levitt Division – finalist

Mr. Christian Hampp Pharmacy Health Care Administration \$300 cash award
Title: “Cost-utility Analysis of Rimonabant in the Treatment of Obesity”

For the poster competition this year we had 31 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: **Yan Gong, Ph.D.** (Research Assistant Professor, Department of Pharmacy Practice, College of Pharmacy, University of Florida); **Teresa Kauf, Ph.D.** (Associate Professor, Department of Pharmacy Health Care Administration, College of Pharmacy, University of Florida); **Hendrik Luesch, Ph.D.** (Assistant Professor, Department of Medicinal Chemistry, College of Pharmacy, University of Florida); **Brenda Pedersen, Ph.D.** (Research Fellow, Mayo Clinic, Jacksonville, Florida); **Jim Talton, Ph.D.** (President and Chief Scientific Officer, Nanotherapeutics, Inc., Alachua, Florida); **Melanie Thompson** (Gainesville, Florida).

The winners of the poster competition are:

Graduate Student Division – winner

Mr. Victor de Castro Pharmaceutics \$300 cash award
Title: *“Evaluation of the Effect of Grapefruit Juice and its Components on P-glycoprotein Activity”*

Pharmacy Student Division – winner

Ms. Cristin Hogal Pharmacy Health Care Administration \$300 cash award
Title: *“Weight-based Heparin Protocols are Efficacious...But Are They Effective?”*

Pharmacy Student Division – winner

Ms. Jillian Steward Pharmacodynamics \$300 cash award
Title: *“Cardiac Myocyte and Fibroblast ACE2 Activity and Modulation by Estrogens”*

Post-doctoral Fellow Division – winner

Dr. Yasmeen Khan Pharmacy Practice \$300 cash award
Title: *“Relative Amount of Fluticasone Delivered by HFA-MDI to Children of Different Ages”*

Other ORGS Activities

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

Committee Assignments

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

COLLEGE COMMITTEES

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

HEALTH SCIENCE CENTER (HSC) COMMITTEES

- **HSC Research Dean's Group:** This committee met monthly throughout the year to discuss relevant issues related to both basic and clinical research within the HSC and University.
- **Anatomical Specimen Task Force:** This committee met twice throughout the year to consider current and future policies and use of cadavers and human specimens within the Health Science Center teaching facilities.
- **HSC Traffic and Parking Task Force:** This committee met twice 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 a three year term. This committee met monthly in Emerson Alumni Hall to provide recommendations to UF entities related to policies related to UF land use and facilities development. The breadth of this committee considered the land use for new building sites as well as planning for proposed renovation of existing buildings. Our charge was to also assist in the development and updating of the UF Master Plan related to land and building use.
- **University of Florida Community Campaign:** The Executive Associate Dean and Senior 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 2005 (Sept.) and Spring 2006 (April) National Advisory Board Meetings.
- **AACP Annual Meeting:** The Executive Associate Dean attended the 2005 AACP Annual Meeting in Salt Lake City, UT from July 10th to July 15th, 2005.
- **AACP Interim Meeting:** The Executive Associate Dean attended the 2006 AACP Interim Meeting in Washington, DC from February 7th to February 9th, 2005.

Appendices

Section

A = Letter to Graduate Applicants

B = Complete Listing of Extramural Support by Department and Faculty

C = 19th 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 Pharmacy Health Care Administration. 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) 846-1956, 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) 846-2725, E-mail: hughes@cop.ufl.edu

Graduate Program in Pharmacy Health Care Administration

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 Pharmacy Health Care Administration 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 Pharmacy Health Care Administration
PO Box 100496
College of Pharmacy, University of Florida
Gainesville, Florida 32610-0496
(352) 392-9120, 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. Joanna Peris
Department of Pharmacodynamics
PO Box 100487
College of Pharmacy, University of Florida
Gainesville, Florida 32610-0487
(352) 392-3292, E-mail: peris@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
College of Pharmacy
University of Florida

Respectfully,



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

Complete Listing of Extramural Support in the COP for FY 05/06

MEDICINAL CHEMISTRY

Faculty	Amount	Number	Agency	Project Title
Raymond Bergeron	\$639,179	2	National Institute of Health	Iron Chelators Predicated on Desferrithiocin
	\$200,000	1	Genzyme Corporation	Unrestricted Support of Dr. Bergeron's Research in Response to a Research Gift
Raymond Booth	\$232,722	1	National Institute of Health	Functional Probes for Brain Histamine H1 Receptors
Carrie Haskell-Luevano	\$230,213	2	National Institute of Health	Characterization of Human Melanocortin-4 Receptor Polymorphisms
	\$49,500	1	American Heart Association-FL	Design Synthesis and Characterization of Melanocortin Receptors Ligands
	\$192,475	1	National Institute of Health	Endogenous G-Protein Coupled Receptor Antagonists
	\$542,025	3	National Institute of Health	Structural Determinants of Neuroendocrine Receptors
	\$20,000	1	American Heart Association-FL	Structure-Activity-Relationship Studies of Pro-Opiomelanocortin Derived Peptides
	\$100,000	1	American Diabetes Association	Voluntary Exercise Identifies New Gene Candidates for the Prevention of Type 2 Diabetes
	Margaret James	\$11,997	3	National Institute of Health
\$8,213		1	National Institute of Health	Dichloroacetate Kinetics, Metabolism and Toxicology
\$112,262		2	National Institute of Health	Health Effects of Chlorinated Compounds - Project 6
\$7,732		1	National Institute of Health	Pharmacotoxicology of Trichloroethylene Metabolites
\$27,867		1	National Institute of Health	The Role of Quinols in Estrogen Neuroprotection
Hendrik Luesch	\$20,000	1	American Cancer Society	Proteomics Strategies to Identify the Target of Apratoxin A
Kenneth Sloan	\$25,072	1	National Institute of Health	Stable-Isotope Labeled Dinitrophenylhydrazines and Methods for Their Use

PHARMACEUTICS & CENTERS FOR DRUG DISCOVERY and NEUROBIOLOGY OF AGING

Faculty	Amount	Number	Agency	Project Title
Nicholas Bodor	\$60,821	4	Noven Pharmaceuticals	A Dose-Ranging Pharmacokinetic Study of Estradiol Transdermal System, Vivelle Dot (R), in Mini-pigs and A Dose-ranging Pharmacokinetic Study of Methylphenidate Transdermal System (MYS) in Mini-pigs
Veronika Butterweck	\$31,000	1	U.S. Department of Agriculture	Adding Value to Tropical and Sub-Tropical Botanicals: Identification and Evaluation of Bioactive Polyphenolics in Ilex, Guava, Mamaki, and Noni Leaf Teas
	\$14,040	1	Finzelberg GMBH & Company	Analysis Screening of Plant Extracts
	\$25,785	1	Pascoe GMBH	Anxiolytic Effects of a Passion Flower Extract in Animal Models of Anxiety
	\$50,000	1	Tokiwa Phytochemical Company	Anxiolytic Effects of Apocynum Venetum in the Elevated Plus Maze in Mice
	\$10,179	1	Max Zeller Sohne	Effect of an Extract of Humulus Iupulus (Hops) on Body Temperature in Mice
Hartmut Derendorf	\$163,125	1	Johnson & Johnson	In Vitro Study Investigating the Effects of Rwj-416457 on Bacterial Strains
	\$5,000	1	Golin-Harris International Inc.	Maintenance of Drug Interaction Web Site
	\$50,000	1	Merck & Company Inc.	Merck Graduate Student Training Fellowship
	\$100,000	1	Pfizer Incorporated	Pfizer Graduate Fellowship Award
Guenther Hochhaus	\$20,160	1	Glycadia	Determination of Gly-230 Using Hplc/Ms/Ms
	\$132,200	4	Ivax Corporation	Efficacy and Safety of Talampanel as Adjunctive Therapy in Patients with Partial Seizures
	\$19,945	1	AstraZeneca	Measurement of Fluticasone and Mometasone Levels in Plasma Samples
	\$15,833	2	Eon Laboratories	Stability and Drug Content of Pharmaceutically Relevant Drug Formulations
Jeff Hughes	\$183,692	1	National Institute of Health	Gene Delivery Based on Microbes

PHARMACEUTICS & CENTERS FOR DRUG DISCOVERY and NEUROBIOLOGY OF AGING (cont.)

Faculty	Amount	Number	Agency	Project Title
Jeff Hughes (cont.)	\$18,250	1	United Therapeutics Corp.	Liposome Encapsulation of Iminosugar Derivatives to Increase Uptake into Culture Cells
Sihong Song	\$359,477	2	National Institute of Health	Gene Therapy for Correction of Piz Mutation
	\$209,507	1	National Institute of Health	Recombinant AAV for Correction of Genetic Abnormalities
Sean Sullivan	\$47,600	1	National Institute of Health	Targeting the Igf-1 System in Retinal Angiogenesis
Susanne Talcott	\$15,438	1	Geni Herbs	Bioavailability and Antioxidant Effects of PomElla, a Pomegranate Extract

PHARMACY HEALTH CARE ADMIN. & DUBOW FAMILY CENTER FOR RESEARCH IN PHARM. CARE

Faculty	Amount	Number	Agency	Project Title
Abraham Hartzema	\$32,000	1	Univ. of Florida Foundation	Assistance for the Perry A Foote Fund
SooYeon Kwon	\$36,616	2	National Institute of Health	Improving Anti-Thrombotic use in Stroke Prevention
Earlene Lipowski	\$5,000	1	Univ. of Florida Foundation	Measuring Organizational Sponsorship Credibility: The Application of Source Credibility Theory in Determining the Most Effective Advocacy Advertisement Sponsor
	\$8,500	1	Univ. of Florida Foundation	Precautions and Warnings with Prescription Drugs
Douglas Ried	\$34,160	1	Abbott Laboratories	The Cost-effectiveness of Calcium Channel Blocker-based and Non-calcium Blocker-based Hypertension Treatment Strategies Among Coronary Disease Patient Enrolled in the International Verapamil SR/Trandolapril Study (INVEST)
Rich Segal	\$1,000	1	U.S. Dept. of Veterans Affairs	Formative Evaluation of an In-home Monitoring Program in the VA Sunshine Healthcare Network
	\$65,256	1	Pfizer Incorporated	Pfizer Residency

PHARMACODYNAMICS

Faculty	Amount	Number	Agency	Project Title
Jason Frazier	\$550,677	2	National Institute of Health	Endocannabinoids and Tonic Gaba in the Dentate Gyrus
Michael Katovich	\$20,348	1	National Institute of Health	At1 Receptor Control in Chronic Hypertension Attenuation
	\$35,927	1	National Institute of Health	At2 Receptors in Cardiovascular Control
Maureen Keller-Wood	\$229,786	1	National Institute of Health	Control of Corticotropin During Pregnancy
	\$240,106	1	National Institute of Health	Cortisol at MR Mediate Fetal Physiologic/Genomic Effects
	\$22,258	1	National Institute of Health	Estrogen Influences on Fetal Adrenocorticotropin
	\$21,770	1	American Heart Association-FL	Mechanism(S) by Which Cortisol-induced Enlargements of Fetal Sheep Hearts Occurs
Bin Liu	\$142,081	1	National Institute of Health	Combined Dopaminergic Neurotoxicity of Manganese and LPS
	\$57,496	1	National Institute of Health	Sleep Apnea: Upper Airway Nerve Injury
William Millard	\$625	1	Denali Biotechnologies	Analysis of Calcitonin in Pulverized Salmon Bone
	\$44,120	2	National Institute of Health	Ethnic Differences in Responses to Painful Stimuli
	\$49,806	3	National Institute of Health	Mechanisms of Central and Peripheral Hyperalgesia
Joanna Peris	\$182,340	1	National Institute of Health	Time Resolution of Ethanol-Induced Neurotransmission

PHARMACY PRACTICE & CENTER FOR PHARMACOGENOMICS

Faculty	Amount	Number	Agency	Project Title
Reginald Frye	\$18,252	1	GlaxoSmithKline	Analytical Services for GlaxoSmithKline Study Nn210002: A Double-blind, Parallel, Randomized, Placebo-controlled Ascending Repeat –dose Study to Investigate GW695634X and GW678248X Safety, Tolerability and Pharmacokinetics Following Oral Administration of GW695634G to Healthy Subjects for 10 Days
	\$135,476	1	GlaxoSmithKline	Analytical Services for GlaxoSmithKline Study 102874: A Phase I, Single-center, Open-label, Multiple-probe Drug Interaction Study to Determine the Effects of GW823093 on the Metabolism of CYP450 Probe Substrates in Healthy Subjects
Leslie Hendeles	\$105,560	3	Norvartis - United States	The Effect of Omalizumab on Airway Responsiveness to Adenosine with Poorly Controlled Asthma
	\$53,450	5	GlaxoSmithKline	The Impact of Dosimeter on Measurement of Airway Responsiveness to Methacholine
Julie Johnson	\$8,579	2	National Institute of Health	Altered Renin Angiotensin System as Mechanism for Coronary Microvascular Dysfunction in Women
	\$125,319	1	National Institute of Health	Beta-receptor Polymorphisms and Cardiovascular Pharmacogenomics
	\$45,796	1	American Heart Association-FL	Cyp3a5 Genotype: Influence on Pharmacokinetics, Pharmacodynamics and Drug Interactions
	\$45,796	1	American Heart Association-FL	Genetic Polymorphisms and Diabetes: Association in Antihypertensive Drug Pathways
	\$21,770	1	American Heart Association-FL	Genetic Variation of Beta-adrenergic Receptor Kinase 1: Definition, Functional Consequences, and Clinical Implications
	\$797,643	1	National Institute of Health	Hypertension Pharmacogenetics
	\$1,368,203	1	National Institute of Health	Pharmacogenomic Evaluation of Antihypertensive Responses
	\$21,770	1	American Heart Association-FL	Role of the Arachidonate 5-Lipoxygenase Pathway in Coronary Heart Disease
Janet Karlix	\$29	1	Miscellaneous Donors	Miscellaneous Donors

PHARMACY PRACTICE & CENTER FOR PHARMACOGENOMICS (cont.)

Faculty	Amount	Number	Agency	Project Title
Taimour Langaee	\$6,645	1	National Institute of Health	Pharmacotoxicology of Trichloroethylene Metabolites
Susan Marino	\$276,282	3	National Institute of Health	Forecasting Topiramate's Effect on Cognitive Function
Daniel Robinson	\$128,800	1	Department of Health	North Florida Area Health Education Centers Program (AHEC)
Issam Zineh	\$2,000	1	American Heart Association	Atorvastatin Effects on Circulating and Leukocyte-Elaborate Eotaxin and I-Tac Concentrations
	\$80,000	1	American Heart Association-FL	Systemic Immunomodulatory Effects and Pharmacogenetics of Atorvastatin in Early Atherosclerosis

ADMINISTRATION

Faculty	Amount	Number	Agency	Project Title
William Millard	\$49,557	1	Shands Teaching Hospital	Graduate Stipend Support For Clinical Pharmaceutical Scientist Program
	\$314,364	1	Shands Jacksonville Medical Ctr	Pharmaceutical Care and Education Contract 3430 (Contractual Agreement for Professional Services Between Shands Jacksonville and the University of Florida College of Pharmacy)
	\$49,530	1	U.S. Dept. of Veterans Affairs	Professional Services for North Florida/South Georgia VARMC Rehabilitation Outcomes Research Center (151b)

**19TH ANNUAL RESEARCH
SHOWCASE AND AWARDS
RECOGNITION DAY**

THURSDAY, FEBRUARY 23RD, 2006



**UNIVERSITY OF FLORIDA
COLLEGE OF PHARMACY**

A SPECIAL THANKS TO THIS YEAR'S SPONSORS

PLATINUM SPONSORS

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

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SCHEDULE OF EVENTS

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

POSTER COMPETITION

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

11:45am - 12:45pm **Luncheon** – Poster and Oral Judges (Pharmacy Health Care Administration Conference Room, Room 2309)

ORAL COMPETITION

1:00pm - 1:10pm **Introduction** – Dr. William Millard, Executive Associate Dean (Room G-112)

Levitt Division (20 minute presentations)

1:10pm - 1:30pm Christian Hampp
1:30pm - 1:50pm Tobias Gerhard

Junior Division (15 minute presentations)

1:55pm - 2:10pm Krista Wilson
2:10pm - 2:25pm Bettina Proneth
2:25pm - 2:40pm Maximilian Lobmeyer
2:40pm - 2:55pm Wouter Driessen

3:00pm - 3:15pm **Break**

Senior Division (20 minute presentations)

3:15pm - 3:35pm Aleksandar Todorovic
3:35pm - 3:55pm James Sacco
3:55pm - 4:15pm Aaron Hirko
4:15pm - 4:35pm Justin Grobe

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

ORAL COMPETITION

LEVITT DIVISION

#1 Presenter: **Christian Hampp**
Department: Pharmacy Health Care Administration
Research Title: Cost-utility Analysis of Rimonabant in the Treatment of Obesity

#2 Presenter: **Tobias Gerhard**
Department: Pharmacy Health Care Administration
Research Title: Association between Cardiovascular Outcomes, Diuretic Therapy and the α -adducin Polymorphism: Results from the International Verapamil SR-Trandolapril Study GENetic Substudy (INVEST GENES)

JUNIOR DIVISION

#1 Presenter: **Krista Wilson**
Department: Medicinal Chemistry
Research Title: Cation- π Interactions are Involved in the Determination of Agonist and Antagonist Selectivity in Melanocortin Ligands

#2 Presenter: **Bettina Proneth**
Department: Medicinal Chemistry
Research Title: Development of an Assay to Monitor Differences in Receptor-ligand Dissociation Kinetics of Human Melanocortin-4-receptor Polymorphisms Associated with Severe Obesity in Humans

#3 Presenter: **Maximilian Lobmeyer**
Department: Pharmaceutics
Research Title: Synergistic Polymorphisms of β_1 - and α_{2c} - Adrenergic Receptors and the Influence on Left Ventricular Ejection Fraction in Response to β -Blocker Therapy in Heart Failure

ORAL COMPETITION (cont.)

JUNIOR DIVISION (cont.)

#4 Presenter: **Wouter Driessen**
Department: Pharmaceutics
Research Title: Peptide Targeted Lipid Based Gene Delivery

SENIOR DIVISION

#1 Presenter: **Aleksandar Todorovic**
Department: Medicinal Chemistry
Research Title: *In Vitro* and *in Vivo* Characterization of Adrenocorticotropin Truncated Analogues

#2 Presenter: **James Sacco**
Department: Medicinal Chemistry
Research Title: Glucuronidation of Polychlorinated Biphenyls (OH-PCBs) in the Channel Catfish (*Ictalurus Punctatus*)

#3 Presenter: **Aaron Hirko**
Department: Pharmaceutics
Research Title: Peripheral Expression of Plasma Gelsolin Reduces Amyloid β in Two Separate Mouse Models of Alzheimer's Disease

#4 Presenter: **Justin Grobe**
Department: Pharmacodynamics
Research Title: Prevention of Hypertension-induced Cardiac Remodeling by Angiotensin-(1-7)

POSTER COMPETITION

1 **Integrating Susceptibility Data from Two Surveillance Programs with Unique Methodological Techniques: The Antibigram Resistance Method or Isolate-based Resistance Monitoring (ARMOR)**
Presenter: Benjamin J Epstein (Pharmacy Practice/Post-doctoral Fellow)
Authors: B Epstein, J Gums, P Turner

2 **Relative Amount of Fluticasone Delivered by HFA-MDI to Children of Different Ages**
Presenter: Yasmeen R Khan (Pharmacy Practice/Post-doctoral Fellow)
Authors: Y Khan, G Hochhaus, T Spencer, J Shustee, L Hendeles

3 **Mixed Effect Modeling of Ertapenem Pharmacokinetics in ICU Patients**
Presenter: Vipul Kumar (Pharmaceutics/Post-doctoral Fellow)
Authors: V Kumar, O Burkhardt, J Peszynska, H Derendorf

4 **A β_2 -adrenoceptor Haplotype is Associated with the Increased Risk for Death and Heart Transplantation in Heart Failure Patients**
Presenter: Jaekyu Shin (Pharmacy Practice/Post-doctoral Fellow)
Authors: J Shin, M Lobmeyer, Y Gong, I Zineh, T Langae, H Yarandi, R Schofield, J Aranda, J Hill, D Pauly, J Johnson

5 **Citrus Flavonoids in the Inhibition of P-glycoprotein in Vitro**
Presenter: Susanne Talcott (Pharmaceutics/Post-doctoral Fellow)
Authors: S Talcott, W de Castro, V Butterweck, H Derendorf

6 **Conformational Studies of Agouti-Related Protein (AGRP) Peptides**
Presenter: Andrzej Wilczynski (Medicinal Chemistry/Post-doctoral Fellow)
Authors: A Wilczynski, K Wilson, J Scott, A Edison, C Haskell-Luevano

7 **Effect of High-dose Atorvastatin on Serum Leptin Concentrations in Individuals without Dyslipidemia**
Presenter: Julie Cromer (Pharmacy Practice/Pharmacy Student)
Authors: J Cromer, T Wessel, C Arant, R Schofield, I Zineh

8 **Significant Association Between Endothelin Receptor A Haplotype and Death or Heart Transplantation in Heart Failure Patients**
Presenter: Heather Marie Davis (Pharmacy Practice/Pharmacy Student)
Authors: H Davis, J Shin, T Langae, Y Gong, D Pauly, J Johnson

POSTER COMPETITION (cont.)

- # 9 **Isolation and Characterization of Act-A Protein from *Listeria Monocytogenes***
Presenter: Aaron Falchook (Pharmaceutics/Pharmacy Student)
Authors: A Falchook, J Hughes
- # 10 **Weight-based Heparin Protocols are Efficacious...But Are They Effective?**
Presenter: Cristin Hogan (Pharmacy Health Care Admin/Pharmacy Student)
Authors: C Hogan, A Winterstein, T Johns, J Layon, M Russin, C Klodell
- # 11 **Changes in Weight Associated with Second Generation Antipsychotics and Their Association with Blood Pressure Change**
Presenter: Joel R M^cConkey (Pharmacy Health Care Admin/Pharmacy Student)
Authors: J M^cConkey, P Garman, C Hsu, M Bengtson, L Ried
- # 12 **Circadian Variation of Blood Pressure in Severe Chronic Heart Failure**
Presenter: Mariellen Moore (Pharmacy Practice/Pharmacy Student)
Authors: M Moore, R Schofield, S Kline, Y Gong, V Bhanderi, J Johnson
- # 13 **Inhibition of BVD Virus Replication by Cellular Delivery of UT 231-B and Amantadine Using Cationic Liposomes**
Presenter: Chetan Patel (Pharmaceutics/Pharmacy Student)
Authors: C Patel, N Nguyen, T Dartsch, J Terrell, J Hughes
- # 14 **Development of a Semi-mechanistic Pharmacokinetic/Pharmacodynamic Approach for Linezolid**
Presenter: Christian Scheerans (Pharmaceutics/Exchange Student)
Authors: C Scheerans, J Wagner, U Goebel, C Kloft, H Derendorf
- # 15 **Atorvastatin Effect on Circulating and Leukocyte-produced CD40 Ligand in People with Normal Cholesterol**
Presenter: Gregory J Welder (Pharmacy Practice/Pharmacy Student)
Authors: G Welder, C Arant, T Wessel, R Schofield, I Zineh
- # 16 **Complementary and Alternative Medicine (CAM) Use Among Individuals Participating in Research: Implications for Research and Practice**
Presenter: Gregory J Welder (Pharmacy Practice/Pharmacy Student)
Authors: G Welder, T Wessel, C Arant, R Schofield, I Zineh

POSTER COMPETITION (cont.)

- # 17 **Cardiac Myocyte and Fibroblast ACE2 Activity and Modulation by Estrogens**
Presenter: Jillian M Stewart (Pharmacodynamics/Pharmacy Student)
Authors: J Stewart, J Grobe, M Raizada, M Katovich
- # 18 **Evaluation of the Effect of Grapefruit Juice and its Components on P-glycoprotein Activity**
Presenter: Whocely Victor de Castro (Pharmaceutics/Graduate Student)
Authors: W de Castro, S Mertens-Talcott, V Butterweck, H Derendorf
- # 19 **Differential Effects of Switching from Olanzapine to Another Second Generation Antipsychotic (SGA) on C-LDL, C-HDL, and Triglyceride Levels: Findings from a VA Population with Schizophrenia**
Presenter: Patrick M Garman (Pharmacy Health Care Admin/Graduate Student)
Authors: P Garman, C Hsu, M Bengtson, J M^cConkey L Ried
- # 20 **Treatment of Arthritis in DBA 1 Mice using Alpha 1-Antitrypsin Protein Therapy**
Presenter: Christian Grimstein (Pharmaceutics/Graduate Student)
Authors: C Grimstein, Y-K Choi, M Siemer, S Song
- # 21 **Anxiolytic Activity of a Leave Extract of *Apocynum Venetum* L and Possible Mechanisms of Action**
Presenter: Oliver Grundmann (Pharmaceutics/Graduate Student)
Authors: O Grundmann, S Seo, J-I Nakajima, V Butterweck
- # 22 **Transduction of Oval Cells by AAV and Lenti Vectors**
Presenter: Hong Li (Pharmaceutics/Graduate Student)
Authors: H Li, S Song
- # 23 **Economic Evaluation of a School Based BCG Revaccination Program in Nigeria**
Presenter: Ahunna Onyenwenyi (Pharmacy Health Care Admin/Graduate Student)
Authors: A Onyenwenyi, A Winterstein
- # 24 **Preparation of Sustained Release Microparticles for the Delivery of an Anti-inflammatory Drug**
Presenter: Elanor Pinto (Pharmaceutics/Graduate Student)
Authors: E Pinto, G Hochhaus

POSTER COMPETITION (cont.)

- # 25 **Development of a Rapid Method for the Determination of Rosiglitazone in Human Plasma by Liquid Chromatography Tandem Mass Spectrometry in a 96-well Format: Application to Pharmacokinetic Studies**
Presenter: Elvin T Price (Pharmacy Practice/Graduate Student)
Authors: E Price, C Galloway, R Frye
- # 26 **Experimental Pitfalls in Protein Binding Measurements**
Presenter: Stephan Schmidt (Pharmaceutics/Graduate Student)
Authors: S Schmidt, O Burkhardt, M Sahre, H Derendorf
- # 27 **Characterization of the Transport of Inhaled Corticosteroids Across the Blood Brain Barrier Using a Modified Caco-2 Cell Line**
Presenter: Zia Tayab (Pharmaceutics/Graduate Student)
Authors: Z Tayab, G Hochhaus
- # 28 **Optimization of Polyplex Gene Transfer by Long Term Human and Rat Brain Tumor Slice Culture**
Presenter: Nathalie Y Toussaint (Pharmaceutics/Graduate Student)
Authors: N Toussaint, S Kearns, J Qui, A Yachnis, R Mandel, B Scheffler, D Steindler, S Sullivan
- # 29 **Development of Non-viral Gene Therapy Targeting Insulin-like Growth Factor (IGF) System for Treatment of Brain Tumors**
Presenter: Leah R Villegas (Pharmaceutics/Graduate Student)
Authors: L Villegas, S Sullivan
- # 30 **In-vitro Study of siRNA Delivery Systems**
Presenter: Preeti Yadava (Pharmaceutics/Graduate Student)
Authors: P Yadava, J Hughes
- # 31 **Online Database for Grapefruit Juice Drug Interactions: What Have We Learned?**
Presenter: Immo Zdrojewski (Pharmaceutics/Graduate Student)
Authors: I Zdrojewski, W de Castro, J Meyer, V Butterweck, H Derendorf

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