

Office of Research and Graduate Studies

2004



2005

Annual Report

**College of Pharmacy
University of Florida**

Office of Research and Graduate Studies Staff

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Executive Associate Dean

Professor, Department of Pharmacodynamics

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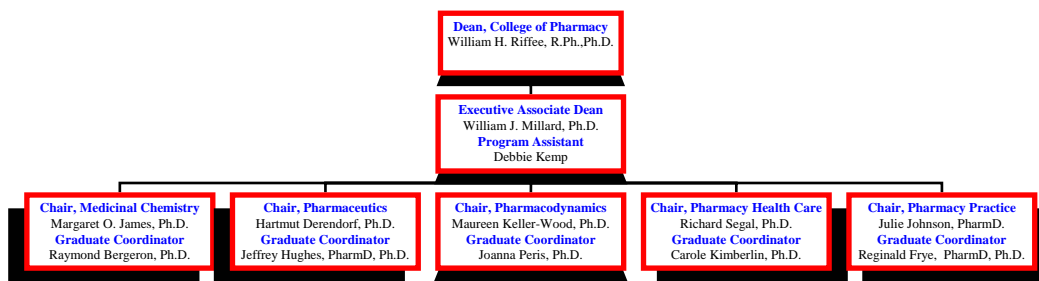
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Introduction

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

The structure of the ORGS is outlined in **Figure 1**. Dr. William J. Millard is both Professor in the Department of Pharmacodynamics and Associate Dean for Research and Graduate Studies. Dr. Millard accepted this role 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. As part of this new position, Dr. Millard 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.

Most of the 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 are to 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 (GSC) 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 or a given research topic 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 (see **Figure 1**). During FY 04/05 the ORGS Program Assistant was Ms. Debbie Kemp. Debbie assumed the ORGS Program Assistant's role in June of 2001. The Program Assistant's role is to handle the daily operations of the ORGS related to graduate education. 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. The Program Assistant deals individually with graduate students assisting with various problems and graduate course registration. A major responsibility of the Program Assistant

is to plan/organize the various functions of the ORGS. The tracking and filing of new and ongoing research grants is also another major responsibility of the Program Assistant.

The remainder of this report will deal with COP Graduate Programs, COP Research Activity, U.S.-Thai Consortium Activities, ORGS-Coordinated Functions and Other Activities of the ORGS for FY 04/05.

Graduate Education and Program Activities

Graduate Programs in the COP (overview)

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 FY 03/04. 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 all departments in the COP requires each student to prepare and defend a thesis as part of their degree. Pharmacy Health Care Administration also has the option of a 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. Today both graduate programs and graduate student recruitment and oversight remain decentralized with the ORGS acting as the coordinating unit for graduate studies in the College. 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 three areas of concentration, Forensic Toxicology, Forensic Drug Chemistry and Forensic DNA & Serology. Within each concentration the program offers a Masters Degree or a Certificate. The Toxicology concentration is provided by the College of Veterinary Medicine while the Drug Chemistry and DNA & Serology 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. By January 2003 all three programs were being offered and there are now over 450 enrollees each semester. The *Forensic Science Program* has become global in nature with students from the United States, Canada, Australia, New Zealand, France, The United Kingdom, Japan, Hong Kong, Greenland, Puerto Rico, Columbia, The United Arab Emirates and Antarctica enrolled in graduate degree coursework.

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. 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 four degree granting departments, a representative from the **Clinical Pharmaceutical Sciences Program** 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 GSC for FY 04/05 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 FY 04/05. 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 18th 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. For FY 04/05 **Mr. James Sacco** (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 Student, Post-doctoral Fellow, Visiting Scholar and Exchange Student Demographics

The College has 38 graduate faculty members who are closely involved in the training of all graduate students, post-doctoral fellows and visiting students and scholars. A complete listing of the college graduate faculty, by department, can be found in **Table 1**. A listing of all graduate students according to their department with their date of entrance into the graduate program, degree sought and mentor is found in **Table 2**. Ninety-one 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 two M.S. Students (see below: **Graduate Student Graduation Activities**). The COP accepted 27 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. During FY 04/05 the number of male students was 43 compared to 48 female students for a ratio of 47/53 percent. The college has a 42/58 percent American/Foreign student ratio as well.

Table 1: Graduate Faculty	
Department/Center	Name
Medicinal Chemistry	Raymond Bergeron
	Carrie Haskell-Luevano
	Margaret James
	Laszlo Prokai
	Stephen Schulman
	Kenneth Sloan
Pharmaceutics/ Center for Drug Discovery & Center for Drug Interaction Research and Education	Veronika Butterweck
	Hartmut Derendorf
	Guenther Hochhaus
	Jeff Hughes
	Sihong Song
	Sean Sullivan
Pharmacodynamics	Dorette Ellis
	Jason Frazier
	Michael Katovich
	Maureen Keller-Wood
	Bin Liu
	Michael Meldrum
	William Millard
	Joanna Peris
	William Riffée
	Pharmacy Health Care Administration/ Center for Research in Pharmaceutical Care
David Brushwood	
Abraham Hartzema	
Charles D. Hepler	
Carole Kimberlin	
Earlene Lipowski	
L. Douglas Ried	
Richard Segal	
Almut Winterstein	
Pharmacy Practice/ Center for Pharmacogenomics	
	Reginald Frye
	Leslie Hendeles
	Julie Johnson
	Larry Lopez
	Michael McKenzie
	J. Daniel Robinson
	Issam Zineh

Table 2: Graduate Students

Department/Center	Name	Date Entered	Expected Grad Date	Degree Sought	Mentor
Medicinal Chemistry	Choi, Yohan **	Aug-01	Aug-04	M.S.	Wu
	Dixit, Vaishali **	Jan-00	May-05	Ph.D.	James
	Irani, Boman	Aug-00	Dec-05	Ph.D.	Haskell-Luevano
	Jiang, Yi *	Jan-05	Dec-08	Ph.D.	Bergeron
	Joseph, Christine **	Aug-00	Dec-04	Ph.D.	Haskell-Luevano
	Majumdar, Susruta	Aug-02	Aug-06	Ph.D.	Sloan
	Merritt, Kristen	Aug-02	Aug-06	Ph.D.	James
	Nguyen, John **	Aug-98	Dec-04	Ph.D.	Bergeron
	Nyagode, Betty	Aug-02	Aug-06	Ph.D.	James
	Palusak, Ryan *	Jan-05	May-08	Ph.D.	Haskell-Luevano
	Pedersen, Brenda **	Aug-00	Aug-04	Ph.D.	Wu
	Proneth, Bettina	Jan-04	May-08	Ph.D.	Haskell-Luevano
	Rivera-Portalatin, Nilka	Jan-03	Dec-06	Ph.D.	Prokai
	Sacco, James	Aug-01	Aug-05	Ph.D.	James
	Stuchal, Leah	Aug-00	Dec-05	Ph.D.	James
	Thomas, Joshua	Aug-01	Aug-05	Ph.D.	Sloan
	Todorovic, Aleksandar	Aug-01	Aug-05	Ph.D.	Haskell-Luevano
	Vera, Jose *	Aug-04	Aug-08	Ph.D.	Prokai
	Wang, Nasha *	Aug-04	Aug-08	Ph.D.	Bergeron
	Wang, Xiaoli	Aug-02	Aug-06	Ph.D.	Prokai
	Wasdo, Scott	Aug-98	Dec-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	Aug-05	Ph.D.	Bergeron
Pharmaceutics/ Center for Drug Discovery & Center for Drug Interaction Research and Education	Braddy, April **	Aug-00	Dec-04	Ph.D.	Prokai
	Castro, Whocely	Aug-02	May-06	Ph.D.	Derendorf
	Dravid, Prajakta *	Aug-04	Aug-07	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	Dec-05	Ph.D.	Bodor/Hughes
	Li, Hong *	Aug-04	Aug-08	Ph.D.	Hughes
	Li, Yanjun *	Aug-04	Aug-08	Ph.D.	Hughes
	Lobmeyer, Maximilian *	Aug-04	Aug-08	Ph.D.	Hughes
	Mudunuri, Keerti	Jan-04	Aug-08	Ph.D.	Hughes
	Nguyen, Vien	Aug-99	Dec-05	Ph.D.	Prokai
	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	Aug-06	Ph.D.	Hughes	
Sahasranaman, Srikumar **	Aug-00	Aug-04	Ph.D.	Hochhaus	
Sarawek, Sasiporn	Jan-03	May-07	Ph.D.	Butterweck	
Schentrup, Anne *	Aug-04	May-07	Ph.D.	Johnson	

* new students entering a graduate program during FY 04/05

** students who graduated with an M.S. or Ph.D. during FY 04/05

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)	Schuck, Edgar **	Aug-00	Dec-04	Ph.D.	Derendorf
	Schuck, Virna **	Aug-00	Dec-04	Ph.D.	Derendorf
	Tang, Mei	Aug-02	May-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
	Winkler, Julia **	Jan-01	Dec-04	Ph.D.	Bodor/Derendorf
	Wu, Kai	Aug-02	May-06	Ph.D.	Hochhaus
	Yadava, Preeti	Aug-02	May-06	Ph.D.	Hochhaus
	Zdrojewski, Immo	Aug-03	May-07	Ph.D.	Derendorf
	Zhu, Hao **	Jan-01	Aug-04	Ph.D.	Sullivan
	Pharmacodynamics	Beck, Caren	Aug-99	Dec-05	Ph.D.
Bhatia, Chinki *		Aug-04	May-08	Ph.D.	Peris
Grobe, Justin		Aug-01	Dec-05	Ph.D.	Katovich
Landen, Melissa *		Aug-04	May-08	Ph.D.	Peris
Li, Zhimin *		Aug-04	May-08	Ph.D.	Peris
Mao, Haoyu *		Aug-04	May-08	Ph.D.	Peris
Shaw, Amanda **		Aug-99	Dec-04	Ph.D.	Millard
Smith, Anthony		Aug-98	Dec-05	Ph.D.	Peris
Pharmacy Health Care Admin/ Center for Research in Pharmaceutical Care	Ballentine, Amanda	Aug-02	May-07	Ph.D.	Lipowski
	Chen, Chih-Ying *	Aug-04	May-08	Ph.D.	Segal
	Garman, Patrick *	Aug-04	May-08	Ph.D.	Segal
	Gerhard, Tobias	Aug-02	May-07	Ph.D.	Hartzema
	Graham, Stephen	Jan-01	Dec-05	Ph.D.	Hartzema
	Hampp, Christian *	Aug-04	May-08	Ph.D.	Segal
	Hsu, Chienning *	Aug-04	May-08	Ph.D.	Segal
	Hwang, Jae-Min	Aug-03	May-08	Ph.D.	Winterstein
	Kanjanarat, Penkarn	Aug-00	Dec-05	Ph.D.	Winterstein
	Mayhew, Dionne **	Aug-01	Dec-04	Ph.D.	Hartzema
	McMullen, Diane	Aug-00	Dec-05	Ph.D.	Ried
	Mitchell, Karen	Aug-03	May-08	Ph.D.	Segal
	Mouallem, Dora **	Aug-04	May-05	M.S.	Segal
	Mueller, Michael	Aug-01	May-06	Ph.D.	Kimberlin/Brushwood
	Murkherjee, Kumar *	Aug-04	May-08	Ph.D.	Segal
	Nyanteh, Harry	Aug-02	May-07	Ph.D.	Hartzema
	Onyenwenyi, Ahunna	Aug-03	May-08	Ph.D.	Segal
	Pinto, Sharrel **	Aug-01	Dec-04	Ph.D.	Lipowski
	Sauer, Brian **	Jan-99	Aug-04	Ph.D.	Hepler
	Schiller, Karl (Cameron)	Aug-02	May-07	Ph.D.	Segal
Taylor, Michael **	Jun-01	May-05	Ph.D.	Hartzema	
Telfair, Tamara	Aug-02	May-07	Ph.D.	Hartzema	
Watcharathanakij, Sawaeng	Aug-02	May-07	Ph.D.	Segal	
White, Annesha	Aug-03	May-08	Ph.D.	Segal	
Wilson, Debbie **	Aug-99	Dec-04	Ph.D.	Kimberlin	

* new students entering a graduate program during FY 04/05

** students who graduated with an M.S. or Ph.D. during FY 04/05

U.S. minority students comprised 13.2% (12 of 91) of the COP graduate student population (**Table 3**). This percentage has remained about the same over the last four fiscal years. The minority graduate student percentage was 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 34. Pharmacy Health Care Administration had 25 students, Medicinal Chemistry had 24 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 class of 2004/2005 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 7**.

Gender		Citizenship				American Minority						
		United States		Foreign		Black		Hispanic		Asian		
#	%	#	%	#	%	#	%	#	%	#	%	
TOTAL	91		38	41.8%	53	58.2%	8	8.9%	3	3.3%	1	1.1%
Male	43	47.2%	18	47.4%	25	47.2%	2	4.7%	0	0.0%	1	2.3%
Female	48	52.7%	21	55.3%	27	51.0%	6	12.5%	3	6.2%	0	0.0%

Department/Center	Graduate Students	Post-doctoral Fellows	Visiting Scholars	Exchange Students
Medicinal Chemistry	24	9	1	0
Pharmaceutics/CDD&CDIR&E	34	5	3	16
Pharmacodynamics	8	3	0	0
Pharmacy Health Care Administration/ CRPC	25	1	4	10
Pharmacy Practice/CPG	No Grad. Prog.	6	0	0
COLLEGE TOTAL	91	24	8	26

CDD = Center for Drug Discovery; CDIR&E = Center for Drug Interaction Research & Education
 CRPC = Center for Research in Pharmaceutical Care, CPG = Center for Pharmacogenomics

Class	GPA	GRE			TOEFL	TSE
		Verbal	Quant.	Total		
COLLEGE TOTAL (91)*	3.41	501	679	1180	526	50
FY 04/05 Class (27)	3.31	510	698	1208	432	40

* numbers in parenthesis denote student population

Table 6: Post-doctoral Fellows and Visiting Scholars

Department/Center	Name	Title	Preceptor
Medicinal Chemistry	Bharti, Neelam	PD	Bergeron
	Diaz, Beatriz	VS	Schulman
	Gridley, Kelly	PD	Haskell-Luevano
	McManis, James	PD	Bergeron
	Park, Jeong Hyun	PD	Bergeron
	Perjesi, Pal	PD	Prokai
	Wang, Li-Quan	PD	James
	Wilczynski, Andrzej	PD	Haskell-Luevano
	Xiang, Zhimin	PD	Haskell-Luevano
	Zharikova, Altevina	PD	Prokai
Pharmaceutics/ Center for Drug Discovery & Center for Drug Interaction Research and Education	Choi, Young-kook	PD	Song
	Ji, Fubao	VS	Bodor
	Kiman, Kim	VS	Derendorf
	Liu, Yanhong	VS	Derendorf
	Lu, Yuanqing	PD	Song
	Madabushi, Rajanikanth	PD	Derendorf
	Rao, Gururaj Ananda	PD	Hughes
	Zhang, Bin	PD	Song
Pharmacodynamics	Hebert, Nicole	PD	Peris
	von Reitzenstein, Marcela	PD	Keller-Wood
	Fang, Xi (Jessie)	PD	Liu
Pharmacy Health Care Administration/ Center for Research in Pharmaceutical Care	Chowwanapoonpohn, Hathaikan	VS	Lipowski
	Mattenklotz, Anna	VS	Winterstein
	Nantavitayaporn, Arpapat	VS	Lipowski
	Ratchina, Svetlana	VS	Hartzema
	Snedecor, Sonya	PD	Hartzema
Pharmacy Practice/ Center for Pharmacogenomics	Beitelshees, Amber	PD	Johnson
	Formea, Christine	PD	Karlix
	Tovar, John	PD	Gums
	Sicard, Devin	PD	Taylor
	Skipper, Alexandra	PD	Annis
	Ward, Michael	PD	Weitzel

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 26 students with more than half of them (65.4%) coming from Germany (**Table 7**).

Table 7: Exchange Students

Department	Student Name	Preceptor	Home Country
Pharmaceutics/ Center for Drug Discovery & Center for Drug Interaction Research and Education	Dartsch, Theresa	Derendorf	Germany
	Dizayee, Sara	Derendorf	Germany
	Funcke, Fabienne	Hughes	Germany
	Füth, Matthias	Derendorf	Germany
	Haefele, Christine	Butterweck	Germany
	Huebner Melanie	Derendorf	Germany
	Ihle, Franziska	Doering	Germany
	Kipke, Sandra	Butterweck	Germany
	Klett, Vanessa	Derendorf	Germany
	Kremser, Eva	Butterweck	Germany
	Ludwig, Doerthe	Derendorf	Germany
	Luh, Clara	Hughes	Germany
	Meyer, Martin	Hughes	Germany
	Riek, Helen	Sullivan	Germany
	Rubner, Anke	Butterweck	Germany
Sthapit, Philos	Butterweck	Germany	
Pharmacy Health Care Admin/ Center for Research in Pharmaceutical Care	Centellas, Casado	Ried	Spain
	Chopra, Balesh	Ried	United Kingdom
	Chowwanapoonpohn, Hathaikan	Lipowski	Thailand
	Davila, Elsa	Ried	France
	Garcia-Diaz, Davinia	Ried	Spain
	Gill, Leela	Ried	United Kingdom
	Mueller-Spaeth, Maren	Ried	Germany
	Ibechukwu, Uzoma	Ried	Nigeria
	Kimfuema-Lutonadio, Sandrine	Ried	Belgium
Supakul, Sakon	Hartzema	Thailand	

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. This year the College received 347 inquiries regarding the 4 different programs (**Table 8**). Three hundred and four of the 347 inquiries (87.6%) came in from e-mail. In this case we send an e-mail reply informing the applicant that they can obtain information regarding the programs and download application materials from the College and UF websites on the World Wide Web (WWW).

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. For FY 04/05 the ORGS sent out 14 letters of this type.

Graduate student application activity for FY 04/05 for each of the departments is illustrated in **Table 8**. The College received 183 completed applications in FY 04/05. Of the 183 completed applications received by the departments, only 40 (or 21.9%) of the applicants were accepted of which 26 students (or 65% of the potential students) will enter our graduate programs for FY 05/06.

Table 8: Departmental Graduate Student Recruitment Activity						
Department	# Requests Sent Out	# Completed Applications	# Applications Accepted	% Accepted	# Entered	% Entered
Medicinal Chemistry	39	29	6	20.7%	2	33.3%
Pharmaceutics	186	111	21	18.9%	16	76.2%
Pharmacodynamics	43	13	3	23.1%	2	66.7%
Pharmacy Health Care Administration	79	30	10	33.3%	6	60.0%
COLLEGE TOTAL	347	183	40	21.9%	26	65.0%

Graduate Student Graduation Activities

During the 04/05 academic year the COP had sixteen students finish their graduate program and earn a Ph.D. degree and two 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 2004 (SUMMER COMMENCEMENT)

Name: **Dr. Brenda Pedersen**
Dissertation Title: *Structure-function Studies of the Carnitine/Choline Acyltransferase Family*
Faculty Mentor: Dr. Donghai Wu, Assistant Professor
Department: Medicinal Chemistry
Previous Degree: B.S. in biochemistry, Florida Institute of Technology

Dr. Pedersen assumed a post-doctoral position at the Mayo Clinic in Jacksonville, Florida.

Name: **Dr. Srikumar Sahasranaman**
Dissertation Title: *Pharmacokinetic and Pharmacodynamic Evaluation of Mometasone Furoate*
Faculty Mentor: Dr. Guenther Hochhaus, Professor
Department: Pharmaceutics
Previous Degree: B.S. in Pharmacy, BITS Pilani, India; M.Sc. in Pharmacy National University of Singapore

Dr. Sahasranaman assumed a position as a senior scientist with Aventis Pharmaceuticals in New Jersey.

Name: **Dr. Brian Sauer**
Dissertation Title: *Medication Use Performance-indicators: A Systems Perspective*
Faculty Mentor: Dr. Charles Hepler, Distinguished Professor
Department: Pharmacy Health Care Administration
Previous Degree: B.S. in Psychology, University of Florida

Dr. Sauer assumed a post-doctoral position in Medical Informatics at the University of Utah/VA, Salt Lake City, Utah.

Name: **Dr. Hao Zhu**
Dissertation Title: *Development of Serum Stable Lipoplex for In-vivo Gene Transfer and Characterization of Coformulation Liposomes for Increased Gene Expression.*
Faculty Mentor: Dr. Sean Sullivan, Professor
Department: Pharmaceutics
Previous Degree: B.S. in Pharmacy, M.S. in Pharmaceutics, West China University of Medical Sciences

Dr. Zhu has assumed a research scientist position at Centocor, Inc. in Malvern, PA..

DECEMBER 2004 (FALL COMMENCEMENT)

Name: **Dr. April Braddy**
Thesis Title: *Increased-throughput Screening of Potential Drug Candidates for Permeation Across Membranes and Estimation of Central Nervous System Bioavailability*
Faculty Mentor: Dr. Laszlo Prokai, Professor
Department: Pharmaceutics
Previous Degrees: B.S. in Microbiology, Clemson University

Dr. Braddy assumed a position as a pharmacologist with the Food and Drug Administration.

Name: **Dr. Christine Joseph**
Dissertation Title: *Design, Synthesis and Characterization of Peptides and Peptidomimetics for Mouse Melanocortin Receptors*
Faculty Mentor: Dr. Carrie Haskell-Luevano, Assistant Professor
Department: Medicinal Chemistry
Previous Degree: B.S. in Chemistry, SUNY-New Paltz

Dr. Joseph assumed a post-doctoral position at the Johns Hopkins Medical Institution.

Name: **Dr. Dionne Mayhew**
Dissertation Title: *Measuring Care Quality and Health Outcomes in Patients with Sickle Cell Disease*
Faculty Mentor: Dr. Abraham Hartzema, Professor
Department: Pharmacy Health Care Administration
Previous Degree: B.S. in Chemical Science, Florida State University; MPH Health Education, University of South Florida

Dr. Mayhew assumed a position as a research consultant.

Name: **Dr. John van Nguyen**
Thesis Title: *Syntheses and Metabolic Profiles of Aminopolyamines in the Murine Leukemia L1210 Cells and the Pathogenic Bacterium Pseudomonas Aeruginosa*
Faculty Mentor: Dr. Raymond Bergeron, Professor
Department: Medicinal Chemistry
Previous Degrees: B.S. in Chemistry, University of California, Riverside

Dr. Nguyen assumed a post-doctoral position.

Name: **Dr. Sharrel Pinto**
Thesis Title: *American Medical Association's Guidelines on Gifts to Physicians: Assessing Intent to Comply*
Faculty Mentor: Dr. Earlene Lipowski, Associate Professor
Department: Pharmacy Health Care Administration
Previous Degrees: B.S. in Pharmacy, Principal K.M. Kundanani; D.M.M in Marketing Management, N.M.I.M.S.; M.S. in Pharmacy Health Care Administration, University of Toledo

Dr. Pinto assumed an Assistant Professor position at the University of Toledo, College of Pharmacy, Toledo, OH.

Name: **Dr. Edgar Schuck**
Thesis Title: *Pharmacokinetic and Pharmacodynamics of Ciprofloxacin in Simulated Microgravity*
Faculty Mentor: Dr. Hartmut Derendorf, Professor
Department: Pharmaceutics
Previous Degrees: B.S. in Pharmacy, Federal University of Rio Grande do Sul, Brazil; MSc in Pharmacology, Federal Faculty Foundation of Medical Sciences of Porto Alegre, Brazil

Dr. Schuck assumed a position as a Pharmacokineticist at Eisai Research Institute, Wilmington, MA.

Name: **Dr. Virna Schuck**
Thesis Title: *Use of Microdialysis as a Toll to Determine Tissue Distribution of Lipophilic and High Molecular Weight Compounds*
Faculty Mentor: Dr. Hartmut Derendorf, Professor
Department: Pharmaceutics
Previous Degrees: B.S. in Pharmacy and M.S. in Pharmaceutical Sciences, Universidade Federal do Rio Grande do Sul, Brazil

Dr. Schuck assumed a Research Scientist position at Millennium Pharmaceuticals.

Name: **Dr. Amanda Shaw**
Thesis Title: *Interactions of the Growth Hormone Secretory Axis and the Central Melanocortin System*
Faculty Mentor: Dr. William Millard, Professor
Department: Pharmacodynamics
Previous Degrees: B.S. in Biology, University of North Florida

Dr. Shaw assumed a post-doctoral position at the Mayo Clinic in Jacksonville, Florida.

Name: **Dr. Debbie Wilson**
Thesis Title: *Professional Expertise in Pharmacy Technicians*
Faculty Mentor: Dr. Carole Kimberlin, Professor
Department: Pharmacy Health Care Administration
Previous Degrees: B.A. in French, University of Tennessee; M.A. in Linguistics, University of Florida

Dr. Wilson assumed a position as a Lab Coordinator and Facilitator at the Jacksonville Campus for a College of Pharmacy course.

Name: **Dr. Julia Winkler**
Thesis Title: *Pharmacokinetics and Pharmacodynamics of Corticosteroid Prodrugs and Soft Drugs*
Faculty Mentor: Dr. Hartmut Derendorf, Professor
Department: Pharmaceutics
Previous Degrees: M.S. in Pharmacy, Free University of Berlin

Dr. Winkler assumed a position with Actelion Pharmaceuticals in Allschwil, Switzerland.

MAY 2005 (SPRING COMMENCEMENT)

Name: **Dr. Vaishali Dixit**
Thesis Title: *Inactivation of Glutathione S Transferase Zeta by Dichloroacetic Acid*
Faculty Mentor: Dr. Margaret James, Professor
Department: Medicinal Chemistry
Previous Degrees: B.S. in Pharmacy, University of Pune

Dr. Dixit assumed a post-doctoral position at the University of Washington.

Name: **Dr. Michael Taylor**
Thesis Title: *Prostate Cancer Clinical Practice Guidelines: Clinical and Economic Outcomes*
Faculty Mentor: Dr. Abraham Hartzema, Professor
Department: Pharmacy Health Care Administration
Previous Degrees: PharmD., University of Florida

Dr. Taylor has assumed a position as a contract epidemiologist at Genentech in San Francisco, California.

Master's in Pharmaceutical Science Degrees Conferred

AUGUST 2004 (SUMMER COMMENCEMENT)

Name: **Mr. Yohan Choi**
Faculty Mentor: Dr. Dong Hai Wu, Assistant Professor
Department: Medicinal Chemistry
Previous Degree: B.S. in Microbiology, University of Florida

Mr. Choi's employment after graduation is unavailable at this time.

MAY 2005 (SPRING COMMENCEMENT)

Name: **Ms. Dora Mouallem**
Faculty Mentor: Dr. Richard Segal, Professor; Dr. Donna Berardo, Associate Professor
Department: Pharmacy Health Care Administration
Previous Degrees: B.S. in Pharmacy, Santa Maria University

Ms. Mouallem returned to her home country of Venezuela to work as a pharmacist.

Forensic Sciences Master's Degrees Conferred

Since the start of the Forensics program there have been a total of 76 students who have graduated with either their Masters or Certificate from the Drug Chemistry and DNA & Serology concentrations. Of the 76 graduates 63 (82.9%) have been from the DNA & Serology program and only 13 (17.1%) from the Drug Chemistry program. Within the DNA & Serology program 16 of the 63 graduates (25.4%) received their Masters while 47 graduates (74.6%) received their certificate. Within the Drug Chemistry program 4 of the 13 graduates (30.8%) received

their Masters and 9 graduates (69.2%) received their certificate. The list below shows those students who have graduated with their Masters in the COP concentrations for FY 04/05.

Masters Graduates in the Forensic Sciences Programs		
Commencement Date	Name	Program
Summer 2004	Clay, Erin	DNA and Serology
	Matsuoka, Cathy	DNA and Serology
	Toner, Jim	Drug Chemistry
Fall 2004	Benson, Susanne	DNA and Serology
	Brock, Gregory	DNA and Serology
	Hamlin, Cameron	DNA and Serology
	Dawson, Emily	Drug Chemistry
Spring 2005	Ackerman, David	DNA and Serology
	Chenoweth, Sarah	DNA and Serology
	Johnson, Lindsey	DNA and Serology
	Lewis, Barbara	DNA and Serology
	De Rupo, Gwendolyn	Drug Chemistry
	Emerson, Barbara	Drug Chemistry

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 for FY 04/05 by supporting forty-four graduate student stipends; twelve students received support from extramural research grants; four graduate students received funding from their home government; and five graduate students funded their own graduate education this year. Nine graduate students received Grinter Awards as a supplement to their state funding. Graduate stipends ranged from \$11,973 to \$21,013 with an average overall stipend of \$15,573 for all graduate students.

Fifteen graduate student fellowship proposals totaling \$522,429 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, Pfizer, and the Endocrine Society.

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. The College of Pharmacy received three additional *Alumni Scholarships* for FY 04/05. 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 recipients of the

Alumni Scholarships are:

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 Jennifer 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

Mr. Justin Grobe	Pharmacodynamics	FY 01/02
Ms. Dionne Mayhew	Pharmacy Health Care Administration	FY 01/02
Mr. Michael Mueller	Pharmacy Health Care Administration	FY 01/02
Mr. Michael Taylor	Pharmacy Health Care Administration	FY 01/02

Named Presidential Fellowship

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 Scholarship

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 Award

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 up to 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 68.4% acceptance of *Grinter Awards* by prospective students. Forty-two 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 1240 and a TOEFL of 624.

Table 9: Statistical Summary of Grinter Program – 1988 to Present			
Statistic	Overall	%	04/05 Class
Total number offered	95		5
Total number accepted	65	68.4%	4
Total number graduated	27	42%	
Total number still enrolled: past & present	26	40%	
Number of active awardees - FY 04/05	13	20%	4
Grade Point Average (GPA)	3.55		3.55
Graduate Record Exam -GRE (Verbal + Quant.)	1240		1200
Test of English as a Foreign Language (TOEFL)	624		637

In FY 04/05 the COP offered 3 new *Grinter Awards*. The grade point averages and the Graduate Record Exam (GRE) scores were about the same as the overall group mean (**Table 9**). The recipients of *Grinter Awards* for FY 04/05 are:

Mr. Christian Hampp	Pharmacy Health Care Administration
Ms. Elizabeth Potocka	Pharmaceutics
Ms. Zhimin Li	Pharmacodynamics

18th Annual Research Showcase and Awards Recognition Day

A number of graduate students, post-doctoral fellows and undergraduate 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**.

Perry A. Foote Small Grants Program

To both develop and promote research opportunities in Outcomes Research and Pharmacoeconomics, Dr. Abraham Hartzema, Perry A. Foote Eminent Scholar in Health Outcomes Research (Pharmacy Health Care Administration) initiated the Perry A. Foote Small Grants Program in Outcomes Research and Pharmacoeconomics during FY 01/02. Three graduate students in Pharmacy Health Care Administration received funding this year. They are:

Ms. Amanda Ballentine	<i>“Measuring Organization Sponsorship Credibility: The Application of Source Credibility Theory in Determining the Most Effective Advocacy Advertisement Sponsor”</i>	\$5,000
Mr. Tobias Gerhard	<i>“Diuretic Therapy and the α-Adducin Polymorphism: Analysis of Gene-Drug Interactions in Nested Case-Control Studies”</i>	\$5,000
Ms. Annesha White	<i>“The Cost Effectiveness of Renagel vs. Phoslo in the Treatment of End Stage Renal Disease”</i>	\$1,550

Special Awards for Graduate Students

Mr. Edgar Schuck, a graduate student in the Department of Pharmaceutics under the mentorship of Dr. Hartmut Derendorf, was awarded the 2004 American Association of Pharmaceutical Scientists (AAPS) Graduate Student Award in Pharmacokinetics, Pharmacodynamics, Drug Metabolism and Clinical Sciences. He was one of six winners nationwide and gave a podium presentation of his dissertation work at the Annual AAPS Meeting in Baltimore. This award comes with a \$250 cash award, a \$1,000 travel grant, a commemorative plaque and complimentary registration at the AAPS Annual Meeting.

International Student Academic Awards

At the International Student Academic Awards Ceremony held April 21, 2005, in the Reitz Union Auditorium, **three** of the College of Pharmacy’s international graduate students received awards for outstanding academic accomplishment. Each received an award certificate for their performance. The recipients of the **International Student Awards** are:

Mr. Tobias Gerhard	Pharmacy Health Care Administration
Mr. Boman Irani	Medicinal Chemistry
Ms. Sasiporn Sarawek	Pharmaceutics

Graduate Minority Activities

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 of our Pharmacy Health Care Administration Program (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.

Minority Student Awards

The *FAMU Feeder Scholarship Program* is a highly competitive program developed to provide support for highly qualified students to pursue graduate degrees at other institutions within the state of Florida. The FAMU feeder provides up to \$8,000 of annual stipend support for a period of 4 years. **Mr. Karl (Cameron) Schiller**, in the Department of Pharmacy Health Care Administration, received the third year funding of his *FAMU Feeder Scholarship*.

This past year three graduate students received minority funding from the National Institutes of Health. **Ms. April Braddy** was funded from an NIH training grant in the Department of Pharmacology and **Ms. Nilka Rivera-Portalatin** and **Ms. Christine Joseph** received minority student supplemental funding from the NIH. Ms. Braddy and Ms. Portalatin both work with Dr. Laszlo Prokai and Ms. Joseph works with Dr. Carrie Haskell-Luevano.

Meetings and Conferences

This past year five graduate students represented the College of Pharmacy at the AAPS PharmForum that was held at the University of Mississippi on May 23-24, 2005. The students who attended were **Mr. Wouter Driessen**, **Mr. Stephen (Matt) Phipps**, **Ms. Nathalie Toussaint**, **Ms. Leah Villegas**, and **Ms. Elanor Pinto**, all in the Department of Pharmaceutics.

At the forum three of our students gave a presentation. Mr. Wouter Driessen gave a presentation entitled “*Development of Peptide-targeted Lipoplex for Systemic Administration*”. Ms. Nathalie Toussaint presented a poster entitled “*Development of Brain Tumor Organotypic Cultures for Characterizing DNA Polymer/Plasmid Mediated Gene Transfer*” and was awarded a plaque for her poster. Ms. Leah Villegas also presented a poster entitled “*Development of Drug-inducible Geneswitch Targeting Insulin-like Growth Factor System for Treatment of Brain Tumors in Rat Animal Model*” and was awarded a prize in the Grant Writing Workshop. All three of these students work with Dr. Sean Sullivan in the Department of Pharmaceutics.

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
2000	\$5,198,041	8	30	\$173,268	6
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

Our faculty members continue to be productive and are making efforts to obtain more extramural support for their individual research efforts. During FY 04/05 the ORGS processed a total of 124 extramural grant or contract applications from the five Departments and our Administrative Office (**Table 11**) for a total of \$127,054,245 in **new** grant dollars. This is a 65% increase in total dollars requested when compared to FY 03/04 (see **Table 12**). The majority (75.8%) 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-four percent of grants submitted were originated outside of the College of Pharmacy. Noteworthy is that all departments in the College were engaged in collaborative grant activity.

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). In FY 04/05 our research funding dollars totaled \$6,873,248 with 80 individual awards coming into the College of Pharmacy. This represents a 9.62% decrease in total research funding dollars and a 20% decrease in number of awards from FY 03/04.

Departmental comparisons show that Medicinal Chemistry continues to bring in the majority of research dollars within the COP (38.6% for FY 04/05 and 41.5% for FY 00-04). Noteworthy is that the Department of Pharmacy Health Care Administration showed the largest improvement in total dollars brought into the College over FY 03/04 at 280.9% (\$100,000 in FY 03/04 versus \$380,933 in FY 04/05). While Pharmacodynamics showed a substantial increase of 71.6% (\$812,823 in FY 03/04 versus \$1,394,709 in FY 04/05), Medicinal Chemistry, Pharmaceutics and Pharmacy Practice all experienced a decrease in total funding over FY 03/04; 20.3%, 20.8% and 31.9% 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 Tacachale, the Veteran's Administration Hospital, and Shands-Jacksonville and makes up 6.5% of total extramural revenues in the College. In FY 04/05 **ADMINISTRATIVE** funds showed a 54.3% decrease from the previous academic year.

The combination of a 9.6% decrease in **RESEARCH** dollars and a 54.4% decrease in **ADMINISTRATIVE** funds provided the College of Pharmacy with a 15% decrease overall in FY 04/05 from FY 03/04 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	94	30	124
Total Amount	\$82,439,809	\$44,614,436	\$127,054,245
Administration			
# Proposals	1	0	1
Total Amount	\$71,028	\$0	\$71,028
Medicinal Chemistry			
# Proposals	12	4	16
Total Amount	\$6,640,769	\$2,967,909	\$9,608,678
Pharmaceutics			
# Proposals	29	6	35
Total Amount	\$17,662,229	\$8,199,002	\$25,861,231
Pharmacodynamics			
# Proposals	21	10	31
Total Amount	\$7,678,533	\$11,717,668	\$19,396,201
Pharmacy Health Care Admin.			
# Proposals	16	5	21
Total Amount	\$7,297,073	\$3,059,790	\$10,356,863
Pharmacy Practice			
# Proposals	15	5	20
Total Amount	\$43,090,177	\$18,670,067	\$61,760,244

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 03/04			
# proposals	95	31	126
Total Amount	\$50,381,093	\$32,260,975	\$82,642,068
FY 04/05			
# proposals	94	30	124
Total Amount	\$82,439,809	\$44,614,436	\$127,054,245

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 00/01 to FY 04/05

Department	00/01	01/02	02/03	03/04	04/05	00-04	% of total
COLLEGE TOTAL	\$5,225,139	\$6,022,123	\$6,488,151	\$7,604,542	\$6,873,248	\$6,442,641	100.00%
IDC	\$1,117,317	\$1,150,387	\$1,347,223	\$1,633,280	\$1,413,595	\$1,332,360	100.00%
# grants	100	111	120	100	80	102.2	
%IDC	27.20%	23.60%	26.21%	27.35%	20.57%	24.99%	
Medicinal Chemistry	\$2,009,060	\$2,630,607	\$2,744,228	\$3,323,351	\$2,650,154	\$2,671,480	41.47%
IDC	\$442,281	\$596,236	\$619,296	\$731,661	\$658,113	\$609,517	45.75%
# grants	11	18	20	23	13	17	
%IDC	28.20%	29.30%	29.14%	28.20%	24.83%	28.71%	
Pharmaceutics	\$862,445	\$1,356,955	\$1,097,069	\$1,388,138	\$1,099,022	\$1,160,726	18.02%
IDC	\$181,616	\$165,688	\$232,563	\$235,755	\$81,687	\$179,462	13.47%
# grants	29	33	31	31	25	29.8	
%IDC	26.70%	13.90%	26.90%	20.50%	7.43%	22.00%	
Pharmacodynamics	\$730,216	\$587,602	\$768,811	\$812,823	\$1,394,709	\$858,832	13.33%
IDC	\$192,123	\$146,552	\$225,750	\$233,559	\$361,146	\$231,826	17.40%
# grants	13	10	10	8	15	11.2	
%IDC	35.70%	33.20%	41.57%	40.30%	25.89%	37.69%	
Pharmacy Health Care Administration	\$384,499	\$128,641	\$95,940	\$100,000	\$380,933	\$218,003	3.38%
IDC	\$63,867	\$2,448	\$10,248	\$0	\$34,393	\$22,191	1.67%
# grants	13.5	13	12	7	11	11.3	
%IDC	19.90%	1.90%	11.96%	0.00%	9.03%	8.44%	
Pharmacy Practice	\$1,238,919	\$1,318,318	\$1,782,103	\$1,980,230	\$1,348,430	\$1,533,600	23.80%
IDC	\$237,430	\$239,463	\$259,366	\$432,305	\$278,258	\$289,364	21.72%
# grants	33.5	37	47	31	16	32.9	
%IDC	23.70%	22.20%	17.03%	27.90%	20.64%	22.71%	

IDC = indirect costs

Table 14: Total Extramural Support - FY 00/01 to FY 04/05

Dept.	00/01	01/02	02/03	03/04	04/05	Average 00-04
COLLEGE TOTAL	\$6,748,278	\$6,996,435	\$8,028,063	\$8,653,866	\$7,352,272	\$7,555,783
IDC	\$1,121,863	\$1,154,932	\$1,370,155	\$1,634,572	\$1,413,595	\$1,339,023
# grants	109	120	128	109	86	110.4
%IDC	19.90%	19.80%	20.58%	23.29%	19.23%	20.09%
RESEARCH	\$5,225,139	\$6,022,123	\$6,488,151	\$7,604,542	\$6,873,248	\$6,442,641
IDC	\$1,117,318	\$1,150,387	\$1,347,233	\$1,663,279	\$1,413,595	\$1,338,362
# grants	100	111	120	100	80	102.2
%IDC	27.20%	23.60%	26.21%	28.00%	20.57%	26.25%
ADMINISTRATION	\$1,523,139	\$944,312	\$1,539,912	\$1,049,324	\$479,024	\$1,107,142
IDC	\$4,545	\$4,545	\$22,932	\$1,292	\$0	\$6,663
# grants	9	9	8	9	6	8.2
%IDC	0.30%	0.50%	1.51%	0.10%	0.00%	0.48%

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 dollars. Federal dollars were earmarked entirely for research purposes and showed a 14.6% drop this year from FY 03/04. This drop is largely the result of the loss of the Superfund Program (P42) grant in Medicinal Chemistry and the completion of the NIH construction grant (CO6) from FY 03/04 to build out the ground floor of the Pharmacy wing. Of note is that the Superfund Program grant was next to be funded and has been resubmitted to the agency with high expectations of being funded this coming year (FY 05/06). Furthermore, Superfund program proposals are only reviewed once a year which adds to the difficulty in maintaining funding continuity.

State dollars were increased by 185.8% in FY 04/05 largely as a result of funding from the Agency for Health Care Administration and increased support from the Department of Citrus. This fiscal year extramural research support from Corporations and Companies showed a 20% drop in the number of awards received and a 31.5% decrease in dollars received compared to FY 03/04. Foundation and Society monies remained steady in FY 04/05 with a 1.05% increase from FY 03/04 despite a 48% reduction in award numbers. The College experienced a 21.6% drop in funding within the “Other” funding category from the previous year. Within this “Other” category are funds that include *Miscellaneous Donor* monies or funds in which faculty members have unrestricted use to support their individual research programs.

Table 15: Comparison by Sponsor

Sponsor Category	FY 03/04		FY 04/05	
	# of Awards	Total Dollars	# of Awards	Total Dollars
Federal Agencies	34	\$5,657,503	33	\$4,830,239
Florida State Agencies	2	\$82,362	4	\$235,380
Corporations and Companies	40	\$1,979,932	32	\$1,357,322
Foundations & Societies	29	\$869,819	15	\$878,980
Other	4	\$64,250	2	\$50,351
Total Comparison	109	\$8,653,866	86	\$7,352,272

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 03/04			FY 04/05		
	Count	Total	IDC	Count	Total	IDC
NIH	33	\$5,425,323	\$1,218,792	25	\$4,250,915	\$1,146,289
U.S. Dept. of Agriculture	1	\$232,180	\$0	1	\$321,318	\$0
U.S. Dept. of Veteran Affairs				7	\$258,005	\$0
Total Federal Agencies	34	\$5,657,503	\$1,218,792	33	\$4,830,239	\$1,146,289

IDC = indirect costs

Table 17: State Agencies Comparison						
Sponsor	FY 03/04			FY 04/05		
	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	1	\$24,000	\$0	2	\$100,000	\$4,762
Total Florida State Agencies	1	\$24,000	\$0	4	\$235,380	\$10,506

IDC = indirect costs

Table 18: Corporations and Companies Comparison						
Sponsor	FY 03/04			FY 04/05		
	Count	Total	IDC	Count	Total	IDC
Abbott Labs.				1	\$23,912	\$4,782
AstraZeneca	1	\$23,500	\$4,500			
Bayer AG				1	\$28,056	\$4,676
ChelaDerm	3	\$89,141	\$0			
Eon Laboratories	9	\$79,167	\$8,061	9	\$87,083	\$7,917
Geltex Pharmaceuticals Corp.	5	\$1,093,750	\$218,750	3	\$656,250	\$131,250
Glaxo Smith Kline, Inc.	9	\$141,425	\$22,289	5	\$101,738	\$20,348
Hoffman LaRoche, Inc.	1	\$37,000	\$0			
IVAX Corp.	2	\$236,420	\$35,834	2	\$134,550	\$12,232
MAP Pharmaceuticals				1	\$27,715	\$5,543
Merck & Company, Inc.	5	\$102,553	\$20,511			
Novartis - United States				1	\$36,174	\$7,235
Pfizer, Inc.	1	\$37,500	\$7,500	3	\$168,831	\$13,766
Pharma-Forschung, Inc.	1	\$10,000	\$909	1	\$10,000	\$2,000

Table 18: Corporations and Companies Comparison (con't)						
Sponsor	FY 03/04			FY 04/05		
	Count	Total	IDC	Count	Total	IDC
Sankyo Company, Ltd.	1	\$74,976	\$14,995			
Sanofi-Synthelabo Research US				1	\$4,500	\$0
Scios Nova, Inc.				1	\$22,312	\$4,462
Sepracor, Inc.	1	\$22,500	\$4,500			
Solvay Pharmaceuticals				1	\$15,200	\$3,040
Tokiwa Phytochemical Company				1	\$30,000	\$6,000
United Therapeutics Corp.				1	\$11,000	\$2,200
West Pharmaceutical Services	1	\$32,000	\$6,400			
Total Corporations & Companies	40	\$1,979,932	\$344,249	32	\$1,357,322	\$225,451

IDC = indirect costs

Table 19: Foundations & Societies Comparison						
Sponsor	FY 03/04			FY 04/05		
	Count	Total	IDC	Count	Total	IDC
Am. Assoc. Coll. Pharmacy	2	\$11,000	\$0			
Am. Assoc. Pharm. Sci.	2	\$1,000	\$0	1	\$500	\$0
Am. Coll. Clin. Pharm.				1	\$20,000	\$0
Am. Diabetes Association	1	\$100,000	\$13,043			
Am. Fdtn. for Pharm. Ed.	5	\$29,750	\$0	3	\$11,000	\$0
Am. Health Assistance Fdtn.				1	\$90,000	\$0
Am. Heart Assoc. - Fl.	3	\$147,500	\$7,273	2	\$39,000	\$0
Children's Hosp. New Orleans	1	\$13,284	\$2,656			
Doctor's Memorial Hospital				1	\$65,383	\$13,137
Inst. Adv. Comm. Pharm.	1	\$14,103	\$0			
Juvenile Diabetes Foundation	1	\$150,000	\$13,636	1	\$150,000	\$13,636
Nat'l Kidney Fdtn. of Florida	1	\$20,000	\$0	1	\$20,000	\$0
Shands Teaching Hospital	5	\$60,182	\$1,293	1	\$305,208	\$0
Suwannee River Area AHEC	1	\$109,000	\$0	1	\$109,000	\$0
UF Foundation	2	\$45,000	\$0			
UF Research Foundation	3	\$99,000	\$0	2	\$68,889	\$0
United Negro College Fund	1	\$70,000	\$0			
Total Foundations & Societies	29	\$869,819	\$37,902	15	\$878,980	\$26,773

IDC = indirect costs

Table 20: Other Comparison

Sponsor	FY 03/04			FY 04/05		
	Count	Total	IDC	Count	Total	IDC
Miscellaneous Donors	3	\$14,250	\$0			
Univ. of Minnesota	1	\$50,000	\$15,517			
Nottingham City Hosp.				2	\$50,351	\$4,577
Total Other	4	\$64,250	\$15,517	2	\$50,351	\$4,577

IDC = indirect costs

Licensing and Royalty Income

Through licensing agreements and the sale of stock the College of Pharmacy generated a total of \$175,010 in revenues during FY 04/05. These monies were distributed to the College as outlined in the UF IP distribution policy.

Undergraduate 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 **2** professional students secure extramural stipends from **2** different sources. **Mr. Jason Karnes** received a \$4,328 stipend from the **American Heart Association (AHA)** for his research project entitled "*Association of Genetic Polymorphisms in Candidate Genes of the Renin-angiotensin System with Blood Pressure Response Variation and Clinical Outcomes*". Mr. Karnes is working under the supervision of Dr. Julie Johnson, Professor in the Department of Pharmacy Practice. **Ms. Jillian Stewart** received a \$5,000 stipend from the **American Foundation for Pharmaceutical Education (AFPE)** for her research project entitled "*Role of Estrogenic Compounds in the Transcription of Components of the Renin-angiotensin System that Regulate the Production and Action of Angiotensin 1-7*". Ms. Stewart is working under the supervision of Dr. Michael Katovich, Professor in the Department of Pharmacodynamics.

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 formal student applications. Each student received \$4,788 for program support.

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

Allison Cammarata is working with Dr. Leslie Hendeles, Professor in the Department of Pharmacy Practice on her project entitled “*The Impact of Dosimeter Measurement on Airway Responsiveness to Methacholine*”.

Julie Cromer is working with Dr. Issam Zineh, Assistant Professor in the Department of Pharmacy Practice on her project entitled “*Effect of an HMG-CoA Reductase Inhibitor on Serum Leptin and IP-10 Concentrations in Early Atherosclerosis*”.

Joel McConkey is working with Dr. Douglas Ried, Professor in the Department of Pharmacy Health Care Administration on his project entitled “*Metabolic Monitoring of Veterans with Schizophrenia Taking Second-generation Antipsychotics*”.

Cynthia Trespacios is working with Dr. Earlene Lipowski, Associate Professor in the Department of Pharmacy Health Care Administration on her project entitled “*The Reliability and Consistency of Information Regarding Drug Interactions*”.

Yitsung (Mike) Wang is working with Dr. Sihong Song, Assistant Professor in the Department of Pharmaceutics on his project entitled “*Construction and Evaluation of Regulatable Gene Therapy for Type 1 Diabetes Mellitus*”.

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 (PharmD.) 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

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

U.S.

1. University of Florida
2. Purdue University
3. Ohio State University
4. University of Wisconsin
5. University of Arizona
6. University of Minnesota
7. University of Illinois at Chicago
8. University of Maryland at Baltimore
9. University of North Carolina
10. Rutgers University

8th U.S.-Thai Pharmacy Education Consortium Meeting

The U.S.-Thai Consortium Meeting was held September 24 - 25, 2004 at the Embassy Suites Hotel in Chicago, IL. This meeting was attended by Dr. William Millard, Executive Associate Dean and Dr. Donna Berardo, Associate Professor of Pharmacy Health Care Administration. The theme of the Meeting was "A Celebration of a Decade of Collaboration." in which many of the existing and future collaborative programs were outlined and discussed by US and Thai colleagues. Following this meeting a team of faculty from Silpakorn University visited our campus (see below, **Visiting Faculty**).

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 had one new Thai student join our program although she came on her own funding and not as a Royal Thai Scholar.

Table 22: Thai Students

Name	THAI Pharmacy College	Date Entered
Pharmacy Health Care Administration Ph.D. Program		
1. Ms. Penkarn Kanjanarat (Bomb)*	Chiang Mai	August, 2000
2. Mr. Sawaeng Watcharathanakij	Mahidol	August, 2002
Pharmaceutics Ph.D. Program		
3. Ms. Sasiporn Sarawek	Chiang Mai	January, 2003
4. Ms. Pattaraporn Vanachayangkul **	Chiang Mai	August, 2004

* the name in parenthesis indicates the abbreviated name selected by the student

** not a Royal Thai Scholar

Visiting Faculty

The College of Pharmacy had several visitors from Thailand during the last year. From October 1 through October 4, 2004 The College of Pharmacy was visited by a team of pharmacy and information technology faculty from Silpakorn University Faculty of Pharmacy, Nathon Pathorn, Thailand. Dr. Sindhchai Keokitichai, Dean, Faculty of Pharmacy; Dr. Verayuth Lertnattee, Associate Dean for Information Technology; Dr. Sathit Niratisai, Scholar of Medicinal Chemistry, and two Scholars in Biotechnology and Genomics; Dr. Suang Runpragatphan and Wisit Tangkeangsirisin met with many members of the UF College of Pharmacy to discuss ongoing and potential collaborative activities related to pharmacy education, the WPPD program and our Masters Programs in Forensic Sciences. In February of 2005 Dr. Sindhchai Keokitichai, Dean of the Faculty of Pharmacy at Silpakorn University, visited with Dean Riffée, Dr. Millard and Dr. Ian Tebbett to update the college on the Forensic Sciences initiative.

In April of 2005 the College received a visit from faculty from Chiang Mai University. Dr. Jakkapan Sirithanyalug, Associate Professor and Associate Dean of Research and Graduate Study Affairs, Dr. Busban Sirithanyalug, Associate Professor and Director of the University Pharmacy and Associate Professor Siripon Okonogi met with Dean Riffée and Dr. Millard to discuss further education and research collaboration between the two universities, specifically with the Department of Pharmaceutics.

The College also had three visiting students from Thailand. Within the Department of Pharmacy Health Care Administration Dr. Earlene Lipowski supervised two visiting students, Ms. Arapat Chowwanapoonpohn and Hathaikan Chowwanapoonpohn, and Dr. Abraham Hartzema supervised one visiting student, Sakon Supakul.

ORGS Coordinated Events for the COP

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 22, 2004 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 124 faculty, staff and students. At the reception this year 24 new graduate students, 16 new post-doctoral fellows and a number of research associates and visiting scientists were introduced to the college.

Annual Research Showcase and Awards Recognition Day

The 18th Annual Research Showcase and Awards Recognition Day took place on Thursday, April 14, 2005, at the University of Florida College of Pharmacy. A program booklet (**Appendix C**) is included that outlines the days events, 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 three sponsors. **Dr. Robert G. and Maria Bell** of Palm Harbor, Florida and Ph.D. class of 1988 was the major sponsor with a \$3,500 donation. **Dr. Francisco M. and Luisa Alvarez** of Fort Lauderdale and Ph.D. class of 1981 sponsored the poster competition with a \$600 donation. **Dr. Robert A. and Phyllis Levitt** of Boca Raton and Gainesville, Florida sponsored the *Levitt Division* of the Oral Competition with a \$500 gift. Dr. Levitt and his wife have sponsored this portion of the competition since 1993.

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: **Dr. Maureen McKenzie** (CEO, Delali BioTechnologies, LLC, Anchorage, AK); **Dr. Eric Tomlinson** (President and CEO, Altea Therapeutics, Tucker, GA); **Dr. Wolfgang "Jake" Streit** (Professor, Department of Neuroscience, College of Medicine, University of Florida); and **Dr. Krista Vandeborne** (Associate Professor and Chair, Department of Physical Therapy, College of Public Health and Health Professions, University of Florida).

The winners of the oral competition are:

Senior Division – winner

Ms. Ke Ren Pharmaceutics \$600 cash award
Title: “*Mechanisms Underlying α 7 Nicotinic Receptor Mediated Cytoprotection*”

Senior Division – winner

Mr. Aleksandar Todorovic Medicinal Chemistry \$600 cash award
Title: “*Discovery of Potent mMC1R Agonists with Prolonged Activity at Human Melanocytes*”

Senior Division – finalist

Mr. Boman Irani Medicinal Chemistry \$300 cash award
Title: “*In Vivo Feeding Effects of Melanocortin Ligands Possessing Mixed Pharmacology at the Melanocortin 3 and 4 Receptors*”

Junior Division – winner

Mr. James Sacco Medicinal Chemistry \$600 cash award
Title: “*Sulfonation of Environmental Chemicals and Their Metabolites in the Polar Bear (Ursus Maritimus)*”

Junior Division – finalist

Mr. Wouter Driessen Pharmaceutics \$300 cash award
Title: “*Development of Peptide-targeted Lipoplex for Systemic Administration*”

Junior Division – finalist

Ms. Bettina Proneth Medicinal Chemistry \$300 cash award
Title: “*Characterization of Melanocortin-4-Receptor Mutations Associated with Severe Human Obesity*”

Levitt Division – winner

Mr. Tobias Gerhard Pharmacy Health Care Administration \$600 cash award
Title: “*Potential Benefit of Nesiritide after Adult Open Heart Surgery*”

Levitt Division – finalist

Mr. Michael Taylor Pharmacy Health Care Administration \$300 cash award
Title: “*Clinical and Economic Outcomes of Prostate Cancer Treatment Strategies*”

For the poster competition this year we had 36 posters from graduate students, pharmacy students and post-doctoral fellows on display in the Reception Area of the Health Profession, Nursing and Pharmacy Building (HPNP). The posters were manned between 9:30 AM and 11:30 AM when individual judging took place. The winners in each of the divisions received a \$300 cash award and a commemorative plaque.

The poster judges were: **Dr. Diane Beck** (Director, Educational Initiatives, College of Pharmacy, University of Florida); **Dr. Robert Bell** (President and CEO, Drug & Biotechnology Development, Clearwater, FL); **Dr. Taimour Langaee** (Research Assistant Professor, Department of Pharmacy Practice, College of Pharmacy, University of Florida); **Dr. Sally Litherland** (Assistant Professor, Department of Pathology, College of Medicine, University of Florida); **Dr. Carey Mobley** (Assistant Professor, Department of Pharmaceutics, College of Pharmacy, University of Florida); **Dr. Neil Rowland** (Professor and Chair, Department of Psychology, College of Liberal Arts and Sciences, University of Florida).

The winners of the poster competition are:

Graduate Student Division – winner

Ms. Nathalie Toussaint Pharmaceutics \$300 cash award
Title: “*Development of Brain Tumor Organotypic Cultures for Characterizing DNA Polymer/Plasmid Mediated Gene Transfer*”

Graduate Student Division – winner

Ms. Preeti Yadava Pharmaceutics \$300 cash award
Title: “*Pharmaceutics of siRNA Delivery*”

Pharmacy Student Division – winner

Ms. Angela Hatter Pharmacodynamics \$300 cash award
Title: “*Evaluation of Novel Anti-inflammatory Activity of Sigma Receptor Ligands in Brain Immune Cells*”

Pharmacy Student Division – winner

Ms. Stormy Uy St. Pete Campus \$300 cash award
Title: “*A Retrospective Study of Drotrecogin Alfa (activated) for the Treatment of Severe Sepsis*”

Post-doctoral Fellow Division – winner

Dr. Li-Quan Wang Medicinal Chemistry \$ 300 cash award
Title: “*Sulfotransferase 2A1 Forms Estradiol-17-sulfate and Celecoxib Switches the Dominant Product from Estradiol-3-sulfate to Estradiol-17-sulfate*”

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 edicts regarding the utilization of research space in the future.
- **Renovation of Existing Space:** The Executive Associate Dean served on the Pharmacy Renovation Committee as the COP representative to provide comments to the architects, engineers and construction personnel during Phase IIB of the College's renovation project of existing research space. This committee met monthly throughout the year while the Ground floor of the College went through renovation. Pharmacy Practice research faculty members, the Center for Pharmacogenomics departmental and research staff, students and student members moved into the newly renovated space on May 6, 2005.

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.
- **HSC Animal Advisory Committee:** This committee met twice times throughout the year to discuss relevant issues related to staffing, budgetary issues and operations of the Health Science Center Animal Research Quarters.
- **Anatomical Specimen Task Force:** This committee met twice throughout the year to consider current and future polices 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.
- **Search Committee for OTL:** The Executive Associate Dean reviewed applications, interviewed candidates and assisted in the selection of two new Assistant Directors within the Office of Technology Licensing (OTL).
- **Internal Advisory Board – McKnight Brain Institute (MBI):** The Executive Associate Dean continues to serve on this advisory board which is involved in helping direct future initiatives of the MBI.
- **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 Spring 2005 (April) National Advisory Board Meetings. The Fall 2004 Advisory meeting was cancelled because of hurricane activity at that time.
- **AACP Annual Meeting:** The Executive Associate Dean attended the 2004 AACP Annual Meeting in Salt Lake City, UT from July 10th to July 15th, 2005.
- **AACP Interim Meeting:** The Executive Associate Dean attended the 2005 AACP Interim Meeting in Washington DC from February 7th to February 9th, 2005.
- **SRA International Meeting:** The Program Assistant attended the 2004 Annual Society of Research Administrators (SRA) International Meeting in Salt Lake City, UT from October 23rd to October 28th, 2004.
- **SRA Western Meeting:** The Program Assistant attended the 2005 Society of Research Administrators (SRA) Southern Section Meeting in Tampa, FL on April 16th, 2005.

Appendices

Section

A = Letter to Graduate Applicants

B = Complete Listing of Extramural Support by Department and Faculty

C = 18th 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) 273-6268, 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) 392-9768, 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.

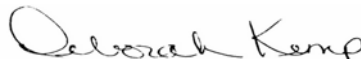
If we can be of further assistance to you please call us at (352) 273-6301. Again, thank you for your interest in our college at the University of Florida. We look forward to hearing from you and receiving your application forms.

Respectfully,



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

Respectfully,



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

Complete Listing of Extramural Support in the COP for FY 04/05

MEDICINAL CHEMISTRY

Faculty	Award Amount	Number	Agency	Project Title
Raymond Bergeron	\$656,250	3	Geltex Pharmaceuticals, Inc.	Polyamine Analogs, Their Synthesis & Their use as Human Pharmaceuticals.
	\$591,234	1	National Institute of Health	Oral Iron Chelators Predicated on Desferrithocin.
Carrie Haskell-Luevano	\$100,000	1	American Diabetes Association	Human Melanocortin-4 Receptor Polymorphisms and Obesity.
	\$20,000	1	American Heart Association	Structure-Activity-Relationship Studies of Pro-Opiomelanocortin Derived Peptides.
	\$47,500	1	American Heart Association	Design Synthesis & Characterization of Melanocortin Receptors Ligands.
	\$260,753	1	National Institute of Health	Characterization of Human Melanocortin-4 Receptor Polymorphisms.
	\$316,974	2	National Institute of Health	Structural Determinants of Neuroendocrine Receptors.
	\$197,970	1	National Institute of Health	Endogenous G-Protein Coupled Receptor Antagonists.
Margaret James	\$14,793	2	National Institute of Health	Dichloroacetate Kinetics, Metabolism and Toxicology.
Laszlo Prokai	\$345,146	2	National Institute of Health	The Role of Quinol in Estrogen Neuroprotection.
	\$266,664	1	National Institute of Health	Survey of Age-Associated Carbonylation of Brain Proteins.

PHARMACEUTICS & CENTERS FOR DRUG DISCOVERY and NEUROBIOLOGY OF AGING

Faculty	Award Amount	Number	Agency	Project Title
Veronika Butterweck	\$10,000	1	Pharma-Forschung	Initial Study on Antidepressant/Anxiolytic Activity of Neurapas (R).
	\$30,000	1	Tokiwa Phytochemical Co.	Anti-stress Effect of Apocynum Venturn L.
Hartmut Derendorf	\$500	1	American Association of Pharmaceutical Sciences	American Association of Pharmaceutical Sciences Student Chapter.
	\$24,000	1	Department of Citrus	Maintenance of Drug Interaction Website.
	\$80,000	1	Department of Citrus	Analysis of Atorvastatin
	\$37,500	1	Pfizer, Inc.	Cefpodoxime in Plasma and Skin Tissue.
	\$100,000	1	Pfizer, Inc.	Pfizer Graduate Fellowship Award
Guenther Hochhaus	\$321,318	1	U.S. Department of Agriculture	Mechanisms of Grapefruit Juice Interactions.
	\$87,083	9	EON Laboratories	Stability and Drug Content of Pharmaceutically Relevant Drug Formulations.
	\$134,550	2	IVAX Corporation	Efficacy and Safety of Talampanel as Adjunctive Therapy in Patients with Partial Seizures.
	\$50,351	2	Nottingham City Hosp. Charity	Collaborative Sample Analysis/Asthma Research Project.

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

Faculty	Award Amount	Number	Agency	Project Title
Jeff Hughes	\$11,000	1	United Therapeutics Corp.	Liposome Encapsulation of UT-231B to Increase uptake into Tissue Culture Cells.
Sihong Song	\$150,000	1	Juvenile Diabetes Foundation	Anti-inflammatory Serpin Gene Therapy for Preventing Type 1 Diabetes.
Sean Sullivan	\$20,949	1	National Institute of Health	Increased INOS and Reactive Oxygen Species in Diabetic Retinopathy.
	\$45,771	1	National Institute of Health	Targeting the IGF-1 System in Retinal Angiogenesis.

PHARMACODYNAMICS

Faculty	Award Amount	Number	Agency	Project Title
Michael Katovich	\$5,000	1	Am Fdtn. for Pharm. Ed.	Possible Mechanism by Which Estrogen Can Increase the Risk of Cardiovascular Disease.
	\$20,000	1	American Heart Assoc. - FL	Sex Steroid modulation of the Renin-Angiotensin System: Implications for Blood Pressure Control in Pregnancy.
	\$19,000	1	American Heart Assoc. - FL	Attenuation of Experimental Hypertension by Lentiviral Delivery of Tetracycline-regulated Angiotensinogen Antisense.
	\$35,927	1	National Institute of Health	AT2 Receptors in Cardiovascular Control.
	\$43,439	1	National Institute of Health	AT1 Receptor Control in Chronic Hypertension Attenuation.
Maureen Keller-Wood	\$22,258	1	National Institute of Health	Estrogen Influences on Fetal Adrenocorticotropin.
	\$237,829	1	National Institute of Health	Control of Corticotropin During Pregnancy.
	\$259,865	1	National Institute of Health	Cortisol at MR Mediate Fetal Physiologic/Genomic Effects.
Bin Liu	\$291,000	2	National Institute of Health	Combined Dopaminergic Neurotoxicity of Manganese and LPS
	\$63,359	1	Univ. Pennsylvania/NIH	Sleep Apnea: Upper Airway Nerve Injury
	\$15,200	1	Solvay Pharmaceutical, Co.	Effect of D3T in an <i>In Vitro</i> Assay for Parkinson's Disease.
William Millard	\$21,767	1	National Institute of Health	Ethnic Differences in Response to Painful Stimuli.
Joanna Peris	\$269,348	1	National Institute of Health	Time Resolution of Ethanol-induced Neurotransmission.

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

Faculty	Award Amount	Number	Agency	Project Title
Abraham Hartzema	\$65,383	1	Doctors Memorial Hospital	HIT for Medication Safety in Critical Access Hospitals.
	\$33,331	1	Pfizer, Inc	Health Related Quality of Life as a Predictor of Early Treatment Discontinuation.
L. Douglas Ried	\$23,912	1	Abbott Laboratories	Cost Effectiveness of Calcium Channel Blocker-Based and Non-Calcium Channel Blocker-Based Hypertension Treatment Strategies Among Coronary Artery Disease Patients Enrolled in INVEST.
	\$7,750	1	US Dept of Veterans Affairs	A Meta-Analytic Study of the Relationship Between Depression and Post-Stroke Mortality
Rich Segal	120,629	1	Agcy. for Health Care Admin.	Evaluation of Bristol-Myers Squibb-sponsored Disease Management Problems for Florida Medicaid Populations.
	\$6,000	2	American Foundation for Pharmaceutical Education	American Foundation for Pharmaceutical Education Fellowship.
	\$32,000	1	US Dept of Veterans Affairs	Formative Evaluation of an INR Home Monitoring Program in the VA sunshine Healthcare Network.
Almut Winterstein	\$59,190	1	US Dept of Veterans Affairs	Professional Services Contract for rehabilitation Outcomes Research Center – Soo Yeon Kwon.
	\$22,312	1	Scios Nova, Inc.	Prophylactic Use of Nesiritide (Brain Natriuretic Peptide, BNP) for Prevention of Acute Renal Failure in Cardiothoracic Surgery Patients.
	\$12,425	1	UF Research Fdn.	Residual Funds.

PHARMACY PRACTICE & CENTER FOR PHARMACOGENOMICS

Faculty	Award Amount	Number	Agency	Project Title
Reginald Frye	\$28,056	1	Bayer AG	Effect of BAY 43-9006 on CYP3A Activity in Patients with Advanced Refractory Cancer – Analytical Contract.
Leslie Hendeles	\$64,839	4	GlaxoSmithKline.	DISKUS SAM40086.
	\$36,900	1	GlaxoSmithKline.	Systemic Exposure to Fluticasone in Pre-School Children with Asthma.
	\$27,715	1	MAP Pharmaceuticals	MAP-NCD-001. A Sequential Dose Escalation Study of the Effect of Tyloxapone on Airway.
	\$36,174	1	Novartis – United States	The Effect of Omalizumab on Airway Responsiveness to Adenosine with Poorly Controlled Asthma.
	\$56,464	1	University of Florida Research Foundation	Miscellaneous Residual.
Julie Johnson	\$822,328	2	National Institute of Health	Hypertension Pharmacogenetics.
	\$122,455	1	National Institute of Health	Beta-receptor Polymorphisms and Cardiovascular Pharmacogenomics.
Janet Karlix	\$20,000	1	National Kidney Foundation	Metabolic Pharmacogenomics in Renal Transplant Patients.
J. Daniel Robinson	\$109,000	1	Suwannee River Area Health Education Center	Suwannee River Area Health Education Center.
Jim Taylor	\$4,500	1	Sanofi-Synthelabo Res., US	Educational Research grant.
Issam Zineh	\$20,000	1	Am. Coll. Clinical Pharmacy	Atorvastatin Immunomodulation in Early Atherosclerosis.

ADMINISTRATION

Faculty	Award Amount	Number	Agency	Project Title
William J. Millard	\$14,751	1	Dept of Children & Families	Tacachale Pharmacy Services Management Account
	\$305,208	1	Shands Jacksonville Medical Center	Pharmaceutical Care and Education Contract 3430(Contractual Agreement for Professional Services Between Shands Jax and the College of Pharmacy.
	\$159,065	4	US Dept Veterans Affairs	Pharmacy Residency Agreement.

18TH ANNUAL RESEARCH SHOWCASE AND AWARDS RECOGNITION DAY

THURSDAY, APRIL 14, 2005



**UNIVERSITY OF FLORIDA
COLLEGE OF PHARMACY**

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

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

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

ANDRX CORPORATION
Ft. Lauderdale, FL

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

DR. ROBERT AND PHYLLIS LEVITT
Gainesville, FL

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

SCHEDULE OF EVENTS

8:00am - 9:15am Students Set-up Poster Presentations
(Founders Gallery – ARB)

POSTER COMPETITION

9:15am - 11:30am **Poster Competition** with Students Present for Judging
(Reception Area – HPNP Building)

11:45am - 12:45pm Luncheon for Poster and Oral Judges in the Dean's Conference
Room (Room 4307 – HPNP Building)

ORAL COMPETITION

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

Levitt Division (20 minute presentations)

1:00pm – 1:20pm Tobias Gerhard
1:20pm – 1:40pm Michael Taylor

Junior Division (15 minute presentations)

1:45pm - 2:00pm Wouter Driessen
2:00pm - 2:15pm Bettina Proneth
2:15pm - 2:30pm James Sacco

2:35pm - 2:50pm BREAK (15 minutes)

Senior Division (20 minute presentations)

2:50pm - 3:10pm Boman Irani
3:10pm - 3:30pm Ke Ren
3:30pm - 3:50pm Aleksandar Todorovic

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

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

ORAL COMPETITION

LEVITT DIVISION

1. Presenter: **Tobias Gerhard**
Department: Pharmacy Health Care Administration
Research Title: Potential Benefit of Nesiritide after Adult Open Heart Surgery.
2. Presenter: **Michael Taylor**
Department: Pharmacy Health Care Administration
Research Title: Clinical and Economic Outcomes of Prostate Cancer Treatment Strategies.

JUNIOR AWARD

1. Presenter: **Wouter Driessen**
Department: Pharmaceutics
Research Title: Development of Peptide-targeted Lipoplex for Systemic Administration.
2. Presenter: **Bettina Proneth**
Department: Medicinal Chemistry
Research Title: Characterization of Melanocortin-4-Receptor Mutations Associated with Severe Human Obesity.
3. Presenter: **James Sacco**
Department: Medicinal Chemistry
Research Title: Sulfonation of Environmental Chemicals and Their Metabolites in the Polar Bear (*Ursus Maritimus*).

SENIOR DIVISION

1. Presenter: **Boman Irani**
Department: Medicinal Chemistry
Research Title: *In Vivo* Feeding Effects of Melanocortin Ligands Possessing Mixed Pharmacology at the Melanocortin 3 and 4 Receptors.
2. Presenter: **Ke Ren**
Department: Pharmaceutics
Research Title: Mechanisms Underlying $\alpha 7$ Nicotinic Receptor Mediated Cytoprotection.
3. Presenter: **Aleksandar Todorovic**
Department: Medicinal Chemistry
Research Title: Discovery of Potent mMC1R Agonists with Prolonged Activity at Human Melanocytes.

POSTER COMPETITION

- 1. Variable Blood Pressure Response to Verapamil by KCNMB1 Genotype.**
Presenter: Amber Beitelshes (Pharmacy Practice/Postdoctoral Fellow)
Authors: A Beitelshes, Y Gong, R Cooper-Dehoff, J Moss, C Pepine, J Johnson
- 2. Penetration of Ertapenem into Different Pulmonary Compartments of Patients Undergoing Lung Surgery.**
Presenter: Olaf Burkhardt (Pharmaceutics/Postdoctoral Fellow)
Authors: O Burkhardt, J Majcher-Peszynska, H Derendorf, T Welte
- 3. Effects of Enteral Feeding on the Oral Bioavailability of Moxifloxacin in Healthy Volunteers.**
Presenter: Olaf Burkhardt (Pharmaceutics/Postdoctoral Fellow)
Authors: O Burkhardt, H Stass, H Derendorf, T Welte
- 4. Effect of Hepatocyte Division on rAAV DNA Persistence.**
Presenter: Young-Kook Choi (Pharmaceutics/Postdoctoral Fellow)
Authors: Y-K Choi, Y Lu, S Song
- 5. DNA Repair Enzyme (DNA-PKcs) Enhances rAAV Replication.**
Presenter: Young-Kook Choi (Pharmaceutics/Postdoctoral Fellow)
Authors: Y-K Choi, I Zolotukhin, B Byrne, S Song
- 6. Population Dose-response Modeling for Albuterol in Asthmatics.**
Presenter: Rajanikanth Madabushi (Pharmaceutics/Postdoctoral Fellow)
Authors: R Madabushi, K Blake, H Derendorf
- 7. Population Pharmacokinetic Analysis of Digoxin in Egyptian Pediatric Patients with Heart Failure.**
Presenter: Rajanikanth Madabushi (Pharmaceutics/Postdoctoral Fellow)
Authors: R Madabushi, V Bhattaram, E Desoky, H Derendorf
- 8. Evaluation of a Novel Regulable AAV Vector for AAT Gene Therapy.**
Presenter: Yuan-Qing Lu (Pharmaceutics/Postdoctoral Fellow)
Authors: Y-Q Lu, K Lowe, S Song

POSTER COMPETITION (cont.)

- 9. Cost Effectiveness of HIV Treatment Innovations with Greater Efficacy than Highly-active Antiretroviral Therapy (HAART).**
Presenter: Sonya Snedecor (Pharmacy Health Care Admin/Postdoctoral Fellow)
Authors: S Snedecor, A Hartzema, C Schiller
- 10. Effect of Dieldrin on Superoxide Production in Primary Rat Microglia.**
Presenter: Xi Fang (Pharmacodynamics/Postdoctoral Fellow)
Authors: X Fang, B Liu
- 11. Beta 2-adrenergic Receptor (B2AR) Polymorphisms and Antihypertensive Response to Beta-blocker Therapy in the Invest Trial.**
Presenter: Yan Gong (Pharmacy Practice/Postdoctoral Fellow)
Authors: Y Gong, A Beitelshes, L Stauffer, H Yarandi, T Langae, R Cooper-DeHoff, C Pepine, J Johnson
- 12. Sulfotransferase 2A1 Forms Estradiol-17-sulfate and Celecoxib Switches the Dominant Product from Estradiol-3-sulfate to Estradiol-17-sulfate.**
Presenter: Li-Quan Wang (Medicinal Chemistry/Postdoctoral Fellow)
Authors: LQ Wang, M James
- 13. Conformational Studies of Agouti Related Protein (AGRP)-melanocortin Chimeric Peptides.**
Presenter: Andrzej Wilczynski (Medicinal Chemistry/Postdoctoral Fellow)
Authors: A Wilczynski, K Wilson, J Scott, A Edison, C Haskell-Luevano
- 14. Gene Expression and Regulation of Alpha-1 Antitrypsin in Pancreatic Islets.**
Presenter: Bin Zhang (Pharmaceutics/Postdoctoral Fellow)
Authors: B Zhang, G Zhao, M Campbell-Thompson, S Song
- 15. Evaluation of Novel Anti-inflammatory Activity of Sigma Receptor Ligands in Brain Immune Cells.**
Presenter: Angela Hatter (Pharmacodynamics/Pharmacy Student)
Authors: A Hatter, T Wong, F Berardi, B Liu
- 16. Vitamin K Epoxide Reductase Polymorphisms Rare in Warfarin-treated Population.**
Presenter: Katherine Gaston (Pharmacy Practice/Pharmacy Student)
Authors: K Gaston, C Aquilante, T Langae, L Lope, J Johnson

POSTER COMPETITION (cont.)

17. Gene Delivery Using Magnetofection.

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

18. Novel Gene Therapy for Alzheimer's Disease.

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

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

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

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

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

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

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

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

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

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

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

24. Anxiolytic and Antioxidant Activities of Apocynum Venetum L.

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

POSTER COMPETITION (cont.)

25. rAAV2 Transcytosis Through Caco-2 Cells.

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

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

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

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

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

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

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

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

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

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

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

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

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

32. Synthesis of Calpain Inhibitors for Use as Radiotracers.

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

POSTER COMPETITION JUEDGES

Dr. Diane Beck

Director, Educational Initiatives
College of Pharmacy
University of Florida
Box 100483

Dr. Robert G. Bell

President and CEO
Drug & Biotechnology Development
406 South Arcturas Avenue, Suite 5
Clearwater, FL 33765

Dr. Taimour Langaee

Research Assistant Professor
Department of Pharmacy Practice
Director, UF Center for Pharmacogenomics
Genotyping Core Laboratory
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Dr. Sally Litherland

Assistant Professor
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University of Florida
Box 100275

Dr. Carey Mobley

Assistant Professor
Department of Pharmaceutics
College of Pharmacy
University of Florida
Box 100494

Dr. Neil Rowland

Professor and Chair
Department of Psychology
College of Liberal Arts and Sciences
University of Florida
Box 112250

ORAL COMPETITION JUDGES

Dr. Maureen A. McKenzie

CEO, Delali BioTechnologies, LLC
4077 Mills Drive
Anchorage, AK 99508

Dr. Eric Tomlinson

President and CEO, Altea Therapeutics
2056 Weems Road
Tucker, GA 30084

Dr. Wolfgang “Jake” Streit

Professor
Department of Neuroscience
College of Medicine
University of Florida
Box 100244

Dr. Krista Vandenborne

Associate Professor and Chair
Department of Physical Therapy
College of Public Health and Health Professions
University of Florida
Box 100154