

Office of Research and Graduate Studies

2013  **2014**

Annual Report

**University of Florida
College of Pharmacy**

Office of Research and Graduate Studies Staff

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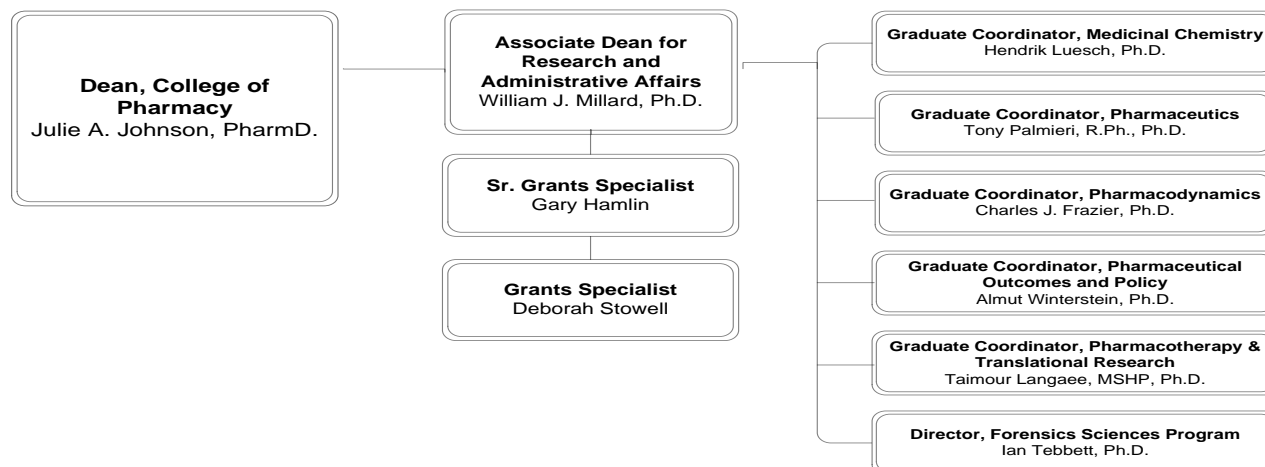
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Introduction

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

The structure of the ORGS is outlined in **Figure 1**. Dr. William J. Millard, Professor in the Department of Pharmacodynamics, accepted the role as Associate Dean for Research and Graduate Studies on an acting basis in January 1995, and then on a permanent basis in August 1997. On January 1, 1999, Dr. Millard accepted the permanent position as Executive Associate Dean for the College of Pharmacy and then on November 1, 2013 assumed a new title as the Associate Dean for Research and Administrative Affairs. This position continues to maintain 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 Associate Dean for Research and Administrative Affairs 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 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 Associate Dean also acts as the major liaison between the Graduate School and the Office of Research, Technology and Graduate Education (ORTGE) at the University of Florida and the COP faculty and graduate students.

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

Related to research activities, the 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 Associate Dean's responsibility to ensure that all grants are submitted and logged through UF in the proper manner. This includes making sure that proper contractual arrangements and documentation are completed and that each contract or grant contain the proper faculty percent effort and salary offset dollars, as well as correct Facilities & Administrative (F&A) cost and graduate student support. The Associate Dean also sees that information relevant to research is communicated to the proper faculty or personnel within the COP.

The Associate Dean is assisted in the ORGS by a Sr. Grants Specialist and a Grants Specialist. In January 2011 a Sr. Grants Specialist position was created and filled by Mr. Gary Hamlin. Since June 2001, the Grants Specialist has been Ms. Deborah Stowell. These two positions work together to handle the daily operations of the ORGS. Some of these duties include the tracking and reporting of graduate information and students, assisting students with various problems and graduate course registration, submission of needed reports to the COP, University and outside agencies, the coordination of the various functions of the ORGS, as well as the tracking and filing of new research grants and the monitoring of post-award activities.

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

Graduate Education and Program Activities

Graduate Programs in the College of Pharmacy

The College of Pharmacy offers both residential and online graduate programs. There is only one residential Ph.D. program administered through the College: *Ph.D. in Pharmaceutical Sciences*. Under the umbrella of the Ph.D. in Pharmaceutical Sciences (established in 1932) there are five *graduate specialty programs* that are recognized in the College of Pharmacy by the Graduate School. These graduate specialties are: Medicinal Chemistry (recognized in 1978), Pharmacodynamics (recognized in 1989), Pharmaceutical Outcomes and Policy (recognized in 1996), Pharmaceutics (recognized in 1998), and the Clinical Pharmaceutical Science concentration under Pharmacotherapy & Translational Research (recognized in February 2012). This was a major milestone in our College as now each Department has their own graduate concentration under the Pharmaceutical Sciences umbrella.

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

The College also offers a number of online programs leading to the M.S. degree. The University of Florida online [Forensic Science Program](#) has grown to become the largest graduate forensic program in the world with around a thousand enrollments each semester from some 40 different countries. Designed to meet the needs of working professionals, the program consists of three areas of concentration: DNA and Serology, Drug Chemistry, and Forensic Science. Within each concentration the program offers a Master's Degree or a Graduate Certificate. The program has received national recognition for excellence by the American Distance Education Consortium and the U.S. Distance Learning Association.

Sister programs in Pharmaceutical Chemistry and Clinical Toxicology were introduced in 2009 and 2011 respectively. The Pharmaceutical Chemistry program is primarily designed for those already employed, or seeking employment, in the pharmaceutical industry, while the Clinical Toxicology program appeals to emergency room and poison control center staff.

The Department of Pharmaceutical Outcomes and Policy offers an online [Master of Science in Pharmacy](#), program with a concentration in Pharmaceutical Outcomes and Policy and several specialty tracks: Applied Pharmacoeconomics, Clinical Research Regulation in Pharmacy, Drug Regulatory Affairs, Institutional Pharmacy Leadership, Patient Safety & Medication Risk Management, and Pharmacy Regulation & Policy. Because the program is open to students from all academic and professional backgrounds, this unique Master's program serves as a career pathway for people both inside and outside the pharmacy industry to pursue careers with pharmaceutical companies, governmental agencies, professional associations, managed care and research organizations, benefits management companies, health systems and industry. Courses for this 30-credit program are held online in highly-interactive, live, virtual classrooms, and students are required to attend two or three weekend seminars and to take a final comprehensive exam on campus.

The online [Master of Science in Pharmacy with concentration in Medication Therapy Management](#) (MS-MTM) is a 33-credit degree program designed for working professionals who wish to continue their career while gaining the innovative patient care and business skills needed to become a leader in the field of medication therapy management. The MS-MTM program can be completed in as little as five semesters with only two visits to the campus in Gainesville, Florida. The challenging curriculum will prepare pharmacists for an advanced level of practice that involves medication therapy management and direct patient care.

Graduate Studies Committee (GSC) Activities

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

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

select finalists in the College's Spring Research Competition and also makes recommendations on how to improve this College function.

The makeup of the GSC includes a **graduate coordinator representative** from each of the departments and the **President of the COP Graduate Student Organization**. The Associate Dean for Research and Administrative Affairs serves as the non-voting chair, and the Dean as *ex-officio* member of the committee. The Grants Specialist sits in on all committee meetings as the recording secretary. Representatives on the Committee were:

Non-voting Chair:	Dr. William Millard	Office of Research and Graduate Studies
Voting Members:	Dr. Hendrik Luesch	Medicinal Chemistry
	Dr. Jason Frazier	Pharmacodynamics
	Dr. Almut Winterstein	Pharmaceutical Outcomes and Policy
	Dr. Tony Palmieri	Pharmaceutics
	Dr. Taimour Langae	Pharmacotherapy & Translational Research
	Dr. Ian Tebbett	Forensic Science Program
	Dr. Donna Rivera Simpson	President of COP Graduate Student Organization
Ex-officio Member:	Dr. Julie Johnson	Dean

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

- Selection of the FY 14/15 Grinter and Graduate School Fellowship Awardees
- Review of the use of Liberty Award monies for graduate students in each of the departments
- Use of State Line OPS monies for graduate student stipends
- Establishment of TA assignments for each of the semesters
- Continual review of graduate programs in each department
- Establishment of goals and objectives for each graduate program within the College
- Selection of finalists for the 27th 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 Associate Dean for Research and Graduate Studies. The COP GSO elects a president on an annual basis. The president of the organization coordinates and runs the meetings (1-2 per year) and also sits in on the Graduate Studies Committee as a voice for the graduate students. **Dr. Donna Rivera Simpson**, from the Department of Pharmaceutical Outcomes and Policy, served as president of the organization.

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

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

The College has 50 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**. The COP accepted 28 new students into the various Graduate Programs. A listing of all residential 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-four graduate students were engaged in residential studies leading to either the M.S. or Ph.D. degree this year. The COP graduated 10 Ph.D. students and 3 M.S. students (see: **Graduate Student Graduation Activities**). In addition, 597 graduate students were pursuing a M.S. degree program by online education. Noteworthy, is that 194 (32.5%) of these students graduated this past academic year.

Table 3 outlines the overall demographics of the residential graduate student population within the COP. This year the number of male students compared to female students was a 49/51 percent male/female ratio. The college has a 30/70 percent American/Foreign student ratio as well. The percent of U.S. minority students was 3.2% (3 of 94) for FY 13/14. This is a slight decrease from the previous year of 4.4% (4 of 91). Distribution of graduate students among the departments is illustrated in **Table 4**. This year the Department of Pharmaceutics had the highest number of students with 32; Pharmaceutical Outcomes and Policy had 27; Medicinal Chemistry had 17; Pharmacodynamics had 10; and Pharmacotherapy & Translational

Research had 8 students pursuing graduate degrees. GPA and graduate program entrance test scores for both the entire population of the residential graduate students and the entering class of 13/14 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 a listing of Exchange Students is listed in **Table 10**. Noteworthy is that the COP Ph.D./M.S. graduate program had 2 students leave the graduate program during FY 13/14.

Table 1: Graduate Faculty

Department/Center	Faculty Name	
Medicinal Chemistry	Raymond Bergeron	Hendrik Luesch
	Yousong Ding	Xin (Cindy) Qi
	Oliver Grundmann	Kenneth Sloan
	Robert Huigens	Ian Tebbett
	Margaret James	Donna Wielbo
Pharmaceutics/Center for Drug Discovery & Center for Drug Interaction Research and Education	Guohua An	Tony Palmieri
	Hartmut Derendorf	Stephan Schmidt
	Guenther Hochhaus	Sihong Song
	Lawrence Lesko	Mirjam Trame
	William Mobley	Xiaoyan Zhang
Pharmacodynamics	Jason Frazier	Bin Liu
	Michael Katovich	Michael Meldrum
	Maureen Keller-Wood	William Millard
	Eric Krause	Joanna Peris
Pharmaceutical Outcomes and Policy	Diane Beck	Haesuk Park
	Abraham Hartzema	Richard Segal
	Earlene Lipowski	Thomas Smith
	Robert Navarro	Almut Winterstein
	Folakemi Odedina	
Pharmacotherapy & Translational Research/ Center for Pharmacogenomics	Rhonda Cooper-DeHoff	Sven Normann
	Reginald Frye	Charles Peloquin
	Leslie Hendeles	Caitrin Rowe
	Julie Johnson	Katie Vogel-Anderson
	Taimour Langae	Karen Whalen
	John Markowitz	Yan Whisler
	Michael McKenzie	

Table 2: Graduate Students in Residential Programs

Department/Center	Name	Date	Expected	Degree	Mentor
		Entered	Grad Date	Sought	
Medicinal Chemistry	Abouelhassan, Yasmeen *	Aug. 13	Aug. 17	Ph.D.	Huigens
	Alawadhi, Fatma	Aug. 12	Aug. 16	Ph.D.	Luesch
	Bousquet, Michelle	Aug. 10	Aug. 15	Ph.D.	Luesch
	Cai, Weijing	Aug. 12	Aug. 16	Ph.D.	Luesch
	Felsing, Daniel	Aug. 11	May. 15	Ph.D.	Booth
	Garrison, Aaron *	Aug. 13	Aug. 17	Ph.D.	Huigens
	Jackson, Erin	Aug. 10	Aug. 15	Ph.D.	James
	Lou, Danmeng *	Aug. 13	Aug. 17	Ph.D.	Luesch
	Ma, Zhuofan	Aug. 12	Aug. 14	M.S.	Qi
	Paciaroni, Nicholas *	Aug. 13	Aug. 17	Ph.D.	Huigens
	Schultz, Michael	Aug. 11	Aug. 14	M.S.	Sloan
	Smeltz, Marci	Aug. 12	May. 17	Ph.D.	James
Synovec, Jennifer **	Aug. 09	May. 14	Ph.D.	Sloan	

Table 2: Graduate Students in Residential Programs (cont.)

Department/Center	Name	Date	Expected	Degree	Mentor
		Entered	Grad Date	Sought	
Medicinal Chemistry (cont.)	Thiele, Nikki	Aug. 11	Dec. 15	Ph.D.	Sloan
	Zhang, Yi *	Aug. 13	Aug. 17	Ph.D.	Qi
	Zhong, Guo	Aug. 11	Dec. 16	Ph.D.	James
	Zuo, Ran *	Aug. 13	Aug. 17	Ph.D.	Ding
Pharmaceutics/ Center for Drug Discovery & Center for Drug Interaction Research and Education	Akbar, Mohammad	Jan. 10	Dec. 14	Ph.D.	Song
	Alalaiwe, Ahmed	Aug. 10	Dec. 14	Ph.D.	Frye
	Alfant, Barnett *	Aug. 13	Left Prog	Ph.D.	Derendorf
	Barth, Aline	Aug. 10	Aug. 14	Ph.D.	Derendorf
	Bei, Di *	Jan. 14	May. 17	Ph.D.	An
	Bhagwat, Sharvari	Aug. 11	May. 15	Ph.D.	Hochhaus
	Chen, Guanming **	Aug. 11	Dec. 13	M.S.	Song
	Chen, Mongjen **	Aug. 09	Dec. 13	Ph.D.	Song
	Deng, Jiexin	Jan. 13	May. 17	Ph.D.	Deng
	Falcao, Nivea Maria Simoes	Jan. 12	May. 16	Ph.D.	Derendorf
	Heinrichs, Marc *	Jan. 14	Aug. 17	Ph.D.	Derendorf
	Kandala, Bhargava **	Aug. 09	May. 14	Ph.D.	Hochhaus
	Kast, Johannes	Jan. 13	May. 17	Ph.D.	Derendorf
	Khaowroongrueng, Vipada *	Jan. 14	Aug. 17	Ph.D.	Derendorf
	Liu, Xuan	Aug. 09	Aug. 15	M.S.	Palmieri
	Mangal, Naveen *	Jan. 14	Aug. 17	Ph.D.	Schmidt
	Prasanchaimontri, Ing-orn	Aug. 12	May. 16	Ph.D.	Derendorf
	Raum, Diane *	Jan. 14	Left Prog	Ph.D.	Derendorf
	Ravula, Abhigyan *	Aug. 13	May. 17	Ph.D.	Derendorf
	Samant, Snehal	Aug. 12	May. 16	Ph.D.	Schmidt
	Schilling, Uta *	Aug. 13	May. 17	Ph.D.	Hochhaus
	Shao, Joy *	Aug. 13	May. 17	Ph.D.	An
	Song, Xuyang	June. 09	Aug. 14	Ph.D.	Derendorf
	Sy, Sherwin **	Aug. 10	May. 14	Ph.D.	Derendorf
	Tucker, Amelia *	Aug. 13	May. 17	Ph.D.	Derendorf
	Voelkner, Alexander	Aug. 12	May. 17	Ph.D.	Derendorf
	Waters, Chad	Jan. 09	May. 15	Ph.D.	Hochhaus
	Yu, Yichao *	Aug. 13	May. 17	Ph.D.	Derendorf
	Zaidi, Syedsaoud *	May. 13	May. 17	Ph.D.	Hochhaus
	Zhao, Li	Aug. 12	May. 16	Ph.D.	Hochhaus
Zhou, Di	Jan. 11	Dec. 15	Ph.D.	Hochhaus	
Zhuang, Luning	Jan. 11	Aug. 14	Ph.D.	Derendorf	
Pharmacodynamics	Antolic, Andrew	Aug. 12	May. 17	Ph.D.	Keller-Wood
	Bruce, Erin **	Aug. 08	Dec. 13	Ph.D.	Katovich
	Kelly, Kyle Blaine	Aug. 12	May. 17	Ph.D.	Frazier
	MacFadyen, Kaley Ann	Aug. 11	Aug. 16	Ph.D.	Peris
	Pati, Dipanwita	July. 10	Dec. 14	Ph.D.	Frazier
	Rathinasabapathy, Anandharajan	June. 09	Dec. 14	Ph.D.	Katovich
	Smith, Justin Andrew	Aug. 12	May. 17	Ph.D.	Krause
	Tikamdas, Rajiv Harish	July. 10	Dec. 14	Ph.D.	Liu
	Wang, Lei	Aug. 11	Aug. 16	Ph.D.	Krause
	Wang, Yunyang (Ryan) **	June. 09	May. 14	M.S.	Peris
Pharmaceutical Outcomes and Policy/Center for Research in Pharmaceutical Care	Alalwan, Abdullah Abdulaziz *	Aug. 13	Aug. 17	Ph.D.	Segal
	Alrwisani, Adel	Aug. 12	Aug. 16	Ph.D.	Winterstein
	Bird, Steven **	Aug. 12	May. 14	Ph.D.	Hartzema
	Chen, Chao	Aug. 12	Aug. 16	Ph.D.	Hartzema

Table 2: Graduate Students in Residential Programs (cont.)

Department/Center	Name	Date	Expected	Degree	Mentor
		Entered	Grad Date	Sought	
Pharmaceutical Outcomes and Policy/Center for Research in Pharmaceutical Care (cont.)	Alalwan, Abdullah Abdulaziz *	Aug. 13	Aug. 17	Ph.D.	Segal
	Alrwisan, Adel	Aug. 12	Aug. 16	Ph.D.	Winterstein
	Bird, Steven **	Aug. 12	May. 14	Ph.D.	Hartzema
	Chen, Chao	Aug. 12	Aug. 16	Ph.D.	Hartzema
	Choi, YoonYoung *	Aug. 13	Aug. 17	Ph.D.	Lipowski
	Dave, Chintan	Aug. 12	Aug. 16	Ph.D.	Hartzema
	Dawwas, Ghadeer *	Aug. 13	Aug. 17	Ph.D.	Hartzema
	Doan, Justin *	Aug. 13	Aug. 15	M.S.	Hartzema
	Hincapie Castillo, Juan *	Aug. 13	Aug. 17	Ph.D.	Winterstein
	Jeon ,Nakyung	Aug. 12	Aug. 16	M.S.	Winterstein
	Kim, Ju-Hyeun (Elise) *	Aug. 13	Aug. 17	Ph.D.	Winterstein
	Knox, Caitlin	Aug. 09	Aug. 14	Ph.D.	Winterstein
	Li, Yan *	Aug. 13	Aug. 17	Ph.D.	Park
	Liu, Wei	Aug. 10	Aug. 14	Ph.D.	Winterstein
	Liu, Xinyue	Aug. 10	Dec. 14	Ph.D.	Winterstein
	Ma, Qinli (Lily) **	Aug. 07	Dec. 13	Ph.D.	Kauf/Hartzema
	Mansoor, Hend *	Aug. 13	Aug. 15	M.S.	Hartzema
	Murimi, Irene	Aug. 10	Dec. 14	Ph.D.	Hartzema
	Okoro, Olihe **	Aug. 09	May. 14	Ph.D.	Odedina
	Ramkissoo, Rishi	Aug. 12	Aug. 16	Ph.D.	Park/Segal
	Rosenthal, Rachel **	Aug. 09	Dec. 13	Ph.D.	Segal
	Schelfhout, Jonathan	Aug. 09	Aug. 14	Ph.D.	Hartzema
	Simpson, Donna	Aug. 12	Aug. 16	Ph.D.	Hartzema
	Stojanovic, Danijela	Aug. 10	Dec. 14	Ph.D.	Smith/Delaney
	Wang, Wei *	Aug. 13	Aug. 17	Ph.D.	Park
Wen, Xuerong (Sheron) **	Aug. 08	Dec. 13	Ph.D.	Hartzema	
Zhu, Yanmin	Aug. 12	Aug. 16	Ph.D.	Winterstein	
Pharmacotherapy & Translational Research	Albassam, Ahmed	Aug. 10	Aug. 15	Ph.D.	Frye
	Chang, Shin-Wen (Shirley)	Aug. 11	May. 15	Ph.D.	Cooper-DeHoff
	Egelund, Eric **	Aug. 09	May. 14	Ph.D.	Peloquin
	El Rouby, Nihal	Aug. 12	May. 16	Ph.D.	Langaee
	Kawaguchi, Marina	Aug. 10	Aug. 15	Ph.D.	Frye
	Sa, Ana Caroline Costa *	May. 13	May. 16	Ph.D.	Johnson
	Shahin, Mohamed	Aug. 11	May. 15	Ph.D.	Johnson
	Sultan, Abdullah	Aug. 11	May. 15	Ph.D.	Peloquin

* new students entering a COP graduate program during FY 13/14

** students who graduated with an M.S. or Ph.D. during FY 13/14

Table 3: Graduate Student Demographics in Residential Programs

Gender	Citizenship						American Minority							
	US		Foreign		Black		Hispanic		Asian/Island Pacific		Indian/Alaskan			
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total/%	94		28	29.8%	66	70.2%	1	1.1%	0	0.0%	2	2.1%	0	0.0%
Male	46	48.9%	15	32.6%	31	67.4%	0	0.0%	0	0.0%	2	4.3%	0	0.0%
Female	48	51.1%	13	27.1%	35	72.9%	1	2.1%	0	0.0%	0	0.0%	0	0.0%

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

Department/Center	Graduate Students	Post-doctoral Fellows	Visiting Scholars	Exchange Students
Medicinal Chemistry	17	5	0	0
Pharmaceutics	32	13	0	64
Pharmacodynamics	10	0	1	0
Pharmaceutical Outcomes and Policy	27	1	0	0
Pharmacotherapy & Translational Research	8	11	0	0
COLLEGE TOTAL	94	30	1	64

Table 5: GPA and Test Scores of Graduate Students in Residential Programs

Class	GPA	GRE			TOEFL	TSE
		Verbal	Quant.	Total		
COLLEGE TOTAL (94)*	3.58	163	169	329	97	115
FY 13/14 Class (28)	3.49	159	157	337	100	N/A

* numbers in parenthesis denote student population

Table 6: Post-doctoral Fellows and Visiting Scholars

Department/Center	Student Name	Mentor	Home Country
Medicinal Chemistry	Borrero, Nicholas	Huigens	USA
	Cordova-Sintjago, Tania	Booth	USA
	Fu, Junjie	Qi	China
	Jahn, Stephan	James	USA
	Kallifidas, Dimitrios	Luesch	Greece
	Khaybulin, Ravil	Qi	Russia
	Sha, Yu	Ding	China
	Soares de Azevedo, Mariangela	Luesch	Brazil
	Uy, Mylene	Luesch	Philippines
	Yang, Guang	Ding	China
Pharmaceutical Outcomes and Policy	Ibrahim, Omar	Winterstein	Jordan
Pharmaceutics/Center for Drug Discovery & Center for Drug Interaction Research and Education	Biliouris, Koustantinos	Trame	Greece
	Chen, Mongjen	Hochhaus	China
	Combes, Francois	Schmidt	France
	Gaitonde, Puneet	Schmidt	India
	Jiang, Xiling	Schmidt	China
	Kellermann Hurtado, Felipe	Schmidt	Brazil
	Lagishetty, Chakradhar	Schmidt	India
	Meng, Zhaoyu	Trame	China
	Mukker, Jatinder	Derendorf	India
	Samant, Tanay	Lesko	India
	Schotland, Peter	Schmidt	USA
	Shaik, Jafar	Derendorf	India
	Singh, Ravi	Derendorf	Canada
	Somani, Amit	Schmidt	India
	Zheng, Songmao	Schmidt	China

Table 6: Post-doctoral Fellows and Visiting Scholars (cont.)

Department/Center	Student Name	Mentor	Home Country
Pharmacodynamics	Chang, Juan	Katovich	China
Pharmacotherapy & Translational Research/Center for Pharmacogenomics	Erhan, Analisa	McLin	USA
	Green, Robert	McLin	USA
	Hamadeh, Issam	Johnson	Lebanon
	Knight, Michelle	Sando	USA
	Leigh, Jessica	Peloquin	USA
	Miller, Daryl	McLin	USA
	Mohamed, Mohamed E.	Frye	Egypt
	Nazarov, Victoria	Hall	USA
	Ramos, Miguel	Weitzel	Cuba
	Sierra, Johanna	Anderson	USA
Zhang, Bin	Cooper-DeHoff	China	

PharmD/Ph.D. Students in Graduate Programs

The University of Florida, College of Pharmacy offers a [Joint Doctor of Pharmacy \(PharmD\) and Doctor of Philosophy \(Ph.D.\) Degree](#) program for qualified Doctor of Pharmacy students who are interested in accelerated graduate studies. The purpose of this program is to prepare clinically oriented pharmaceutical scientists. Through the selection of appropriate graduate level courses and attainment of research skills and experience through research clerkships, students in the Doctor of Pharmacy program can receive advanced standing in one of the graduate pharmaceutical science disciplines in the College of Pharmacy. The joint degree program enables students to attain both degrees within a time frame of approximately nine years of study from the beginning of college. This includes at least two years of prepharmacy studies, four years of professional education, and approximately three to four years of graduate studies.

With our summer research program expanding for our PharmD students and our college's research programs becoming more translational in nature, our PharmD students continue to be interested in the college's PharmD/Ph.D. program. We had a total of six students enrolled in the PharmD/Ph.D. joint degree program this year. Three students completed the joint degree program, two students are completing the Ph.D. portion of the program, and one student is currently finishing his PharmD and will enter the Ph.D. portion of the joint program next year. A complete listing of PharmD/Ph.D. students is listed in **Table 7**.

Table 7: PharmD/Ph.D. Students Engaged in COP Graduate Residential Programs

Student Name	Department/Program	Expected Graduation Year	
		PharmD	Ph.D.
Completed the Ph.D. Degree: Dr. Eric Egelund	Pharmaceutics/PTR*/CST**	2009	2013
Completing the Ph.D. Degree: Dr. Juan Hincapie-Castillo Dr. Donna Rivera Simpson	Pharmaceutical Outcomes and Policy	2013	2017
	Pharmaceutical Outcomes and Policy	2012	2016
Completing the PharmD Degree: Ms. Gena Burch	Medicinal Chemistry	2016	2020

* PTR - Pharmacotherapy and Translational Research

** CST - Clinical Science Tract

Graduate Student Recruitment Activities

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

Whenever possible, requests for application materials that come through the ORGS are now sent to the departments. However, when applicants do not specify a graduate specialty in their letter of inquiry the ORGS handles these requests. To streamline the process, a letter (see [Appendix A](#)) describing the individual graduate programs/specialties and identifying the

graduate coordinators of each graduate specialty is sent to each applicant. In this letter, applicants are encouraged to access information from the COP home page on the Web.

Graduate student application activity for FY 13/14 for each of the departments is illustrated in **Table 8**. The College received 250 completed applications. Of the 250 completed applications, only 41 (or 16.4%) of the applicants were accepted, of which 28 students (or 68.3% of the potential students) will enter our graduate programs for FY 14/15.

Table 8: Departmental Graduate Student Recruitment Activity					
Department	# Completed Applications	# Applications Accepted	% Accepted	# Applicants Entered	% Entered
Medicinal Chemistry	73	10	13.7%	7	70.0%
Pharmaceutics	99	20	20.2%	11	55.0%
Pharmacodynamics	16	0	0.0%	0	0.0%
Pharmaceutical Outcomes and Policy	54	10	18.5%	9	90.0%
Pharmacotherapy & Trans. Research	8	1	12.5%	1	100.0%
COLLEGE TOTAL	250	41	16.4%	28	68.3%

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. **Table 9** lists the 74 students hosted by the COP during this academic year.

Table 9: Exchange Students			
Department	Student Name	Mentor	Home Country
Pharmaceutics/ Center for Drug Discovery & Center for Drug Interaction Research and Education	Abd el Halim, Wael	Song	Egypt
	Ahrends, Mariek	Derendorf	Germany
	Asim, Eduardo	Derendorf	Spain
	Auchtor, Lucia	Schmidt	Germany
	Avilan Avilan, Maria	Derendorf	Venezuela
	Balen, Jean-Baptist	Derendorf	France
	Berthet, Charlene	Derendorf	France
	Bigot, Claire	Derendorf	France
	Brandl, Madeleine	Schmidt	Germany
	Breitsamer, Michaela	Schmidt	Germany
	Broenner, Sara	Hochhaus	Germany
	Campaner, Laurie	Derendorf	France
	Carvalho de Costa, Juliana	Derendorf	Brazil
	Correa, Josilene	Derendorf	Brazil
	Cortez Rojas, Diego	Derendorf	Columbia
	Diederich, Lukas	Derendorf	Germany
	Diniz, Andrea	Derendorf	Brazil
	Doerje, Frank	Derendorf	Germany
	Drescher, Stefanie	Derendorf	Germany
	El Shikha, Ahmed	Song	Egypt
	El Talia, Maurice	Derendorf	Germany
	Endo, Tamasaka	Derendorf	Japan
	Falthauser, Rupert	Schmidt	Germany
	Gancheva, Asya	Derendorf	Germany
	Garve, Justus	Derendorf	Germany
	Gavalda, Benjamin	Derendorf	France
Glaser, Dennis	Hochhaus	Germany	
Gotz, Roman	Schmidt	Germany	
Graupner, Bettina	Derendorf	Germany	

Table 9: Exchange Students (cont.)

Department	Student Name	Mentor	Home Country
Pharmaceutics/ Center for Drug Discovery & Center for Drug Interaction Research and Education (cont.)	Guo, Tianwei	Song	China
	Guy, Corentin	Derendorf	France
	Hartmann, Sonja	Trame	Germany
	Hasenzahl, Meike	Derendorf	Germany
	Hassan, Rasha	Derendorf	Germany
	Heider, Fabian	Derendorf	Germany
	Heinrichs, Cordula	Derendorf	Germany
	Hermes, Juliane	Derendorf	Germany
	Ho, Le Huyen Trang	Derendorf	Germany
	Jetzer, Martin	Hochhaus	Switzerland
	Kaltenbach, Emmanuelle	Derendorf	France
	Krampe, Britta	Derendorf	Germany
	Krome, Anna	Derendorf	Germany
	Kunze, Sylvia	Derendorf	Germany
	Laqua, Laura	Derendorf	Germany
	Leininger, Julia	Schmidt	Germany
	Link, Catharina	Schmidt	Germany
	Lira, Ana	Derendorf	Brazil
	Luhmann, Esther	Schmidt	Germany
	Ma, Benjamin	Derendorf	Austria
	Malmberg, Ruben	Derendorf	The Netherlands
	Martins, Frederico	Derendorf	Brazil
	Matsushima, Aoi	Derendorf	Japan
	Neubert, Elsa	Derendorf	Germany
	Petzel, Robert	Schmidt	Germany
	Ressing, Dorothee	Derendorf	Germany
	Ritter, Andrea	Derendorf	Germany
	Sama, Simko	Derendorf	Germany
	Sandini, Laetitia	Hochhaus	Switzerland
	Schaefer, Johanna	Schmidt	Germany
	Schumacher, Tim	Derendorf	Germany
	Seiberth, Jasmin	Derendorf	Germany
	Sonego Zimmermann, Estevan	Schmidt	Brazil
Sturm, Miriam	Schmidt	Germany	
Van der Velden, Hester	Derendorf	The Netherlands	
Vozmediano Estaban, Valvanera	Derendorf	Spain	
Weitzel, Johanna	Derendorf	Germany	
Wermter, Teresa	Schmidt	Germany	
Werries, Nina	Derendorf	Germany	
Wiedey, Raphael	Derendorf	Germany	
Wimmer, Michaela	Derendorf	Germany	
Zabela, Volha	Derendorf	Switzerland	
Zhang, Kewei	Derendorf	China	
Zhoehner, Anna	Derendorf	Germany	
Medicinal Chemistry	Ghiran, Celine	James	France
Pharmaceutical Outcomes and Policy	Berthet, Charlene	Winterstein	France
	Kaltenbach, Emmanuelle	Wintertein	France

Graduate Student Graduation Activities

During this academic year the COP had 10 students finish their graduate program and earn a Ph.D. degree and 3 who earned a Master's degree. The following are the graduates according to commencement date.

Pharmaceutical Science Ph.D. Degrees Conferred

DECEMBER 2013 (FALL COMMENCEMENT)

Name: **Dr. Erin Bruce**
Dissertation Title: *Novel Roles for Angiotensin-(1-7) and Angiotensin Type 2 Receptor Activation in the Treatment of Cardiovascular Disease*
Faculty Mentor: Dr. Michael Katovich, Professor
Department: Pharmacodynamics
Previous Degrees: B.S. in Biological Sciences, Louisiana State University

Dr. Bruce assumed a position as a Post-doctoral Fellow in the Department of Pharmacology and Therapeutics, College of Medicine, University of Florida.

Name: **Dr. Mong-Jen Chen**
Dissertation Title: *Development of Novel Stem Cell Approaches for Autologous Liver Regeneration*
Faculty Mentor: Dr. Sihong Song, Associate Professor
Department: Pharmaceutics
Previous Degrees: B.S. in Biology, National Chen Kung University, Taiwan; M.S. in Biochemistry, Georgetown University Medical Center

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

Name: **Dr. Qinli Ma**
Dissertation Title: *Continuity of Care and Health Outcomes among Florida Medicaid Enrollees with Sickle Cell Disease*
Faculty Mentor: Dr. Teresa Kauf, Associate Professor
Department: Pharmaceutical Outcomes and Policy
Previous Degrees: B.S. in Pharmacy and International Trade, China Pharmaceutical University

Dr. Ma assumed a position as a Research Analyst with Healthcore, Wilmington, DE.

Name: **Dr. Rachel Rosenthal**
Dissertation Title: *Board Certified Pharmacists' Motivational Influences and Job Satisfaction*
Faculty Mentor: Dr. Richard Segal, Professor
Department: Pharmaceutical Outcomes and Policy
Previous Degrees: B.A. in Liberal Arts, MPH in Epidemiology, Armstrong Atlantic State University

Dr. Rosenthal is currently looking for a position in academia.

Name: **Dr. Xuerong (Sheron) Wen**
Dissertation Title: *Combining Adverse Perinatal Outcomes for Women Exposed to Antiepileptic Drugs during Pregnancy*
Faculty Mentor: Dr. Abraham Hartzema, Professor
Department: Pharmaceutical Outcomes and Policy
Previous Degrees: B.S. in Material Science, Central South University; M.S. in Material Engineering, University of Alabama; M.S. in Statistics, MPH in Biostatistics Public Health, University of Florida

Dr. Wen assumed a position as a Research Assistant Professor, Department of Nephrology, Hypertension and Renal Transplantation, College of Medicine, University of Florida.

MAY 2014 (SPRING COMMENCEMENT)

Name: **Dr. Steven Bird**
Dissertation Title: *Self-controlled Methodology in Pharmacoepidemiology: The Case-time-control and Self-controlled Case Series*
Faculty Mentor: Dr. Abraham Hartzema, Professor
Department: Pharmaceutical Outcomes and Policy
Previous Degrees: PharmD, Northeastern University; M.S. in Pharmacy, University of Florida

Dr. Bird assumed a position as the Director and Regulatory Review Officer with the Department of Epidemiology, Food and Drug Administration, Silver Spring, MD.

Name: **Dr. Eric Free Egelund**
Dissertation Title: *Pharmacokinetics of Rifampin and Cyclo-Pentyl Rifampin in Elephants and Man*
Faculty Mentor: Dr. Charles Peloquin, Professor
Department: Pharmacotherapy & Translational Research
Previous Degrees: B.S. in Microbiology, University of West Florida; PharmD, University of Florida

Dr. Egelund assumed a position as a Clinical Assistant Professor, College of Pharmacy at the Jacksonville Campus.

Name: **Dr. Bhargava Kandala**
Dissertation Title: *Pharmacometric Evaluation of Bioequivalence Approaches for Orally Inhaled Drug Products*
Faculty Mentor: Dr. Guënter Hochhaus, Professor
Department: Pharmaceutics
Previous Degrees: M.S. in Pharmacy, Birla Institute of Technology and Science; M.S. in Statistics, University of Florida

Dr. Kandala assumed a position as a Sr. Scientist, Quantitative Sciences, Merck, Rahway, NJ.

Name: **Dr. Olihe Okoro**
Dissertation Title: *Patient and Healthcare Provider Perceptions on Linkage to Care and Medication Adherence among African American Women Living with HIV/AIDS – A Quantitative Comparative Study*
Faculty Mentor: Dr. Folakemi Odedina, Professor
Department: Pharmaceutical Outcomes and Policy
Previous Degrees: M.S. in Pharmacy, University of Nigeria; MPH in Social & Behavioral Sciences, University of Florida

Dr. Okoro assumed at a position as an Assistant Professor at the University of Minnesota.

Name: **Dr. Sherwin Sy**
Dissertation Title: *Dosing Strategies of Antibiotic Combinations to Overcome Resistance*
Faculty Mentor: Dr. Hartmut Derendorf, Professor
Department: Pharmaceutics
Previous Degrees: M.S. in Pharmacology, University of Toronto; M.S. in Statistics, Temple University

Dr. Feng assumed a position as an Associate Director of Pharmacometrics, Nektar Therapeutics, San Francisco, CA.

Pharmaceutical Science Master's Degrees Conferred

DECEMBER 2013 (FALL COMMENCEMENT)

Name: **Ms. Guanming Chen**
Thesis Title: *Protective Effect of Alpha1-antitrypsin (AAT) on DSS-induced Colitis in Mouse Models*
Faculty Mentor: Dr. Sihong Song, Associate Professor
Department: Pharmaceutics
Previous Degrees: B.S. in Pharmacy, M.S. in Pharmaceutics, China Pharmaceutical University

Dr. Chen assumed a position as a contractor for Pro-unlimited, San Francisco, CA.

MAY 2014 (SPRING COMMENCEMENT)

Name: **Ms. Jennifer Synovec**
Faculty Mentor: Dr. Kenneth Sloan, Professor
Department: Medicinal Chemistry
Previous Degrees: B.S. in Chemistry, University of Florida

Ms. Synovec is currently looking for employment.

Name: **Mr. Yunyang Wang**
Thesis Title: *Characterization of the Effect of Prorenin and Prorenin Receptor on Ocular Inflammation*
Faculty Mentor: Dr. Joanna Peris, Associate Professor
Department: Pharmacodynamics
Previous Degrees: B.S. in Pharmacy, Huazhong University of Science & Technology

Mr. Wang joined a graduate program in Canada.

Forensic Sciences Master's Degrees Conferred

This year in the Forensics Programs there were 421 students enrolled in one of the seven Master's programs, Clinical Toxicology, DNA and Serology, Drug Chemistry, Forensic Science, Pharmaceutical Chemistry, PSM Forensic Science, and PSM Pharmaceutical Chemistry; and 130 students enrolled in one of the six certificate programs, Clinical Toxicology, Death Investigation, DNA and Serology, Drug Chemistry, Environmental Forensics, and Pharmaceutical Chemistry. Within the Master's programs there was a total of 131 students who graduated; 5 (3.8%) from the Clinical Toxicology program, 30 (22.9%) from the DNA and Serology program, 9 (6.9%) from the Drug Chemistry program, 57 (43.5%) from the Forensic Science program, 27 (20.6%) from the Pharmaceutical Chemistry program, 1 (.8%) from the PSM Forensic Science program, and 2 (1.5%) from the PSM Pharmaceutical Chemistry program. Within the certificate programs there was a total of 99 students who received their certificate; 6 (6.06%) from the Clinical Toxicology program, 19 (19.19%) from the Death Investigation program, 38 (38.38%) from the DNA and Serology program, 15 (15.15%) from the Drug Chemistry program, and 21 (21.21%) from Pharmaceutical Chemistry program. Listed in **Table 10** are those students who have graduated with their Master's in one of the Forensic Sciences programs.

Table 10: Master's Graduates in the Forensic Sciences Program

Program	Name	
Summer 2013		
Clinical Toxicology	Musselman, Megan	
DNA and Serology	Berry, Paul	
	Lockhart, Brigid	
	Foster, Jenna	
	McWilliams, Scott	
	Geering, Sarah	
	Nangunoori, Mukhambika	
Forensic Science	Greer-Ritzheimer, Mary Margaret	
	Sponsel, Angela	
	Grosswelter, Lisa	
	Temple, Angelina	
	Irwin, Margaret	
	Cash, Natoshia	
	O'Donnell, Gregory	
	Cooper, Rockefeller	
	O'gorman-McGurk, Marianne	
	Crowson, Lauren	
	Olson, Brianna	
	Emswiler, Taryn	
Ottilige, Stephanie		
Pharmaceutical Chemistry	Frazzini, Amy	
	Parmeter, Leah	
	Haller, Kelly	
	Qulia, Aimee	
	Leveque, Alyssa	
	Schettler, Amanda	
	Limerance, Charity	
	Shanahan, Amy	
	Luna, Samaranthe	
	Smith, Ann	
McCarthy, Gina		
Swofford, Henry		
Neutze, Click		
Wilutis, Kimberly		
Evans, Danny		
Steers, Nicola		
Geiger, Wendy		

Table 10: Master's Graduates in the Forensic Sciences Program (cont.)

Program	Name	
Summer 2013 (cont.)		
PSM Forensic Science	Rogers, Erin	
Fall 2013		
Clinical Toxicology	Martinez, Christina	Reynolds, Kimberly
DNA and Serology	Strong, Amanda	Norman, Heather
	Graves, Michaelia	Ransom, Tara
	Johnson, Deborah	Rogers, Aimee
	Kaut, Jessica	Rosarda, Jessica
	McMurray, Jennifer	Templin, Taylor
Drug Chemistry	Eisner, Jamie	Tornwall, Derek
	Graves, Dominic	Wang, Hongyi
	Perez, Maria	
Forensic Science	Bills, Alexandria	Polak, Katherine
	Burke, Nicholas	Rasmussen, Jessica May
	Gillette, Leslie	Rosarda, Amy
	Lenig, (Britney) Louise	Snyder, Sabrina
	Looke, Alexandra	Strand, Kristen
	Murray, Amy	Thomas, Brandy
	Peacock, Samantha	
Pharmaceutical Chemistry	Alluri, Shireesha	Phillips, Connie
	Lannon, Carissa	Rodriguez, Jaime
	Massen, Joel	Sambrone, Amy
Spring 2014		
Clinical Toxicology	Porter, Wendy	Sheilds, Anastasia
DNA and Serology	Bradshaw, Shawna	Nieto, Aimee
	Brigandi, Kimberly	Quick, Tiffany
	Brown, Sylvia	Thompson, Brigitte
	Dise, Darrell	Wilson, Samantha
	Hugie, April	
Drug Chemistry	Burr, Nicholas	Millam, Stacey
	Maloney, David	Morris, Laura
Forensic Science	Appleberry, Sherronda	LaPlant, Brian
	Ashton, Julie	Land, Deborah
	Cosme, Erin	Livengood, Rachelle
	Fernandez, Katheryn	McCartney, Scott
	Hester, Angela	Murphy, Nicole
	Hoaglund, Rachel	Delgado Nunez, Shary
	Hofstetter, Robert	Pandino, Michelle
	Gaskell, Kristina	Sedowski, John
	Joyce, Michelle	Stricklen, Lianne
	Knights, Kelsey	Turner (Costantine), Julie
	Kulbacki, Kevin	Weichel, Megan
Pharmaceutical Chemistry	Asiamah, Emmanuel	Gutenberg, Peter
	Barrett, Amanda	Kwantes, Jonathan
	Beckmann, Gwendolyn	Mack, Omega
	Bryant, Tisa	Murray, William
	Cheatham, Marcus	Mutale-Henderson, Musonda Eugenia
	Clarke, Jewyl	Rhynard, Katherine
	Dacil, Clarissa	Thomas, Bathsheba

Table 10: Master's Graduates in the Forensic Sciences Program (cont.)		
Program	Name	
Spring 2014 (cont.)		
Pharmaceutical Chemistry (cont.)	Farco, Joseph	Tye, Mallory
	Funk, Rebecca	White, Tyler
PSM Pharmaceutical Chemistry	Thrower, David	Wiegman, Richard

Pharmacy Regulations and Policy Master's Degrees Conferred

This year in the Pharmacy Regulation and Policy Program there were 123 students enrolled in one of the six programs offered; Applied Pharmacoeconomics, Clinical Research Regulations in Pharmacy, Drug Regulatory Affairs, Institutional Pharmacy Leadership, Patient Safety & Risk Management, and Pharmacy Regulations and Policy. Within the Master's programs there was a total of 28 students who graduated; 13 (46.4%) from the Applied Pharmacoeconomics program, 6 (21.4%) from the Clinical Research Regulations in Pharmacy program, 2 (7.1%) from the Drug Regulatory Affairs program, 1 (3.7%) from the Patient Safety & Risk Management program, and 6 (21.4%) from the Pharmacy Regulations and Policy program. Listed in **Table 11** are those students who have graduated with their Master's in one of the Pharmacy Regulations and Policy programs.

Table 11: Master's Graduates in the Pharmaceutical Outcomes and Policy Program		
Program	Name	
Summer 2013		
Applied Pharmacoeconomics	Clark, Bobby	Moore, Eugene
	Cole, Michele	Mueller, Richard
	Jean-Charles, Francois	Schettini, Todd
Clinical Research Regulations in Pharmacy	McKinney, Michelle	Simkin, Breanne
	Pholareeya, Poonam	Williamson, Cathleen
Drug Regulatory Affairs	Tabowei, Pamela	
Pharmacy Regulations and Policy	Carter, Al	Linz, Karen
	Cost, Micah	
Fall 2013		
Applied Pharmacoeconomics	Cox-Buckley, Briana	Lennertz, Matthew
	Elebra, Roger	Nesheim, Jeffrey
	Hurd, Lionel Jeff	White, James
Clinical Research Regulations in Pharmacy	Mowery, Joy	
Pharmacy Regulations and Policy	Sima, Mike	
Spring 2014		
Applied Pharmacoeconomics	Dandappanavar, Akash	
Clinical Research Regulations and Ethics	Varghese, John	
Drug Regulatory Affairs	Green, Charisse	
Patient Safety and Risk Management	Abdulkudus, Muhammed	
Pharmacy Regulations and Policy	Carter, Emily	Tripathi, Hardam

Medication Therapy Management Master's Degrees Conferred

This year in the Medication Therapy Management Program there were 53 students enrolled, of which 35 students graduated with their M.S. Listed in **Table 12** are those students have graduated with their Master's.

Table 12: Master's Graduates in the Medication Therapy Management Program

Summer 2013		
Carter, Louis	Lee, Yoonah	Owens, Julie
Deveaux, Margo	Mahan, Lisa	Pumphrey, Carri
Geroge, Bolanle	Martinez, Tracey	Syed, Sabahat
Hernandez, Roberta	McGlone, Julia	Tuzinowski, Marek
Johnson, Tamela	Nacin, Cynthia	
Fall 2013		
Bachtell, Tarra	Meredith, Irvin	Ritchie, Dorinda
Brown, Kenton	Messick, Samantha	Ryan, Natalie
Feingold, Sue	Miller, Jennifer Lyn	Schulman, Glenn
Hildebrand, Lisa	Pogue-Olivares, Dawn	Tu, Binh Minh
Spring 2014		
Bessaly, Emad	Ezebuoro, Adaeze	Said, Daga
Carroll, Jennifer	Kondabathini, Radhika	Sosanya, Oluwatoyin
Eckert, Laurie	Mark, Elaine	White, Katherine

Graduate Student Funding and Awards

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

The COP carried the major load of the funding of graduate student stipends by supporting 60 graduate student stipends; eleven students received support from extramural research grants; ten students were funded by their home government; and ten students funded their own graduate education this year. Nine students received Grinter Awards as a supplement to their state funding. Graduate stipends ranged from \$14,000 to \$25,750 with an average overall stipend of \$18,657.

Thirteen graduate student fellowship proposals totaling \$944,696 were submitted to extramural sources this year. Agencies to which proposals were submitted were the American Foundation for Pharmaceutical Education (AFPE), NIH Diversity Fellowship, Damon Runyun Cancer Research Foundation, GlaxoSmithKline, Alfred P. Sloan Foundation, American Heart Association, and the American Cancer Society.

Graduate School Fellowship

Beginning Fall Semester 1999, the University of Florida offered the *Graduate School Fellowship* program with the express interest of increasing graduate enrollment and attracting high quality students to each graduate program at the University. This fellowship represents the highest graduate student award available at the University and is funded at nationally competitive levels starting at \$25,000/year for four years plus all tuition remuneration, and full health insurance coverage. The College of Pharmacy received four additional *Graduate School Fellowships*. The recipients of the *Graduate School Fellowships* are:

Aaron Garrison	Medicinal Chemistry	FY 13/14
YoonYoung Choi	Pharmaceutical Outcomes and Policy	FY 13/14
Ghadeer Dawwas	Pharmaceutical Outcomes and Policy	FY 13/14
Yan Li	Pharmaceutical Outcomes and Policy	FY 13/14
Chao Chen	Pharmaceutical Outcomes and Policy	FY 12/13
Justin Smith	Pharmacodynamics	FY 12/13
Samant Snehla	Pharmaceutics	FY 12/13
Guanming Chen	Pharmaceutics	FY 11/12
Daniel Felsing	Medicinal Chemistry	FY 11/12
Tom Seto	Pharmaceutical Outcomes and Policy	FY 11/12
Mohamed Shahin	Pharmacotherapy & Translational Research	FY 11/12
Lei Wang	Pharmacodynamics	FY 11/12

Michelle Bousquet	Medicinal Chemistry	FY 10/11
Marina Kawaguchi	Pharmacotherapy & Translational Research	FY 10/11
Irene Murimi	Pharmaceutical Outcomes and Policy	FY 10/11
Dipanwita Pati	Pharmacodynamics	FY 10/11
Sherwin Sy	Pharmaceutics	FY 10/11

DuBow Fellowship

The *Lawrence J. DuBow Fellowship* is awarded to a graduate student to support their research and education in the Department of Pharmaceutical Outcomes and Policy, especially for students involved with research related to pediatrics. This award consists of an annual stipend supplement of \$5,000. The awardee is selected by the faculty in Pharmaceutical Outcomes and Policy. The recipient of the *DuBow Fellowship* is:

Xinyue Liu	Pharmaceutical Outcomes and Policy	FY 13/14
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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 \$2,500 per year for a maximum of 3 years (\$7,500 total award). A statistical summary of the *Grinter Awards* in the COP is illustrated in **Table 13**. Overall, we have had a 70.8% acceptance of *Grinter Awards* by prospective students. Sixty-four 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 3.52 with a GRE of 311 and a TOEFL of 105.

Table 13: Statistical Summary of the Grinter Program – 1988 to Present			
Statistic	Overall	%	13/14 Class
Total number offered	130		4
Total number accepted	92	70.8%	3
Total number graduated	59	70.7%	
Total number still enrolled: past & present	19	18.5%	
Number of active awardees	9	9.8%	3
Grade Point Average (GPA)	3.52		3.29
Graduate Record Exam -GRE (Verbal + Quant.)	311		311
Test of English as a Foreign Language (TOEFL)	105		102

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

Uta Schilling	Pharmaceutics	FY 13/14
Amelia Tucker	Pharmaceutics	FY 13/14
Wei Wang	Pharmaceutical Outcomes and Policy	FY 13/14

Kyle Kelly	Pharmacodynamics	FY 12/13
Donna Rivera Simpson	Pharmaceutical Outcomes and Policy	FY 12/13
Marci Smeltz	Medicinal Chemistry	FY 12/13

Sharvari Bhagwat	Pharmaceutics	FY 11/12
Kaley MacFadyen	Pharmacodynamics	FY 11/12
Guo Zhong	Medicinal Chemistry	FY 11/12

27th Annual Research Showcase and Awards Recognition Day

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

Graduate Student Awards and Recognitions

Caitlin Knox, a graduate student in the Department of Pharmaceutical Outcome and Policy working under Dr. Almut Winterstein, was awarded a 1 year \$42,000 Dissertation Award from the **Agency for Healthcare Research & Quality (AHRQ)** for her dissertation titled “*Pre-existing Diabetes and Pregnancy*”. Caitlin was also awarded a \$1,135 travel scholarship from the **International Society for Pharmacoepidemiology (ISPE)** to attend the International Conference on Pharmacoepidemiology and Risk Management in Barcelona, Spain in August, 2012.

Marina Suzuki, a graduate student in the Department of Pharmacotherapy & Translational Research working under Dr. Reggie Frye, was selected as the winner of the **2014 Association for Academic Women (AAW) Emerging Scholar** competition. This recognition includes a cash award of \$2,000 from the AAW Emerging Scholars fund.

Professional Student Awards and Recognitions

Tsu-Hsuan Yang, a professional student at the Gainesville campus, received an Honorable Mention in the Best Graduate Student, Resident or Fellow Poster category for her poster titled “*Improving the Participation Rate for Comprehensive Medication Reviews through Enhancing Part D Beneficiaries’ Understanding of the Service*” at the **Academy of Managed Care Pharmacy (AMCP) 25th Anniversary Meeting** in San Diego, CA in April 2013.

Amy Shook, a professional student at the Gainesville campus, and **Leonard Deleon**, a professional student at the Jacksonville campus, have each received an invitation from the **Johns Hopkins Hospital Pharmacy Department** to engage in a 12 week summer internship for the summer of 2014. Amy and Leonard secured two of only 24 positions available for the summer internship.

Keelin Dahl, a second year professional student at the Gainesville campus, and **David Reynaud**, a second year professional student at the St. Petersburg campus, were two of only seven pharmacy students who represented the United States at the **59th International Pharmaceutical Students’ Federation (IPSF) World Congress** that was held in Utrecht, the Netherlands July 30 – August 9, 2014.

International Student Academic Awards

At the International Student Academic Awards Ceremony held November 21, 2013, in the Smathers Library, four of the College of Pharmacy’s international graduate students received a certificate award for outstanding academic accomplishment. The recipients of the **International Student Awards** are:

Shin-Wen (Shirley) Chang Bhargava Kandala Xinyue Liu Guo Zhong	Pharmacotherapy & Translational Research Pharmaceutics Pharmaceutical Outcomes and Policy Medicinal Chemistry
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Graduate Minority Activities

The ORGS has continued to work with the Graduate School’s Office of Graduate Minority Programs (OGMP) in recruiting minority students into the College’s graduate programs. The ORGS filters information down to individual departments concerning funding opportunities for both graduate minority students as well as undergraduate minority students interested in a research career.

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

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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 (AACP) 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 18th this past year out of 74 schools with research programs as seen in **Table 14**. These placements are based solely on fiscal year NIH funding (October to September of a given year).

Table 14: AACP Statistics for NIH Funding					
NIH Fiscal Year	NIH Support	Rank	FTE Ph.D.'s	NIH Support/ FTE- Ph.D.	Rank
2009	\$6,081,908	19	34	\$178,880	22
2010	\$6,849,361	18	37	\$185,118	22
2011	\$7,399,403	18	15*	\$493,294*	08*
2012	\$6,459,730	18	13	\$496,902	17
2013	\$6,351,715	18	10	\$635,172	9

* beginning in FY 2011 the AACP reports the number of funded Principal Investigators.

Our faculty members continue to be productive and are making efforts to obtain more extramural support for their individual research efforts. During this year the ORGS processed a total of 158 extramural grant or contract applications from the five Departments for a total of \$79,717,473 in **new** grant dollars, see **Table 15**. This is a 67.1% increase in total dollars requested when compared to FY 12/13, see **Table 16**. The majority of new proposals (83.54%) within the COP are proposals in which the Principal Investigator (PI) is a faculty member within the COP (**Tables 15 and 16**). Research faculty members are also encouraged to collaborate with other units within the University. Sixteen percent of grants submitted were originated outside of the College of Pharmacy.

Table 17 shows total extramural research dollars brought into the College over the last five fiscal years (from July to June of a given fiscal year). This year our research funding dollars totaled \$12,162,144 with 119 individual awards coming into the College of Pharmacy.

During FY 13/14 departmental comparisons show that Pharmacotherapy & Translational Research brought in the highest total of research dollars within the COP at 33.63% (\$4,090,587). Pharmaceuticals was second at 22.83% (2,777,028); Medicinal Chemistry was third at 21.73% (\$2,642,235); followed by Pharmaceutical Outcomes and Policy at 13.61% (\$1,655,173); and Pharmacodynamics at 8.2% (\$997,122).

TOTAL EXTRAMURAL FUNDING to the COP is illustrated in **Table 18**. Total extramural support includes not only **RESEARCH** funds (also found in **Table 17**) but also those **ADMINISTRATIVE** funds that included support for educational training activities. This year there were no additional **ADMINISTRATIVE** funds. Overall, **Total Extramural Funding** had an increase of 29.65% from FY 12/13 (**Tables 18 and 19**).

Table 15: Proposal Processing Summary

Department	Inside the College	Outside the College	Total
College Total			
# Proposals	132	26	158
Total Amount	\$76,405,293	\$3,312,180	\$79,717,473
Medicinal Chemistry			
# Proposals	46	11	57
Total Amount	\$36,364,306	\$2,228,027	\$38,592,333
Pharmaceutics			
# Proposals	36	2	38
Total Amount	\$14,111,601	\$305,570	\$14,417,171
Pharmacodynamics			
# Proposals	10	0	10
Total Amount	\$8,141,562	\$0	\$8,141,562
Pharm. Outcomes & Policy			
# Proposals	17	4	21
Total Amount	\$12,977,498	\$216,054	\$13,193,552
Pharm. & Translational Research			
# Proposals	23	9	32
Total Amount	\$4,810,326	\$562,529	\$5,372,855

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

Table 16: Proposal Processing Comparison

Fiscal Year	Inside the College	Outside the College	Total
FY 12/13			
# proposals	107	30	137
Total Amount	\$41,699,926	\$6,007,828	\$47,707,754
FY 13/14			
# proposals	132	26	158
Total Amount	\$76,405,293	\$3,312,180	\$79,717,473

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

Table 17: Extramural Research Dollars - FY 09/10 to FY 13/14

Department	09/10	10/11	11/12	12/13	13/14	Average 09/10 - 13/14	% of Total 13/14
COLLEGE TOTAL	\$10,550,670	\$10,621,827	\$8,983,763	\$9,380,749	\$12,162,144	\$10,339,831	100.00%
F&A	\$1,944,971	\$2,374,018	\$1,688,991	\$1,802,312	\$2,552,127	\$2,072,484	100.00%
# grants	101	99	99	102	119	104	
%F&A	22.6%	28.8%	23.2%	23.8%	26.6%	25.0%	
Medicinal Chemistry	\$1,949,202	\$2,685,604	\$1,501,112	\$2,229,065	\$2,642,235	\$2,201,444	21.73%
F&A	\$474,817	\$539,078	\$338,066	\$544,804	\$683,146	\$515,982	26.77%
# grants	10	12	10	16	14	12	
%F&A	32.2%	25.1%	29.1%	32.3%	34.9%	30.7%	
Pharmaceutics	\$1,249,516	\$1,327,201	\$787,275	\$1,048,137	\$2,777,028	\$1,437,831	22.83%
F&A	\$268,065	\$298,882	\$115,211	\$169,177	\$485,327	\$267,332	19.02%
# grants	17	14	13	22	21	17	
%F&A	27.3%	29.1%	17.1%	19.2%	21.2%	22.8%	
Pharmacodynamics	\$1,422,553	\$1,343,491	\$1,737,022	\$913,737	\$997,122	\$1,282,785	8.20%
F&A	\$403,359	\$389,791	\$502,161	\$284,523	\$267,494	\$369,466	10.48%
# grants	15	14	18	11	15	15	
%F&A	39.6%	40.9%	40.7%	45.2%	36.7%	40.6%	
Pharm. Outcomes and Policy	\$1,189,754	\$394,685	\$913,075	\$995,881	\$1,655,173	\$1,029,714	13.61%
F&A	\$81,474	\$94,293	\$56,126	\$154,504	\$360,329	\$149,345	14.12%
# grants	11	11	12	12	12	12	
%F&A	7.4%	31.4%	6.5%	18.4%	27.8%	18.3%	
Pharm. & Trans. Research	\$4,739,645	\$4,870,847	\$4,045,279	\$4,193,929	\$4,090,587	\$4,388,057	33.63%
F&A	\$717,256	\$1,051,974	\$677,428	\$649,305	\$755,831	\$770,359	29.62%
# grants	48.0	48.0	46.0	41.0	57.0	48	
%F&A	17.8%	27.5%	20.1%	18.3%	22.7%	21.3%	

F&A = Facilities and Administrative Costs

Table 18: Total Extramural Support - FY 09/10 to FY 13/14

Dept.	09/10	10/11	11/12	12/13	13/14	Average 09/10 - 13/14
COLLEGE TOTAL	\$10,631,032	\$10,621,827	\$8,983,763	\$9,380,749	\$12,162,144	\$10,355,903
F&A	\$1,944,971	\$2,374,018	\$1,688,991	\$1,802,312	\$2,552,127	\$2,072,484
# grants	103	99	99	102	119	104.4
%F&A	22.4%	28.8%	23.2%	23.8%	26.6%	24.9%
RESEARCH	\$10,550,670	\$10,621,827	\$8,983,763	\$9,380,749	\$12,162,144	\$10,339,831
F&A	\$1,944,971	\$2,374,018	\$1,688,991	\$1,802,312	\$2,552,127	\$2,072,484
# grants	101	99	99	102	119	104
%F&A	22.6%	28.8%	23.2%	23.8%	26.6%	25.0%
ADMINISTRATION	\$80,362	\$0	\$0	\$0	\$0	\$16,072
F&A	\$0	\$0	\$0	\$0	\$0	\$0
# grants	2	0	0	0	0	0.4
%F&A	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

F&A = Facilities and Administrative Costs

Outlined below in **Table 19** is a breakdown of the COP extramural support by sponsor type and number of awards for the last two fiscal years. At 42%, just under half of the College’s extramural support comes from Federal Agencies. Federal dollars were earmarked entirely for research purposes and showed an 8.9% increase in dollars in spite of its 12% decrease in the number of awards this year from FY 12/13. State dollars decreased by 15.9%; Corporations and Companies showed a significant increase of 154.5% in dollars received; and Foundation and Society monies also showed a considerable increase of 153.2% in the dollars received compared to FY 12/13. The College experienced an increase of 23.8% 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.

Sponsor Category	FY 12/13		FY 13/14	
	# of awards	Total Dollars	# of Awards	Total Dollars
Federal Agencies	56	\$7,735,028	50	\$8,425,933
Florida State Agencies	5	\$535,658	6	\$450,480
Corporations and Companies	19	\$797,960	34	\$2,031,106
Foundations and Societies	13	\$461,072	18	\$1,167,223
Other	9	\$56,486	11	\$69,902
Total Comparison	102	\$9,586,204	119	\$12,144,644

A more complete breakdown and two-year comparison of sponsor categories, number of awards and total dollars including F&A costs can be seen in **Tables 20-24**. In **Appendix B** a complete listing of all extramural support by Department and Faculty members can be found.

Sponsor	FY 12/13			FY 13/14		
	Count	Total	F&A	Count	Total	F&A
AHCA/CMS				4	\$412,999	\$82,599
AHRQ	1	\$26,212	\$8,620	1	\$42,189	\$2,209
BARDA - CUBRC				1	\$12,500	\$2,500
Centers for Med/Med Serv - FL Med Qual Assurance	1	\$571,548	\$114,310			
Center for Dis Control & Prevention	1	\$18,200	\$5,985			
Department of Defense				1	\$785,514	\$249,567
Food & Drug Administration				5	\$1,785,365	\$318,349
HRSA - University South Florida				2	\$42,122	\$3,120
NIH	47	\$6,796,426	\$1,419,640	36	\$5,345,244	\$1,220,452
Total Federal Agencies	50	\$7,412,386	\$1,548,555	50	\$8,425,933	\$1,878,796

F&A = Facilities and Administrative Costs

Sponsor	FY 12/13			FY 13/14		
	Count	Total	F&A	Count	Total	F&A
Department of Citrus	1	\$225,000	\$20,455			
Department of Health	3	\$210,658	\$31,056	5	\$442,980	\$48,158
Florida State University				1	\$7,500	\$0
Total Florida State Agencies	4	\$435,658	\$51,511	6	\$450,480	\$48,158

F&A = Facilities and Administrative Costs

Table 22: Corporations and Companies Comparison

Sponsor	FY 12/13			FY 13/14		
	Count	Total	F&A	Count	Total	F&A
Abbott Products Operations AG				1	\$1,060	\$235
Aegerion Pharmaceuticals	2	\$77,500	\$15,500	1	\$18,750	\$3,750
AstraZeneca	2	\$121,866	\$38,074	1	\$21,240	\$7,032
Bayer Group				1	\$26,000	\$5,200
Biogen IDEC				1	\$137,500	\$30,496
Boeringer Ingelheim Intl GMBH	1	\$100,000	\$20,000			
Clinical Research GMBH	1	\$14,034	\$1,276			
Compleware Corporation	4	\$75,358	\$15,072	9	\$141,102	\$28,220
Daichi Sanyko Pharma Dev	1	\$150,000	\$30,000			
Denali Biotechnologies, LLC	1	\$2,500	\$0			
Eli Lilly & Co	1	\$40,000	\$0			
Gilead Sciences				1	\$89,850	\$19,950
Glaxo SmithKline, Inc	1	\$0	\$0	3	\$179,153	\$45,411
Golin-Harris Int'l, Inc	1	\$5,000	\$1,000	1	\$5,000	\$1,000
Jacobus Pharmaceuticals	1	\$54,450	\$10,890	1	\$35,000	\$7,000
Media Pharma GMB & CO KG						
Merck - Univ of Texas						
Micormedic Technologies						
Parexel International Corp	1	\$2,500	\$500	8	\$51,457	\$10,291
Pfizer, Inc	1	\$100,000	\$0	1	\$100,000	\$0
Sideris Pharmaceuticals				1	\$900,000	\$300,000
Simulations Plus				1	\$58,750	\$11,750
Sun Biopharma	1	\$49,024	\$8,171			
Takeda Pharmaceuticals Int'l				1	\$150,000	\$33,268
Teva Pharmaceuticals USA				2	\$116,145	\$23,229
Watson Pharmaceuticals	1	\$5,728	\$521			
Wyle Laboratories						
Total Corporations and Companies	20	\$797,960	\$141,003	34	\$2,031,007	\$526,833

F&A = Facilities and Administrative Costs

Table 23: Foundations and Societies Comparison

Sponsor	FY 12/13			FY 13/14		
	Count	Total	F&A	Count	Total	F&A
Adventist Health System Sunbelt				1	43979	14463
American Cancer Society	2	\$41,492	\$1,915			
Am. Dental Association Foundation				1	\$11,813	\$2,620
Am. Foundation for Pharmaceutical Edu	5	\$20,500	\$0	1	\$3,250	\$0
American Heart Association	1	\$22,180	\$0	4	\$211,500	\$14,500
Am. Society of Health Sys Pharm Fdtn	1	\$235,463	\$17,442	1	\$235,028	\$17,410
Brigham & Women's Hospital				1	\$5,610	\$1,859
Calspan-Univ Buffalo Res Cntr (CUBRC)	5	\$117,188	\$23,438			
Critical Path Institute				3	\$341,211	\$31,019
Cystic Fibrosis Foundation	1	\$1,500	\$0			
Natl Fdtn Centers Dis Ctrl & Prevention	1	\$89,137	\$6,602			
Oak Ridge Association of Universities	1	\$800	\$0			
PhRMA Foundation				2	\$150,000	\$0
Shands Teaching Hospital				1	\$56,436	\$0

Table 23: Foundations and Societies Comparison (cont.)

Sponsor	FY 12/13			FY 13/14		
	Count	Total	F&A	Count	Total	F&A
Schlumberger Foundation	1	\$50,000	\$0	1	\$50,000	\$0
UF Foundation				1	\$25,000	\$0
University of California -SD				1	\$33,396	\$4,356
Total Foundations and Societies	18	\$578,260	\$49,397	18	\$1,167,223	\$86,227

F&A = Facilities and Administrative Costs

Table 24: Other Comparison

Sponsor	FY 12/13			FY 13/14		
	Count	Total	F&A	Count	Total	F&A
Drexel University				2	\$25,680	\$0
Embassy Arab Rep Egypt	1	\$10,000	\$0	1	\$9,500	\$0
MOI University College of Health Sci				1	\$2,981	\$221
Miscellaneous Donors	1	\$134	\$0			
Multiple Sponsors	6	\$26,352	\$5,270	6	\$26,741	\$5,348
University of Lisbon	1	\$20,000	\$6,577			
University South Alabama				1	\$5,000	\$1,000
Total Other	9	\$56,486	\$11,847	11	\$69,902	\$6,569

F&A = Facilities and Administrative Costs

Clinical Laboratory Income

The Infectious Disease Pharmacokinetics Laboratory at the University of Florida (IDPL) has a clinical and research focus on the treatment of patients with serious infections. The lab, which opened in July 2009 and located in the College of Pharmacy, is part of the Emerging Pathogens Institute. The IDPL serves as a national reference center for the determination of serum concentrations for the ant mycobacterial, antifungal, and anti-HIV drugs, as well as linezolid. The lab also measures vitamin D. The IDPL provides therapeutic drug monitoring to physicians and their patients, and it provides research study support to investigators, using high-performance liquid chromatography and gas chromatography.

The clinical lab, working in cooperation with the Shands Clinical Laboratory, is CLIA licensed and College of American Pathologists (CAP) Certified. This year's clinical income had an increase of 7.4% (**Table 25**).

Table 25: Clinical Laboratory Income

FY 12/13	FY 13/14
\$438,100	\$470,475

Licensing and Royalty Income

Through licensing and maintenance fees the College of Pharmacy generated a total of \$171,107 in revenues during FY 13/14. These monies were distributed to the College as outlined in the UF IP distribution policy.

Graduate Student Research Activities

Ms. Michelle Bousquet, a graduate student in the Department of Medicinal Chemistry working with Dr. Hendrik Luesch, has been awarded an A*STAR Research Attachment Programme (ARAP) Scholarship by the **Agency for Science, Technology and Research (A*STAR)**. The scholarship is to study abroad in Singapore for one year at an A*STAR Research Institute and will provide support for living expenses, airfare and medical insurance.

Ms. Shin-Wen (Shirley) Chang, a graduate student in the Department of Pharmacotherapy & Translational Research working with Dr. Rhonda Cooper-DeHoff, has been awarded the **American Society for Clinical Pharmacology and Therapeutics (ASCPT) 2014 Presidential Trainee Award** for her abstract entitled "*A Pharmacogenomic Genome-wide Association Study (GWAS) for New Onset Diabetes (NOD) in the International Verapamil SR-Trandolapril Study (INVEST)*". This award provided a commemorative plaque, complimentary registration and a \$500 travel award to attend

the 2014 ASCPT Annual Meeting in Atlanta, GA in March 2014. Shirley was also awarded a certificate and a \$200 award as one of the winners in the poster competition of the **University of Florida's Graduate Student Research Day** in September 2013 for this same poster.

Ms. Nivea Falcao, a graduate student in the Department of Pharmaceutics working with Dr. Hartmut Derendorf, was awarded the **American College of Clinical Pharmacology (ACCP) Student/Trainee Award** which consisted of a \$1,000 honorarium, a commemorative plaque and complimentary registration to attend the American College of Clinical Pharmacology (ACCP) Annual Meeting and Awards Dinner in Atlanta, GA in September 2014 where she will present her poster entitled "*Assessment of Antileishmanial Activity of Pyrazinamide by In vitro Time-kill Curve Experiments against Leishmania Amazonensis*".

Ms. Caitlin Knox, a graduate student in the Department of Pharmaceutical Outcomes and Policy working with Dr. Almut Winterstein, was awarded a complimentary registration and a \$400 travel award from the **Society of Epidemiologic Research (SER)** for her research project entitled "*Validation of Mother-infant Linkage using Medicaid Chase ID Variable within the Medicaid Analytic Extract (MAX) Database*" to attend the SER 47th Annual Meeting in Seattle, WA in June 2014.

Ms. Rana Montaser, a graduate student in the Department of Medicinal Chemistry working with Dr. Hendrik Luesch, was selected as one of only two national winners of the **American Society of Pharmacognosy (ASP) 2013 Student Research Award** for her poster entitled "*Modular Strategies for Structure and Function Employed by Marine Cyanobacteria: Characterization and Synthesis of Piticoic Acids*". Rana received an engraved commemorative plaque and a cash award at the ASP 2013 Annual Meeting in St. Louis, MO in July 2013.

Mr. Anandharajan Rathinasabapathy, a graduate student in the Department of Pharmacodynamics working with Dr. Michael Katovich, was awarded a \$400 travel award from the **University of Florida Office of Research** to attend the American Thoracic Society to attend the American Thoracic Society (ATS) International Conference that was held in San Diego, CA in May 2014. At the ATS conference Anandharajan won \$500 for best abstract entitled "*Beneficial Role of Secretions of Adipose Derived Stem Cells in Improving Ventricular Dynamics, Cardiac Remodeling, and Inflammatory Stress Associated with Pulmonary Hypertension*". In addition, Anandharajan also received a certificate and a \$200 award as one of the winners in the poster division of the **University of Florida's Graduate Student Research Day** in September 2013 for his poster entitled "*Stem Cell Therapy Improves Right Ventricular Dysfunction Associated with Pulmonary Hypertension*".

Mr. Mohamed Shahin, a graduate student in the Department of Pharmacotherapy & Translational Research working under Dr. Julie Johnson, has received a two-year \$52,000 predoctoral fellowship from the Greater Southeast Affiliate of the American Heart Association for his project entitled "*Using Different OMICS for Identification of Novel Biomarkers of Blood Pressure Response to Antihypertensive Drugs*".

Ms. Marina Suzuki, a graduate student in the Department of Pharmacotherapy & Translational Research working with Dr. Reginald Frye, received a \$2,000 cash award from the **Association for Academic Women Emerging Scholar** competition.

Professional Student Research Activities

Ms. Andrea Cameron, and **Ms. Rachel Huhn**, both professional students in our PharmD program, as well as **Ms. Vivian Stephanie Wong**, an undergraduate student in the HHMI Science for Life program working under the mentorship of Dr. Xin Qi, have all been awarded a full scholarship for the **12th Annual Disparities in Health in America: Working toward Social Justice** Workshop that was held Summer 2014 in Houston, TX.

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 offers a series of "**Problems in Pharmacy**" courses that expose students to various aspects of the research process. Each department in the College offers a "**Problems in Pharmacy**" course that is designed to specifically target their individual research areas. In addition to the "**Problems in Pharmacy**" courses, professional students interested in research select faculty mentors and submit grant or fellowship applications to outside funding agencies to support their research efforts. This year we didn't have any professional students who secured extramural funding.

The College of Pharmacy is dedicated to increasing the number of professionally trained pharmacists to consider a career in academic pharmacy and pharmaceutical/biomedical research. We have found that providing an environment for training of PharmD students very early in their professional degree program has been successful in directing future graduates to careers in research. In following, the College provided a 10-week, full-time paid summer internship of \$4,500 to both first (1PD) and second (2PD) year PharmD students. The recipients of the summer internships are:

Student Name	Campus	Mentor
Carr, Amy	Gainesville	Dr. John Markowitz
Chen, Tine	Gainesville	Dr. Sihong Song
Dahl, Keely	Gainesville	Dr. Hartmut Derendorf
Derby, Robin	Gainesville	Dr. Charles Peloquin
Dhaliwal, Aman	Gainesville	Dr. Richard Segal
Downey, April	Gainesville	Dr. Anne Schentrup
Downing, Lauren	Gainesville	Dr. Jamie Kisgen
Gawronski, Brian	Gainesville	Dr. Rhonda Cooper-DeHoff
Giblin, Erika	Gainesville	Dr. Rhonda Cooper-DeHoff
Hundley, Lauren	Gainesville	Dr. Earlene Lipowski
John, Melissa	Gainesville	Dr. Richard Segal
Joseph, Aaron	Gainesville	Dr. Leslie Hendeles
Khazraee, Maryam	Gainesville	Dr. Almut Winterstein
Kim, Kristin	Gainesville	Dr. Leslie Hendeles
Maas, Brian	Gainesville	Dr. Guenther Hochhaus
Mertz, Paul	Gainesville	Dr. Ken Sloan
Munoz, Juliana	Gainesville	Dr. John Markowitz
Nocito, Brian	Gainesville	Dr. Margaret James
Oswalt, Allison	Gainesville	Dr. Michael Katovich
Patel, Krishna	Gainesville	Dr. Anna Hall
Rose, Crystal	Gainesville	Dr. Almut Winterstein
Ryan, Brendan	Gainesville	Dr. Joanna Peris
Sherwood, Michael	Gainesville	Dr. Reginald Frye
Tran, Trung	Gainesville	Dr. Cindy Qi
Verbosky, Lauren	Gainesville	Dr. Anne Schentrup
Zambrano, Daniel	Gainesville	Dr. Julie Johnson
Zeringue, Katelyn	Gainesville	Dr. Maureen Keller-Wood
AbuSawwa, Renad	Jacksonville	Dr. John Lima
Morales, James	Jacksonville	Dr. Kathy Baldwin
Morgan, Megan	Jacksonville	Dr. Lisa Horkan
Wieruszewski, Patrick	Jacksonville	Dr. John Lima
Edmond, Cecily	Orlando	Dr. Gregory Roth
Hennemann, Sarah	Orlando	Dr. Larry Lesko
Smith, Charles	Orlando	Ms. Kathy Hann

Post-doctoral Fellow Research Activities and Awards

Dr. Patrick Cogen, a post-doctoral fellow in the Department of Pharmacotherapy & Translational Research working with Dr. Katherine Vogel-Anderson, was awarded a \$500 **American College of Clinical Pharmacology (ACCP) Resident/Fellow Travel Award** to attend the Annual Meeting in Atlanta, GA in September 2014.

Dr. Puneet Gaitonde, a post-doctoral fellow in the Department of Pharmaceutics, Center for Pharmacometrics and System Pharmacology working with Dr. Stephan Schmidt, was awarded the **American College of Clinical Pharmacology (ACCP) Student/Trainee Award** which consisted of a \$1,000 honorarium, a commemorative plaque and complimentary registration to attend the American College of Clinical Pharmacology (ACCP) Annual Meeting and Awards Dinner in Atlanta, GA in September 2014 where he will present his poster entitled “*Development of a Drug-disease Model for Type 2 Diabetes Mellitus*”.

Dr. Ravi Singh, a post-doctoral fellow in the Department of Pharmaceutics working with Dr. Hartmut Derendorf, was awarded the **American College of Clinical Pharmacology (ACCP) Student/Trainee Award** which consisted of a \$1,000 honorarium, a commemorative plaque and complimentary registration to attend the American College of Clinical Pharmacology (ACCP) Annual Meeting and Awards Dinner in Atlanta, GA in September 2014 where he will present his poster entitled “*A Need to Revisit the Clinical Breakpoint of Tigecycline: Effect of Atypical Nonlinear Plasma Protein Binding*”.

Dr. Amit Somani, a post-doctoral fellow in the Department of Pharmaceutics, Center for Pharmacometrics and System Pharmacology working with Dr. Stephan Schmidt, was awarded the **American College of Clinical Pharmacology (ACCP) Student/Trainee Award** which consisted of a \$1,000 honorarium, a commemorative plaque and complimentary registration to attend the American College of Clinical Pharmacology (ACCP) Annual Meeting and Awards Dinner in Atlanta, GA in September 2014 where he will present his poster entitled “*Evaluation of Changes in Oral Drug Absorption in Preterm Neonates*”.

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U.S.-Thai Consortium Activities

History of the U.S.-Thai Pharmacy Consortium

In 1993, the University of Florida College of Pharmacy, along with nine other U.S. Pharmacy Schools and the American Association of Colleges of Pharmacy, signed a Memorandum of Agreement (MOA) with all nine (at that time) Thailand Colleges of Pharmacy which together designated the U.S.-Thai Pharmacy Consortium Agreement. The Official website of this consortium can be found at: <http://usthai.pharmacy.psu.ac.th/index.php>. Since then, the number of Thai schools in the consortium has doubled to 18 as well as the addition of seven U.S. schools who have joined the Consortium. Please see the current listing below of current members of the consortium. In 2008 a new MOA was renewed for an additional 14 years.

The mission of the U.S.-Thai consortium is to foster a formal link, on an institutional basis, in recognition of the long-term development plan of the Ministry of University Affairs to enhance academic, research, and clinical programs of their Schools of Pharmacy and Pharmaceutical Sciences by providing 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. The long-term goal of the program is to expand the number of pharmacy school and pharmacy faculty members in Thailand, and the subsequent training of additional pharmacists for practice; thereby, strengthening both pharmacy education and practice to improve the health and welfare of the Thai people.

From its conception in 1993 until 2008, the Associate Dean for Research and Administrative Affairs had served as the principal liaison for the college. Since 2008 Dr. Earlene Lipowski has been serving in this role. 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; Purdue University in 1995; Phuket, Thailand in 1996; Baltimore, MD in 1997; Chiang Mai, Thailand in 1998; Orlando, FL in 2000; Bangkok, Thailand in 2002; Chicago, IL in 2004; Bangkok, Thailand in 2007; Madison, Wisconsin in 2008; and Phuket, Thailand in 2011. The 20th anniversary meeting of the consortium was held in Baltimore, MD at the University of Maryland School of Pharmacy from May 28-30, 2014. (see below [U.S.-Thai Pharmacy Education Consortium Meeting](#)).

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

Thailand

1. Burapha University
2. Chiang Mai University
3. Chulalongkorn University
4. Eastern Asia University
5. Huachiew Chalermprakiet University
6. Khon Kaen University
7. Mahasarakham University
8. Mahidol University
9. Naresuan University
10. Payap University
11. Phayao University
12. Prince of Songkla University
13. Rangsit University
14. Siam University
15. Srinakharinwirot University
16. Silpakorn University
17. Ubon Ratchathani University
18. Walailak University

United States

1. Auburn University
2. Ohio State University
3. Purdue University
4. University of Arizona
5. University of Florida
6. University of Illinois – Chicago
7. University of Iowa
8. University of Kentucky
9. University of Maryland - Baltimore
10. University of Minnesota
11. University of North Carolina – Chapel Hill
12. University of Texas – Austin
13. University of Utah
14. University of Washington
15. University of Wisconsin – Madison
16. West Virginia University
17. American Association of Colleges of Pharmacy

U.S.-Thai Pharmacy Education Consortium Meeting

The US-Thai Consortium for the Development of Pharmacy Education in Thailand celebrated its 20th anniversary with a three-day conference at the University of Maryland School of Pharmacy held May 28-30. Sponsored by the School and the American Association of Colleges of Pharmacy (AACP), the conference offered an opportunity for attendees to reflect on the Consortium's past achievements and develop a plan for the future. It was attended by approximately 120 faculty, staff, and

students from schools of pharmacy across the United States and Thailand. The University of Florida Dr. Earlene Lipowski, a member of this year's conference Steering Committee and Dr. Sven Normann, Assistant Dean for Pharmacist Education and International Affairs.

At the meeting UF delegates had the opportunity to meet the two Thai faculty who will be joining our College this year. Dr. Uraiwan Akanit will be coming from the University of Maryland for a PGY2 resident with Anne Snyder. Thakul Rattanasuwan from Chulalongkorn University will be enrolling in the PharmD program with the long range goal of completing both PGY1 and PGY2 residencies in the US and returning to Thailand as BCPS certified clinical faculty member. A summary of the 2014 conference and be found at

<https://rxsecure.umaryland.edu/apps/news/story/view.cfm?id=482&CFID=4500589&CFTOKEN=3801a23b49594182-A6267288-088E-01A8-E63599926A054C01>. This information is provided by the University of Maryland Baltimore.

After the Consortium Conference, Dr. Sindhchai Keokitichai, Dean and Dr. Kampanart Huanbut, Assistant Dean from Burapha University Faculty of Pharmacy accepted our invitation to attend the 10th International Life Long Learning in Pharmacy Conference in Orlando, Florida on June 2-5, 2014. This conference was hosted by the University of Florida College of Pharmacy.

Thai Students in the College of Pharmacy

Listed below (**Table 26**) are the Thai students enrolled during FY 13/14. We have two students who are recipients of the Royal Thai Scholarship from their government to study abroad for their Ph.D. degree.

Table 26: Thai Students			
Name	Department	THAI Pharmacy College	Date Entered
Prasanchaimontri, Ing-orn	Pharmaceutics	Chulalongkorn University	FY 12/13
Khaowroongrueng, Vipada	Pharmaceutics	Chulalongkorn University	FY 13/14

* not a Royal Thai Scholar

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ORGS Coordinated Events

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

Post-baccalaureate Reception

The annual Post-baccalaureate Reception is held at the beginning of the Fall Semester as an event to introduce all **new** faculty, graduate students, post-doctoral fellows and research associates to the COP community. This year the event was held on Wednesday, September 18, 2013, in the Grand Ballroom at the Reitz Student Union from 6:00 PM to 8:00 PM. This year we had 155 faculty, staff and students. At the reception this year 23 new graduate students, 14 new faculty members, and a number of new post-doctoral fellows, research associates and visiting scientists were introduced to the college.

Annual Research Showcase and Awards Recognition Day

The 27th Annual Research Showcase and Awards Recognition Day took place on Thursday, February 20, 2014, at the University of Florida, College of Pharmacy. A program booklet ([Appendix C](#)) is included that outlines the day's events, a complete list of competitors for each of the divisions and the judges for each of the events.

This year's Showcase and Awards Recognition Day could not have taken place without the financial backing of our many sponsors. Our major sponsor this year was **Dr. Russell Weiner** through **Merck**, Rahway, NJ. Other longtime supporters were **Dr. David W. Newton** (Class of 1976) of Winchester, VA; **Dr. Philip and Patricia Burton** (Class of 1981) of Galesburg, MI; **Dr. Howard Thomas Karnes** (Class of 1984) of Richmond, VA; **Dr. Kerry Estes** through **PK-P'Dyne, Inc.**, Gainesville, FL; **Dr. Stephan Schmidt** (Class of 2008) of Orlando; and **Dr. Robert A. and Phyllis Levitt** (Class of 1961) of Boca Raton and Gainesville, FL sponsoring the *Levitt Division* of the Oral Competition.

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

Oral Competition

- Senior Graduate Division
- Junior Graduate Division
- Levitt Division

Poster Competition

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

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

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

Judges for the oral competition were: **Dr. Robert Huigens**, Assistant Professor, Department of Medicinal Chemistry, College of Pharmacy; **Dr. Deanna L. Kroetz**, Professor, Bioengineering and Therapeutic Sciences, School of Pharmacy and Medicine, University of California San Francisco; and **Dr. Caitrin McDonough**, Research Assistant Professor, Department of Pharmacotherapy & Translational Research, College of Pharmacy; and **Dr. Stacy A. Voils**, Clinical Assistant Professor, Department of Pharmacotherapy & Translational Research, College of Pharmacy.

The winners of the oral competition are:

Senior Division – winner

Bhargava Kandala	Pharmaceutics	\$600 cash award
Title: "Application of Modeling and Simulation in Clinical Dose Selection during First in Human (FIH) Phase-I Clinical Trial"		

Senior Division – finalists

Erin Jackson	Medicinal Chemistry	\$300 cash award
Title: "Glucuronidation of Triclosan in Human Liver Microsomes and Expressed UDP-glucuronosyltransferases (UGTs)"		

Marina Kawaguchi-Suzuki Pharmacotherapy & Translational Research \$300 cash award
Title: “Pharmacodynamic Association of Pioglitazone and its Active Metabolites with Liver Outcomes among Patients Diagnosed with Nonalcoholic Steatohepatitis”

Junior Division – winner

Mohamed Shahin Pharmacotherapy & Translational Research \$600 cash award
Title: “Integrating Pharmacometabolomics with Pharmacogenomics Reveals a Novel Biomarker Associated with Blood Pressure Response in Hydrochlorothiazide Treated Patients”

Junior Division – finalists

Michelle Suzanne Bousquet Medicinal Chemistry \$300 cash award
Title: “Probing the Cytoprotective Nrf2-ARE Pathway using Natural Product and Genomic Based Approaches”

Ahmed Elshikha Pharmaceutics \$300 cash award
Title: “Therapeutic Potentials of Human α -1 Antitrypsin (hAAT) for the Treatment of Lupus-The Effect on Dendritic Cell (DC) Maturation and its Functions”

Kaley MacFadyen Pharmacodynamics \$300 cash award
Title: “Oxytocin Inhibits Ethanol Intake Possibly via a Direct Effect on Mesolimbic Dopamine Neurons”

Levitt Division – winner

Xinyue Liu Pharmaceutical Outcomes and Policy \$600 cash award
Title: “Development of a Novel Approach to Assess Psychotropic Polypharmacy in Administrative Databases”

Levitt Division – finalist

Wei Liu Pharmaceutical Outcomes and Policy \$300 cash award
Title: “Utilization Pattern of Phosphodiesterase Type 5 Inhibitors for Erectile Dysfunction among Commercially Insured Adults in the United States: Analysis of Health Plan Member Claims”

For the poster competition this year we had 67 posters from graduate students, professional 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. Larisa H. Cavallari**, Associate Professor, Department of Pharmacy Practice, College of Pharmacy, University of Illinois at Chicago; **Dr. Eric A. Dietrich**, Assistant Professor, Department of Pharmacotherapy & Translational Research, College of Pharmacy; **Dr. Yousong Ding**, Assistant Professor, Department of Medicinal Chemistry, College of Pharmacy; **Dr. Aline Hilzenderger**, Assistant Research Scientist, Department of Pharmacodynamics, College of Pharmacy; **Dr. Carrie A. Lagassee**, Clinical Specialist – Drug Policy, Development and Resource Utilization, UF Health Shands Hospital; **Dr. Yanxia Liu**, Assistant Scientist, Medicinal Chemistry, College of Pharmacy; **Dr. Haesuk Park**, Associate Professor, Pharmaceutical Outcomes and Policy, College of Pharmacy; **Dr. Kevin Raisch**, Assistant Professor, Otolaryngology, College of Medicine; **Dr. Anzeela M. Schentrup**, Clinical Assistant Professor, Pharmacotherapy & Translational Research, College of Pharmacy; **Dr. Marek Schwendt**, Research Assistant Professor, Psychology, College of Liberal Arts and Sciences.

The winners of the poster competition are:

Graduate Student Division – winners

Aline Bergesch Barth Pharmaceutics \$300 cash award
Title: “Levofloxacin Dose Optimization for Multidrug Resistant Tuberculosis based on Lung Microdialysis in Patients”

Anandharajan Rathinasabapathy Pharmacodynamics \$300 cash award
Title: “Secretions of Adipose Derived Stem for the Treatment of Monocrotaline Induced Pulmonary Hypertension”

Lei Wang Pharmacodynamics \$300 cash award
Title: “Angiotensin Converting Enzyme 2 Acts in the Brain to Decrease Anxiety-like Behavior and Stress-induced Activation of the Hypothalamic-Pituitary-Adrenal Axis”

Guo Zhong Medicinal Chemistry \$300 cash award
Title: “Chloride and Other Anions Inhibit Dichloroacetate-induced Anactivation of Human Liver GSTZ1 in a Haplotype-dependent Manner”

Professional Student Division – winners

Emily McCleary Professional Student/Gainesville Campus \$300 cash award
Title: “Outcomes Associated with *Clostridium difficile* in Neutropenic Oncology Patients”

Post-doctoral Fellow Division – winner

Stephan Jahn Medicinal Chemistry \$300 cash award
Title: “The Roles of Chloride and GSTZ1 in the Metabolism of Dichloroacetate”

Issam Hamadeh Pharmacotherapy and Translational Research \$300 cash award
Title: “A Novel Simple Method for Determining CYP2D6 Copy Number and Identify Alleles with Duplication/Multiplication”

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 Associate Dean for Research and Administrative Affairs served on various College, Health Science Center and University Committees throughout the academic year.

COLLEGE COMMITTEES

- **Executive Council**: This committee met each week throughout the year to discuss and make decisions on 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 Research Committee**: The Associate Dean serves as chair of the College Research Committee. The research committee was established to prepare a written policy document on allocation and reallocation of research and office space, as well as critical review and direction of all research activities in the College. The committee is also a decision making committee on “limited application programs”. Sponsors are restricting the number of applications an institution can submit in response to many funding opportunities. The Research Committee will be involved in selecting the proposal (or proposals) that will be submitted in response to a limited application program back to the Division of Sponsored Research for selection at the University level. The Committee also selects college finalists for the various research awards offered through the University. This committee met four times this academic year.
- **Faculty Governance Council**: The Associate Dean serves as a non-voting *ex-officio* member of the Faculty Governance Council. The Faculty Governance Council (FGC) is comprised of faculty and college administration, who together make policies relevant to the faculty. The FGC met nine times this past year.

HEALTH SCIENCE CENTER (HSC) COMMITTEES

- **HSC Research Dean’s Group**: This committee met monthly throughout the year to discuss relevant issues related to both basic and clinical research within the HSC and University.
- **Anatomical Specimen Task Force**: This committee met twice throughout the year to consider current and future policies and use of cadavers and human specimens within the HSC teaching facilities.

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 Associate Dean this past year served as the Chair of the Committee until October of 2013. This committee met monthly to provide recommendations to UF entities related to policies related to UF land use and facilities development. The breadth of this committee considered the land use for new building sites as well as planning for proposed renovation of existing buildings.
- **Academic Infrastructure Council**: As chair of the Land Use and Facilities Planning Committee the Associate Dean is also a member of the Senate’s Academic Infrastructure Council. This council’s area encompasses the University’s infrastructure supporting the University’s academic mission, including the provision of physical facilities and other physical resources; libraries; information technology; the campus master plan; and the availability of adequate computer, classroom, laboratory and other resources. This Committee met monthly throughout the Fall and Spring Semesters of 2013-2014.

Conferences Attended Related to ORGS and COP Activity

- **NCURA Annual Meetings:** The Grants Specialist attended the 2013 National Council of University Research Administrators (NCURA) 55th Annual Meeting in Washington, DC from August 4th to August 7th, 2013 as well as the 8th Annual Pre-Award Research Administration Conference in San Francisco, CA from March 18th to March 20th, 2014.

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Appendices

Section

A = Letter to Graduate Applicants

B = Complete Listing of Extramural Support by Department and Faculty

C = 27th Annual Research Showcase and Awards Recognition Day Booklet

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Dear Applicant:

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

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

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

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

Graduate Program in Medicinal Chemistry

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

Graduate Coordinator: Dr. Hendrik Luesch
Department of Medicinal Chemistry
PO Box 100485
College of Pharmacy, University of Florida
Gainesville, Florida 32610-0485
(352) 273-7738, E-mail: luesch@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. Tony Palmieri
Department of Pharmaceutics
PO Box 100494
College of Pharmacy, University of Florida
Gainesville, Florida 32610-0494
(352) 273-7868, E-mail: palmieri@cop.ufl.edu

Training Program in Clinical Pharmaceutical Sciences

The Clinical Pharmaceutical Sciences training program is a collaborative effort between the Departments of [Pharmacotherapy & Translational Research](#) and [Pharmaceutics](#). The goal of the Clinical Pharmaceutical Sciences training program is to prepare motivated individuals to pursue independent research careers in academia, industry, or government. The current research focus of the program is on understanding genetic and non-genetic factors that contribute to variability in drug response.

Selected areas of research include cardiology, infectious disease, asthma/pulmonary, psychiatry, and clinical pharmacology/drug metabolism. Students in the program conduct hypothesis-driven clinical research that includes a strong laboratory element. Excellent research facilities are available including state-of-the art bioanalytical and pharmacogenomics laboratories, and an NIH-funded [Clinical and Translational Science Institute](#) for clinical study conduction.

Graduate Coordinator: Dr. Taimour Langae
Department of Pharmacotherapy & Translational Research
Box 100486
College of Pharmacy, University of Florida
Gainesville, Florida 32610-0486
(352) 273-6357, E-mail: langae@cop.ufl.edu

Graduate Program in Pharmaceutical Outcomes and Policy

Research and graduate programs in the Department of Pharmaceutical Outcomes and Policy offers a unique blend of research and training in patient safety, pharmacoepidemiology, pharmacoconomics, and social-behavioral issues surrounding medication use.

Graduate Coordinator: Dr. Almut Winterstein
Department of Pharmaceutical Outcomes and Policy
PO Box 100496
College of Pharmacy, University of Florida
Gainesville, Florida 32610-0496
(352) 273-6258, E-mail: almut@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. Jason Frazier
Department of Pharmacodynamics
PO Box 100487
College of Pharmacy, University of Florida
Gainesville, Florida 32610-0487
(352) 273-7686, E-mail: Frazier@cop.ufl.edu

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

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

Respectfully,



William J. Millard, Ph.D.
Associate Dean for Research and Administrative Affairs
University of Florida
College of Pharmacy

Respectfully,



Deborah Stowell
Sr. Grants Specialist
University of Florida
College of Pharmacy

Complete Listing of Extramural Support in the COP for FY 13/14

MEDICINAL CHEMISTRY

Faculty	Amount	Number	Agency	Project Title
Raymond Bergeron	\$611,341	1	National Institute of Health	Iron Chelators Predicated on Desferrithiocin
	\$55,975	1	Northeastern University	Computational Chemistry and Molecular Modeling
	\$900,000	1	Sideris Pharmaceuticals	Synthesis and Biological Evaluation of Chelators
Margaret James	\$267,100	2	National Institute of Health	Developmental Pharmacology of Cytosolic and Mitochondrials GSTZ1-1/MAAI
	\$10,094	1	National Institute of Health	Seafood Hydrocarbon Residues & Coastal Community Health Risks - Project 3
	\$5,000	1	University of South Alabama	Biomarkers of Exposure to Oil-related Chemicals in Gulf of Mexico Fish
Hendrik Luesch	\$191,807	1	Florida Department of Health	Chemistry and Biology of Apratoxins
	\$100,000	1	Florida Department of Health	Development of Scale-up Synthetic Method for Apratoxin S4, Anovel Drug for the Treatment of Colorectal Cancer
	\$401,163	3	National Institute of Health	Novel Targeted Anticancer Agents from Marine Cyanobacteria

PHARMACEUTICAL OUTCOMES AND POLICY

Faculty	Amount	Number	Agency	Project Title
Abraham Hartzema	\$3,250	1	American Foundation for Pharmaceutical Education	Comparative Safety of Alternative Articulating Surfaces in Total Hip Arthroplasty
Folakemi Odedina	\$111,418	1	Florida Department of Health	Community Health Worker Practice Improvement Project for Medication Therapy Magement
	\$7,500	1	Florida State University	Florida Health Equity Research Institute (HERI) - Phase 1
	\$50,000	1	Schlumberger Foundation	Antiretroviral Medication Adherence Behavior of African American Women Living with HIV/AIDS-Investigating the Influence of Perceived Patient-centered Care and Observational Learning
	\$25,000	1	University of Florida Foundation	Prostate Cancer Research at UFSCC
	\$785,514	1	US Army	Development of a Model of Prostate Cancer Care and Survivorship for Black Men: A Grounded Theory Study of Ethnically-diverse Black Men
Haesuk Park	\$89,950	1	Gilead Sciences	Cost Effectiveness of Sofosbvir for Hepatitis C Virus Infection: United States Adaptation Model

PHARMACEUTICAL OUTCOMES AND POLICY (cont.)

Faculty	Amount	Number	Agency	Project Title
Almut Winterstein	\$73,037	1	Agency for Health Care Admin	ADD/ADHD Treatment Pattern in Adult Medicaid Beneficiaries - Project 2
	\$144,355	1	Agency for Health Care Admin	Age-related Effects of Respiratory Syncytial Virus Risk in Children with Chronic Lung Disease
	\$87,932	1	Agency for Health Care Admin	Psychotropic Polypharmacy in Medicaid Beneficiaries
	\$42,189	1	Agency for Healthcare Research and Quality	Pre-Existing Diabetes and Pregnancy
	\$235,028	1	American Society of Health Systems Pharmacists	Development and Validation of a Complexity Score to Identify Hospitalized Patients at High Risk for Preventable Adverse Events

PHARMACEUTICS

Faculty	Amount	Number	Agency	Project Title
Guohua An	\$100,531	1	Critical Path Institute	Pharmacokinetics and Pharmacodynamics of Tuberculosis Drugs in Patients with Active Disease
	\$100,000	1	PhRMA Foundation	Mechanistic Physiologically-based Pharmacokinetic Model and Taxanes from Mice to Humans: Application in Safety Assessment and Anticancer Therapy Optimization
Hartmut Derendorf	\$12,500	1	CUBRC	Model Humanized Doses in African Green Monkey from SD and 14-Day PK Studies, Protein Binding Studies and Human PK Data
	\$52,026	2	Glaxo SmithKline	A Study to Evaluate the Feasibility of Microdialysis to Determine Skin Concentrations of Retapamulin in Healthy Volunteers
	\$127,127	1	Glaxo SmithKline	Master Fellowship Agreement - Clinical Pharmacokinetics/dynamics Fellowship
	\$5,000	1	Golin-Harris International Inc.	Grapefruit-Drug Interactions
	\$100,000	1	Pfizer, Inc.	Pfizer Graduate Fellowship Award
	\$30,498	1	Tetraphase Pharmaceuticals	A Phase 1, Open-label Study to Assess the Single-dose Pharmacokinetics of Eravacycline in Subjects with End Stage Renal Disease and Healthy Subjects: Determination of Plasma Protein Binding
	\$7,200	1	Tetraphase Pharmaceuticals	Consulting Agreement
Guenther Hochhaus	\$50,000	1	Compleware Corporation	Methacholine Stability Testing
	\$188,996	1	FEFA, Inc.	Pharmacokinetic Comparison of Locally Acting Inhaled Drug Products - Part II

PHARMACEUTICS (cont.)

Faculty	Amount	Number	Agency	Project Title
Guenther Hochhaus (cont.)	\$1,418,088	1	Food & Drug Administration	Study to Investigate the Sensitivity of Pharmacokinetics in Detecting Differences in Physicochemical Properties of the Active in Suspension Nasal Products for Local Action
	\$140,583	1	Food & Drug Administration	An Optimized Dissolution Test System for Orally Inhaled Drugs: Development and VA
Lawrence Lesko	\$43,979	1	Adventist Health System Sunbelt	TRI and UF Center for Pharmacometrics and Systems Pharmacology Salary Repayment
	\$137,500	1	Biogen Idec, Inc	Development of an Integrated Multi-Compartment Tissue Disposition Model for Intrathecally Delivered Antisense Oligonucleotides
	\$150,000	1	Takeda Pharmaceuticals International	Application of Population Pharmacokinetic/Pharmacodynamic Modeling and Simulation to Design an Effective Drug Development Program for Demonstrating Longitudinal Weight Loss and Identifying Covariates Influencing Weight Loss Maintenance
Stephan Schmidt	\$18,750	1	Aegerion Pharmaceuticals	Population Pharmacokinetic Assessment of Limitapide in Japanese and Caucasian Volunteers
	\$26,000	1	Bayer Group	Pharmacokinetic Modeling of Oral Drug Absorption in Preterm
	\$58,750	1	Simulations Plus	Parametrization & Qualification of Physiologically-based Pharmacokinetic Models in Children
Sihong Song	\$9,500	1	Embassy of Arab Republic of Egypt	Joint Graduate Program

PHARMACODYNAMICS

Faculty	Amount	Number	Agency	Project Title
Jason Frazier	\$26,000	1	American Heart Association	the Effect of Peripheral Salt Loading on Central Circuits that Regulate Stress
Michael Katovich	\$98,010	1	National Institute of Health	Angiotensin-converting Enzyme 2 and Vascular Endothelial Function
	\$141,848	2	National Institute of Health	CVD Protection Mechanisms Involving ACE2/ANG-(1-7)
Maureen Keller-Wood	\$64,425	4	National Institute of Health	Corpus Luteal Contribution to Maternal Pregnancy Physiology and Outcomes in Art
	\$15,841	1	National Institute of Health	Glucocorticoids, Stress and Blood Pressure Regulation
	\$14,595	1	National Institute of Health	Paraventricular Nucleus Regulatory Mechanisms in Stress and Hypertension
	\$82,500	1	American Heart Association	Increases in Maternal Cortisol Alter the Metabolism and Function of the Fetal Heart at Term

PHARMACODYNAMICIS (cont.)

Faculty	Amount	Number	Agency	Project Title
Eric Krause	\$17,825	1	National Institute of Health	Angiotensin and Neuroimmune Activation in Hypertension
	\$231,852	1	National Institute of Health	Central Antiotensin Receptors and the Neural Control of Homeostasis
	\$84,931	1	University of California	Development of an Animal Model & Novel Treatments for Comorbid PTSD and Cocaine Addiction
Bin Liu	\$224,795	1	National Institute of Health	Role of Microglia in Ehtanol-induced Oxidative Stress
Vinayak Shenoy	\$77,000	1	American Heart Association	Therapeutic Role of ACE2 in Pressure-overload Induced Right Ventricular Dysfunction and Fairlure

PHARMACOTHERAPY & TRANSLATIONAL RESEARCH

Faculty	Amount	Number	Agency	Project Title
Rhonda Cooper-DeHoff	\$1,060	1	Abbott Laboratories	Abbott Professional Services Agreement
	\$30,379	2	Wake Forest University	Women's Health Initiative Extension 2010-2015
Anna Hall	\$50,000	1	PhRMA Foundation	The Effect of Tailored Interventions Driven by Predictive Analytic Modeling on Improving Medication Adherence for Medicare Advantage Prescription Drug Plan Members
Leslie Hendeles	\$37,422	5	Compleware Corporation	A Randomized, 4-treatment, 5-period Pilot Dose Response Study of Inhaled Salmeterol Xinafoate (SX) in Fluticasone Propionate (FP)/SX 100/50 Combination Product in Subjects with Asthma using Methacholine Bronchoprovocation Challenge
	\$53,680	3	Compleware Corporation	A Randomized, Double-blind, 4-treatment, 5-period Pilot Dose Response Study of Inhaled Fluticasone Propionate (FP) in FP/Salmeterol Xinafoate (SX) 100/50, 250/50, and 500/50 Combination Product in Subjects with Asthma using Exhaled Nitric Oxide (eNO)
	\$51,457	8	Parexel International Corp.	A Safety and Benefit Study of Inhaled Fluticasone Propionate/Salmeterol Combination versus Inhaled Fluticasone Propionate in the Treatment of Pediatric Subjects 4-11 Years Old with Persistent Asthma, Protocol Number SAS115358
	\$116,145	2	TEVA Pharmaceuticals USA	Dose-response of Salmeterol Delivered by Advair Diskus in Children: Bioassay by Methacholine Challenge using Oscillometry as the Endpoint
Emily Huesgen	\$42,122	2	University of South Florida	Florida AIDS Education Training Centers

PHARMACOTHERAPY & TRANSLATIONAL RESEARCH (cont.)

Faculty	Amount	Number	Agency	Project Title
Julie Johnson	\$26,000	1	American Heart Association	Using Different OMICS for the Identification of Novel Biomarkers of Blood Pressure Response to Antihypertensive Drugs
	\$917,098	1	National Institute of Health	Genomic Medicine Implementation: The Personalized Medicine Program
	\$1,756,817	3	National Institute of Health	Pharmacogenomic Evaluation of Antihypertensive Responses
	\$22,510	1	Ohio State University	Expression Genetics in Drug Therapy - Aims 3-5
	\$87,900	1	University of Maryland	Pharmacogenomics of Anti-Platelet Interventions-2 Study
	\$7,400	2	University of Pennsylvania	Clarification of Optimal Anticoagulation through Genetics
Tamour Langaec	\$9,439	1	National Institute of Health	Development Pharmacology of Cytosolic and Mitochondrial GSTZ1-1/MAAI
Karen McLin	\$107,675	1	Agency for Health Care Administration	Medicaid Drug Therapy Management Program
	\$56,436	1	Shands Teaching Hospital	Patient-centric, Telephonic MTM Services after Discharge to Reduce Hospital Readmission
Charles Peloquin	\$21,240	1	Astrazeneca	AZD5847 and Metabolites
	\$17,713	1	Boston University	Phase 2 Pharmacodynamic Study of High-dose Levofloxacin in MDR-TB Treatment
	\$5,610	1	Brigham & Women's Hospital	Advanced Neuroimaging Evaluation of the Central Nervous System Biological Changes Associated with Efavirenz Therapy
	\$194,943	1	Case Western Reserve University	Tuberculosis Research Unit
	\$240,680	2	Critical Path Institute	Pharmacokinetics and Pharmacodynamics of Tuberculosis Drugs in Patients with Active Disease
	\$25,680	2	Drexel University	A Novel Diagnostic Test for Poor Anti-TB Drug Bioavailability
	\$10,195	1	Emory University	Intracavitary Drug Levels in Patients with Drug Resistant Tuberculosis
	\$35,000	1	Jacobus Pharmaceutical	A Pharmacokinetic Study of 3,4 DAP in Healthy Volunteers
	\$2,981	1	MOI University College of Health Sciences	The Effect of Third Trimester Pregnancy on the Pharmacokinetics of Efavirenz among TB/HIV Co-infected Pregnant Women in Western Kenya

PHARMACOTHERAPY & TRANSLATIONAL RESEARCH (cont.)

Faculty	Amount	Number	Agency	Project Title
Charles Peloquin (cont.)	\$26,741	6	Multiple Sponsors	Multiple Sponsors
	\$33,396	1	University of California	Wirelessly Observed Therapy
Karen Sando	\$40,000	1	Florida Department of Health	AHEC Tobacco Training and Cessation Program
Anzeela Schentrup	\$11,813	1	American Dental Assoc. Foundation	Testing eMeasures in Pediatric Dentistry

**27th ANNUAL RESEARCH
SHOWCASE AND AWARDS
RECOGNITION DAY**

THURSDAY, FEBRUARY 20TH, 2014



**UNIVERSITY OF FLORIDA
COLLEGE OF PHARMACY**

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SCHEDULE OF EVENTS

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

POSTER COMPETITION

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

11:45am - 12:45pm **Luncheon** – Sponsors and Judges (Dean’s Conference Room, Room 4307, HPNP Building)

ORAL COMPETITION

12:55pm - 1:05pm **Introduction** – Dr. Taimour Langae, Research Associate Professor, Pharmacotherapy & Translational Research (Room C1-15, Communicore Building)

Levitt Division (20 minute presentations)

1:05pm - 1:25pm Wei Liu
1:25pm - 1:45pm Xinyue Liu

Junior Division (15 minute presentations)

1:50pm - 2:05pm Michelle Suzanne Bousquet
2:05pm - 2:20pm Ahmed Elshikha
2:20pm - 2:35pm Kaley MacFadyen
2:35pm - 2:50pm Mohamed Shahin

2:50pm - 3:00pm **BREAK**

Senior Division (20 minute presentations)

3:00pm - 3:20pm Erin Jackson
3:20pm - 3:40pm Bhargava Kandala
3:40pm - 4:00pm Marina Kawaguchi-Suzuki

4:15pm - 5:15pm **Keynote Address** – Deanna L. Kroetz, Ph.D., Professor of Bioengineering and Therapeutic Science; Director, Pharmaceutical Sciences and Pharmacogenomics Graduate Program, Schools of Pharmacy and Medicine, University of California San Francisco, “*Clinical and Functional Pharmacogenomic Studies in Breast Cancer*” (Room C1-15, Communicore Building)

5:15pm - 7:00pm **Awards Reception** – Refreshments and Announcement of Winners (Reception Hall, HPNP Building)

ORAL COMPETITION

LEVITT DIVISION

#1 Presenter: **Wei Liu**
Department: Pharmaceutical Outcomes and Policy
Research Title: Utilization Pattern of Phosphodiesterase Type 5 Inhibitors for Erectile Dysfunction among Commercially Insured Adults in the United States: Analysis of Health Plan Member Claims

#2 Presenter: **Xinyue Liu**
Department: Pharmaceutical Outcomes and Policy
Research Title: Development of a Novel Approach to Assess Psychotropic Polypharmacy in Administrative Databases

JUNIOR DIVISION

#1 Presenter: **Michelle Suzanne Bousquet**
Department: Medicinal Chemistry
Research Title: Probing the Cytoprotective Nrf2-ARE Pathway using Natural Product and Genomic Based Approaches

#2 Presenter: **Ahmed Elshikha**
Department: Pharmaceutics
Research Title: Therapeutic Potentials of Human α -1 Antitrypsin (hAAT) for the Treatment of Lupus-The Effect on Dendritic Cell (DC) Maturation and its Functions

#3 Presenter: **Kaley MacFadyen**
Department: Pharmacodynamics
Research Title: Oxytocin Inhibits Ethanol Intake Possibly via a Direct Effect on Mesolimbic Dopamine Neurons

#4 Presenter: **Mohamed Shahin**
Department: Pharmacotherapy & Translational Research
Research Title: Integrating Pharmacometabolomics with Pharmacogenomics Reveals a Novel Biomarker Associated with Blood Pressure Response in Hydrochlorothiazide Treatment Patients

SENIOR DIVISION

#1 Presenter: **Erin Jackson**
Department: Medicinal Chemistry
Research Title: Glucuronidation of Triclosan in Human Liver Microsomes and Expressed UDP-Glucuronosyltransferases (UGTs)

#2 Presenter: **Bhargava Kandala**
Department: Pharmaceutics
Research Title: Application of Modeling and Simulation in Clinical Dose Selection during First in Human (FIH) Phase-1 Clinical Trial

#3 Presenter: **Marina Kawaguchi-Suzuki**
Department: Pharmacotherapy & Translational Research
Research Title: Pharmacodynamic Association of Pioglitazone and its Active Metabolites with Liver Outcomes among Patients Diagnosed with Nonalcoholic Steatohepatitis

POSTER COMPETITION

- # 1 Therapeutic Potential of Alpha-1 Antitrypsin and Mesenchymal Stem Cells for the Treatment of Osteoporosis**
Presenters: Mohammad Ahsanul Akbar (Pharmaceutics/Graduate Student)
Authors: M Akbar, A Elshikha, Y Lu, M-J Chen, S Song
- # 2 Aprazole, A Linear Analogue of the Potent Anticancer Apratoxins from the Marine Cyanobacterium *Moorea Bouillonii*: Isolation, Structure Elucidation, Bioactivity and Biosynthetic Implications**
Presenter: Fatma Al-Awadhi (Medicinal Chemistry/Graduate Student)
Authors: F Al-Awadhi, R Ratnayake, S Matthew, V Paul, H Luesch
- # 3 A Pharmacokinetic Model Simulating the Absorption, Distribution and Elimination of Gold Nanoparticles Following an Oral Administration**
Presenter: Ahmed Alalaiwe (Pharmaceutics/Graduate Student)
Authors: A Alalaiwe, G Hinkley, S Roberts
- # 4 Epidemiology of Tympanoplasty in Children with Tympanic Tubes**
Presenter: Adel Alrwisan (Pharmaceutical Outcomes and Policy/Graduate Student)
Authors: A Alrwisan, P Antonelli, A Winterstein
- # 5 Levofloxacin Dose Optimization for Multidrug Resistant Tuberculosis Based on Lung Microdialysis in Patients**
Presenter: Aline Bergesch Barth (Pharmaceutics/Graduate Student)
Authors: A Barth, R Singh, J May, J Johnson, E Prieto, R Isaza, R Kempker, C Peloquin, H Derendorf
- # 6 Assessing the Relationship between the Extent of Adsorption of Drug onto Charcoal and their Physicochemical Properties**
Presenter: Sharvari Bhagwat (Pharmaceutics/Graduate Student)
Authors: S Bhagwat, M Jetzer, A Goes, G Hochhaus
- # 7 Effect of Metal Ion on Minimum Inhibitory Concentrations of Tigecycline against *Escherichia Coli***
Presenter: Nadia Bharose (Pharmaceutics/Graduate Student)
Authors: N Bharose, T Schumacher, R Singh, S Sy, J Mukker, H Derendorf
- # 8 Discovery, Synthesis, and Biological Evaluation of Apratryamide, a Transcriptional Modulator of Dipeptidyl Peptidase 4 with Selective Anticancer Activity Isolated from a Marine Cyanobacterium**
Presenter: Weijing Cai (Medicinal Chemistry/Graduate Student)
Authors: W Cai, L Salvador, W Zhang, S Matthew, R Ratnayake, V Paul, L Dang, H Luesch

POSTER COMPETITION (cont.)

- # 9 The Composition of Excitatory Synaptic Current in Cortical Layer 2/3 Pyramidal Neurons in Young and Aged Rodents**
Presenter: Haley Carpenter (Pharmacodynamics/Graduate Student)
Authors: H Carpenter, K Kelly, J Bizon, C Frazier
- # 10 A Pharmacogenomic Genome-Wide Association Study (GWAS) for New Onset Diabetes (NOD) in the International Verapamil Study (INVEST)**
Presenter: Shin-Wen Chang (Pharmacotherapy & Translational Research/Graduate Student)
Authors: S-W Chang, C McDonough, Y Gong, C Pepine, J Johnson, R Cooper-DeHoff
- # 11 Cost-Effectiveness of Fidaxomicin for the Treatment of *Clostridium difficile* Infection**
Presenter: Chao Chen (Pharmaceutical Outcomes and Policy/Graduate Student)
Authors: C Chen, H Park, A Hartzema
- # 12 Identification of Risk Factors Associated with Falls among Hospital Inpatients to Develop Dynamic Risk Models**
Presenter: Yoonyoung Choi (Pharmaceutical Outcomes and Policy/Graduate Student)
Authors: Y Choi, B Staley, T Johns, A Winterstein
- # 13 The Impact of Epilepsy on Employment Status: A Retrospective Cohort Study**
Presenter: Chintan Dave (Pharmaceutical Outcomes and Policy/Graduate Student)
Authors: C Dave, A Hartzema
- # 14 Racial and Ethnic Variations in Lifestyle and Dietary Patterns among Women with History of Gestational Diabetes**
Presenter: Ghadeer Dawwas (Pharmaceutical Outcomes and Policy/Graduate Student)
Authors: G Dawwas, L Bakhireva
- # 15 A Physiologically Based Pharmacokinetic Model of Gefitinib Disposition: from Rat to Man**
Presenter: Jiexin Deng (Pharmaceutics/Graduate Student)
Authors: J Deng, L Lesko, G An
- # 16 Genome Wide Association Analysis of Resistant Hypertension in INVEST**
Presenter: Nihal El Rouby (Pharmacotherapy & Translational Research/Graduate Student)
Authors: N El Rouby, J Johnson, C McDonough
- # 17 In-vitro uses of Microdialysis to Measure Unbound Drug Concentrations**
Presenter: Nivea Maria Simoes Falcao (Pharmaceutics/Graduate Student)
Authors: N Falcao, R Singh, D Gonzalez, S Pieper, H Derendorf
- # 18 Identification and Selective Stimulation of Hypothalamic Corticotropin Releasing Hormone Containing Neurons Expressing Light Sensitive Channelrhodopsin-2**
Presenter: Scott William Harden (Pharmacodynamics/Graduate Student)
Authors: S Harden, E Krause, C Frazier

POSTER COMPETITION (cont.)

- # 19 Building a Predictive Risk Model for QT Prolongation in the Inpatient Setting using Electronic Health Record Data**
Presenter: Juan M. Hincapie Castillo (Pharmaceutical Outcomes and Policy/Graduate Student)
Authors: J Hincapie Castillo, A Winterstein, A Saidi
- # 20 Development and Optimization of an In-vitro Dissolution System for Inhaled Drug Products**
Presenter: Martin Jetzer (Pharmaceutics/Graduate Student)
Authors: S. Bhagwat, M Jetzer, A Krome, A Goes, R Rajan, G Hochhaus
- # 21 Age-related Changes in GABA_B Receptor Mediated Inhibitory Tone in the Medial Prefrontal Cortex**
Presenter: Kyle Kelly (Pharmacodynamics/Graduate Student)
Authors: K Kelly, H Carpenter, J Bizon, C Frazier
- # 22 Inflight Pharmacokinetic and Pharmacodynamic Responses to Medications Commonly used in Spaceflight**
Presenter: Johannes Kast (Pharmaceutics/Graduate Student)
Authors: J Kast, L Barger, Y Bokrand-Donatelli, H Derendorf, S Smith, V Wotring
- # 23 The Effect of Peripheral Salt Loading on Central Circuits that Regulate Stress**
Presenter: Dipanwita Pati (Pharmacodynamics/Graduate Student)
Authors: D Pati, C Frazier, J Smith, A de Kloet, E Krause
- # 24 A National Survey to Prioritize Preventable Adverse Drug Events in the Hospital Setting**
Presenter: Nakyung Jeon (Pharmaceutical Outcomes and Policy/Graduate Student)
Authors: N Jeon, A Winterstein
- # 25 Towards the Total Synthesis of Lyngbyastatin 7 for the Treatment of Pulmonary Diseases**
Presenter: Danmeng Luo (Medicinal Chemistry/Graduate Student)
Authors: D Luo, Q-Y Chen, H Luesch
- # 26 Building a Predictive Risk Model for Drug-induced Kidney Injury in the Inpatient Setting using Electronic Health Record Data**
Presenter: Nakyung Jeon (Pharmaceutical Outcomes and Policy/Graduate Student)
Authors: N Jeon, A Winterstein
- # 27 Fibroblast Growth Factor Peptide (FGF-P): Mitigation Agent for Treatment of Various Radiation Syndromes**
Presenter: Ing-orn Prasanchaimontri (Pharmaceutics/Graduate Student)
Authors: I Prasanchaimontri, R Singh, H Derendorf, P Okunieff

POSTER COMPETITION (cont.)

- # 28 Secretions of Adipose Derived Stem Cells for the Treatment of Monocrotaline Induced Pulmonary Hypertension**
Presenter: Anandharajan Rathinasabapathy (Pharmacodynamics/Graduate Student)
Authors: A Rathinasabapathy, V Shenoy, E Bruce, A Espejo, M Raizada, M Katovich
- # 29 Examining the Association between Risk Taking Behavior and Human Papilloma Virus (HPV) Vaccination Status**
Presenter: Donna R. Rivera (Pharmaceutical Outcomes and Policy/Graduate Student)
Authors: D Rivera, E Eworuke, A Hartzema
- # 30 Whole Transcriptome Analysis to Identify Differentially Expressed Genes Associated with Blood Pressure Responses to Hydrochlorothiazide Monotherapy**
Presenter: Ana Caroline Costa Sá (Pharmacotherapy & Translational Research/Graduate Student)
Authors: A Sá, A Webb, Y Gong, T Langae, R Cooper-DeHoff, W Sadee, J Johnson
- # 31 Personalizing Antiplatelet Therapy: Development of a Physiology-based and Genotype-directed Dosing Algorithm for Clopidogrel**
Presenter: Snehal Samant (Pharmaceutics/Graduate Student)
Authors: S Samant, X-L Jiang, R Horenstein, A Shuldiner, L Yerges-Armstrong, M Trame, L Lesko, S Schmidt
- # 32 A Simulation Model to Predict the Pharmacokinetics of Intranasally Administered Fluticasone Propionate**
Presenter: Uta Schilling (Pharmaceutics/Graduate Student)
Authors: U Schilling, G Hochhaus, B Kandala
- # 33 Exploring the Synergy of TKIs Combination Therapy – A Pilot Study of P-gp-mediated Interaction between Dasatinib and Imatinib in LLC pk1 Cells**
Presenter: Jie Shao (Pharmaceutics/Graduate Student)
Authors: J Shao, J Deng, D Bei, G An
- # 34 Exploring Factors that Impact the Activity of a Polycyclic Aromatic Hydrocarbon Exposure Biomarker, EROD, in Livers of Finfish from the Gulf of Mexico**
Presenter: Marci Smeltz (Medicinal Chemistry/Graduate Student)
Authors: M Smeltz, L Glicksman, G Zhong, L Rowland-Faux, M James, A Kane, W Patterson
- # 35 Systematic Review and Meta-Analysis of Gender Impact on Rheumatoid Arthritis Treatment Response**
Presenter: Xuyang Song (Pharmaceutics/Graduate Student)
Authors: X Song, L Fang, P Ji, Y-M Wang, Y Wang, C Sahajwalla, J Lee, J Maynard, S Yim, H Derendorf, D Bashaw

POSTER COMPETITION (cont.)

- # 36 Establishment of an In Vitro Model for Studying Neuron-Microglia Interplay in Ischemic Injury: Potential Role of Ischemia Responsive Protein (Irp94)**
Presenter: Rajiv Tikamdas (Pharmacodynamics/Graduate Student)
Authors: R Tikamdas, S Song, B Liu
- # 37 Ceftriaxone Medocartil (BAL-5788) for the Treatment of Complicated Skin and Skin Structure Infections**
Presenter: Amelia Tucker (Pharmaceutics/Graduate Student)
Authors: A Tucker, A Barbour, H Derendorf
- # 38 Evaluation of Clinical Outcomes and Vancomycin AUC/MIC Ratio in Patients with MRSA Bacteremia**
Presenter: Alexander Voelkner (Pharmaceutics/Graduate Student)
Authors: A Voelkner, B McCullough, K Klinker, H Derendorf
- # 39 Angiotensin Converting Enzyme 2 Acts in the Brain to Decrease Anxiety-like Behavior and Stress-induced Activation of the Hypothalamic-Pituitary-Adrenal Axis**
Presenter: Lei Wang (Pharmacodynamics/Graduate Student)
Authors: L Wang, A de Kloet, H Hiller, J Smith, D Pioquinto, D Nguyen, S Oh, M Katovich, M Raizada, E Krause
- # 40 Chloride and Other Anions Inhibit Dichloroacetate-induced Anactivation of Human Liver GSTZ1 in a Haplotype-dependent Manner**
Presenter: Guo Zhong (Medicinal Chemistry/Graduate Student)
Authors: G Zhong, W Yi, Y Gu, T Langaee, P Stacpoole, M James
- # 41 Validation of Algorithms to Establish the Beginning of Pregnancy in Medicaid Database**
Presenter: Yanmin Zhu (Pharmaceutical Outcomes and Policy/Graduate Student)
Authors: A Winterstein, C Knox, Y Zhu
- # 42 Novel Biocatalyst Development: The Creation of Self-sufficient P450 Monooxygenases for Aromatic Nitration Reactions**
Presenter: Ran Zuo (Medicinal Chemistry/Graduate Student)
Authors: R Zuo, Y Ding
- # 43 ESBL Bacteremia: Defining a Role for Cefepime**
Presenter: Joseph M. Abbatematteo (Gainesville Campus/Professional Student)
Authors: J Abbatematteo, K Hernando, J Pardo, S Borgert, K Klinker
- # 44 Compliance with IDSA CAP Guidelines for Empiric Therapy and Streamlining Based on Cultures and Sensitivity**
Presenter: Britney Bisio (St. Pete Campus/Professional Student)
Authors: B Bisio, R Wilson, C Field

POSTER COMPETITION (cont.)

- # 45 Development of a Method to Analyze Fluconazole and Baicalin Simultaneously**
Presenter: Lukas Diederich (Gainesville Campus/Professional Student)
Authors: L Diederich, A Matsushima, A Diniz, H Derendorf
- # 46 The Effects of Statin Therapy on PPAR γ Protein Expression**
Presenter: Brian Gawronski (Gainesville Campus/Professional Student)
Authors: B Gawronski, B Zhang, R Wang, R Cooper-DeHoff
- # 47 Effects of Coenzyme Q10 Supplementation on Statin-Induced Glucose Dysregulation in 3T3-L1 Adipocytes**
Presenter: Erika Giblin (Gainesville Campus/Professional Student)
Authors: E Giblin, B Zhang, R Cooper-DeHoff
- # 48 P4P: Performance Reports that Alter Patient and Provider Behavior**
Presenter: Lauren Hundley (Gainesville Campus/Professional Student)
Authors: L Hundley, E Lipowski
- # 49 Development of a Prediction Model of Drug Induced Hypoglycemia in Inpatient Setting**
Presenter: Aaron Joseph (St. Pete Campus/Professional Student)
Authors: A Joseph, A Winterstein
- # 50 Predictors of Adherence to Non-Warfarin Oral Anticoagulants in Non-Valvular Atrial Fibrillation**
Presenter: Maryam M. Khazraee (Gainesville Campus/Professional Student)
Authors: M Khazraee, P Gleason, C Starner, Y Qiu
- # 51 Analysis of a Pharmacodynamic Crossover Study Conducted to Establish Bioequivalence of Formoterol Aerolizer and Formoterol Novolizer**
Presenter: Brian Maas & Roy Joseph (Gainesville Campus/Professional Students)
Authors: B Maas, R Joseph, B Kandala, L Hendeles, S Yong, G Hochhaus
- # 52 Outcomes Associated with *Clostridium difficile* in Neutropenic Oncology Patients**
Presenter: Emily McCleary (Gainesville Campus/Professional Student)
Authors: E McCleary, K Klinker, G Trikha
- # 53 Review of Continuing Education and Published Literature Related to Women's Health and Pharmacy**
Presenter: Cynthia Moreau (Gainesville Campus/Professional Student)
Authors: C Moreau, D Wilson

POSTER COMPETITION (cont.)

- # 54 Mas Antagonist Blocks the Beneficial Effects of AT2 Receptor Agonist in a Model of Pulmonary Hypertension**
Presenter: Allison Oswalt (Gainesville Campus/Professional Student)
Authors: A Oswalt, E Bruce, V Shenoy, M Raizada, U Steckelings, C Sumners, M Katovich
- # 55 A Systematic Review of Preventable Adverse Drug Events in Pediatric Inpatients**
Presenter: Crystal D. Rose (Gainesville Campus/Professional Student)
Authors: C Rose, A Winterstein
- # 56 Maternal Hypercortisolemia and Hyperglycemia Increases Lipid Peroxidation in Fetal Pericardial Fat**
Presenter: Katelyn Zeringue (Gainesville Campus/Professional Student)
Authors: K Zeringue, E Richards, M Keller-Wood
- # 57 Investigating the Effect of Plasma Protein Binding on the Pulmonary Pharmacodynamics after Inhalation of Budesonide and Ciclesonide**
Presenter: Mongjen Chen (Pharmaceutics/Post-doctoral Fellow)
Authors: S Bhagwat, A Krome, M Chen, M Jetzer, G Hochhaus
- # 58 Does Pharmacist-Physician Collaboration in Medication Therapy Management (MTM) Improve Care?**
Presenter: Patrick Cogan (Pharmacotherapy & Translational Research/ Post-doctoral Fellow)
Authors: K Vogel Anderson, P Cogan, D Pierini, E Rosenberg
- # 59 Novel Cyclic Peptoids to Target HIV RNA for AIDS Therapy**
Presenter: Junjie Fu (Medicinal Chemistry/ Post-doctoral Fellow)
Authors: J Fu, Y Zhang, V Wong, X Qi
- # 60 Mechanism-based Evaluation of Codeine Toxicity in Children**
Presenter: Puneet Gaitonde (Pharmaceutics/ Post-doctoral Fellow)
Authors: P Gaitonde, M Trame, S Syvanen, L Lesko, S Schmidt
- # 61 The Roles of Chloride and GSTZ1 in the Metabolism of Dichloroacetate**
Presenter: Stephan Jahn (Medicinal Chemistry/ Post-doctoral Fellow)
Authors: S Jahn, G Zhong, M Smetlz, L Rowland-Faux, P Stacpoole, M James
- # 62 Metal Ion Chelation by Tigecycline Explains Atypical Nonlinear Plasma Protein Binding Behavior**
Presenter: Jatinder Kaur Mukker (Pharmaceutics/ Post-doctoral Fellow)
Authors: J Mukker, R Singh, H Derendorf

POSTER COMPETITION (cont.)

- # 63 Angiotensin-(1-7) Improves Engraftment and Enhance Reparative Potential of Cardiac Progenitor Cells in a Rat Model of Myocardial Infarction**
Presenter: Yanfei Qi (Pharmacodynamics/ Post-doctoral Fellow)
Authors: Y Qi, E Bruce, V Shenoy, R Vohra, C Cole-Jeffrey, J Abbatematteo, M Zingler, G Walter, C Pepine, M Katovich, M Raizada
- # 64 A Systematic Review of Preventable Adverse Drug Events in Inpatients**
Presenter: Ariadna Auladell Rispau (Pharmaceutical Outcomes and Policy/ Post-doctoral Fellow)
Authors: A Rispau, A Winterstein
- # 65 Monte Carlo Simulation to Determine the Effect of Atypical Nonlinear Plasma Protein Binding on Clinical Breakpoint of Tigecycline**
Presenter: Ravi Shankar Prasad Singh (Pharmaceutics/ Post-doctoral Fellow)
Authors: R Singh, J Mukker, H Derendorf
- # 66 A Novel Simple Method for Determining CYP2D6 Copy Number and Identify Alleles with Duplication/Multiplication**
Presenter: Issam Hamadeh (Pharmacotherapy & Translational Research/ Post-doctoral Fellow)
Authors: I Hamadeh, T Langae, R Dwivedi, S Garcia, B Burkely, A Chapman, J Gums, S Turner, Y Gong, R Cooper-DeHoff, J Johnson
- # 67 Impact of CYP2D6 Polymorphisms on the Clinical Efficacy and Tolerability of Metoprolol Tartrate**
Presenter: Issam Hamadeh (Pharmacotherapy & Translational Research/ Post-doctoral Fellow)
Authors: I Hamadeh, T Langae, R Dwivedi, S Garcia, B Burkely, A Chapman, J Gums, S Turner, Y Gong, R Cooper-DeHoff, J Johnson

JUDGES

POSTER COMPETITION

Larisa H. Cavallari, PharmD

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Yanxia Liu, PhD

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University of Florida

Eric A. Dietrich, PharmD

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Development and Resource Utilization
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College of Liberal Arts and Sciences
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ORAL COMPETITION

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