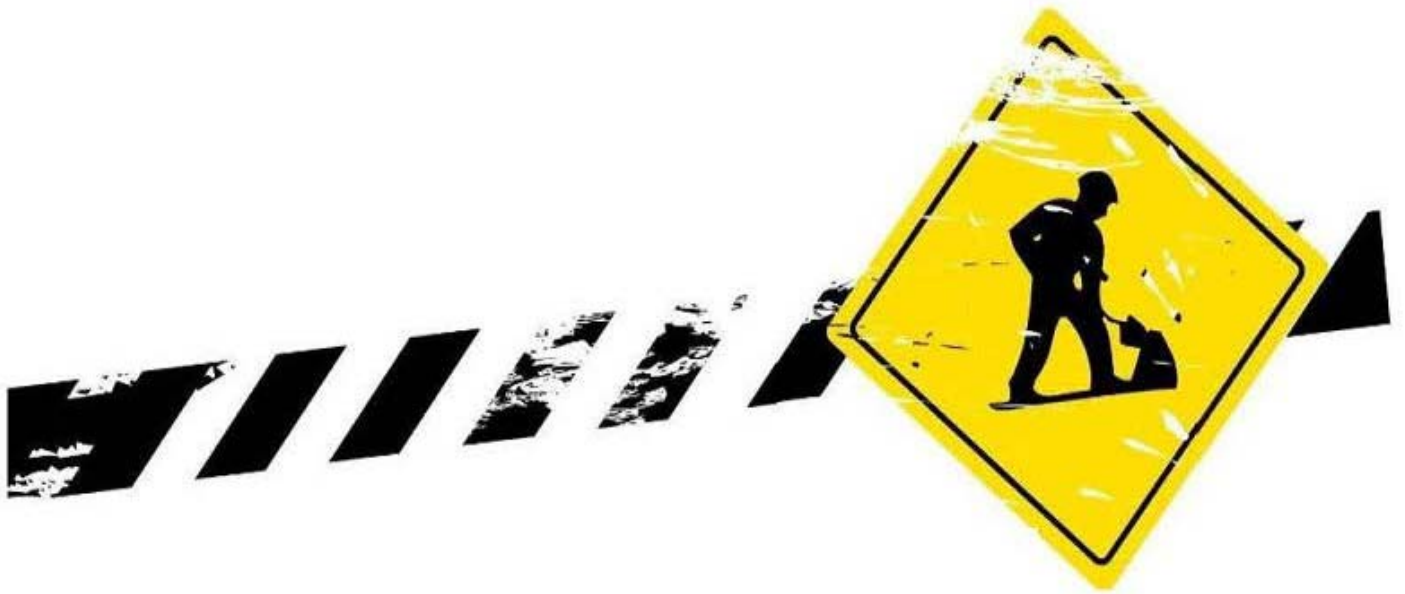


UMKC
School of Pharmacy
2013 Annual Report



UNDER CONSTRUCTION

Dear Colleagues,

Under Construction! That theme describes a lot of hard work by the faculty, staff and students of the University of Missouri-Kansas City School of Pharmacy in 2013. Significant progress was made toward the expansion of our professional pharmacy program to Springfield. Preparations for expansion required a detailed accreditation report and extensive upgrades to our classroom space and technology in Kansas City, Columbia and Springfield. Completion of the brand-new 15,000 square feet of state-of-the-art distance education space in Springfield was a very tangible sign of our program growth and ongoing commitment to serving the citizens of Missouri throughout the state. We are thankful for state financial support and assistance from our partners at Missouri State University, UMKC, and the University of Missouri System.

I am pleased to present to you the 2013 Strategic Plan Report of the UMKC School of Pharmacy. As you review the annual report for the school, I think you will find that our students, staff and faculty had a tremendously successful year! Through significant hard work and dedication, our great school continued to shine and bring prestige and international visibility to UMKC and the University of Missouri System.

We experienced many great milestones in 2013, far too many to cover in a single letter. As I look back on 2013, I am particularly impressed with how our faculty and staff led our pharmacy and graduate students to significant successes. In continuing a long tradition, our pharmacy student organizations were recognized among the top chapters in the country! Our new doctor of pharmacy graduates were well prepared to pass the NAPLEX and MPJE licensure exams and find meaningful and gainful employment. Many of the 2013 pharmacy graduates were interested in residency programs, and those who entered the match demonstrated a much higher placement rate than the national average. Our doctor of philosophy students also continued to shine and bring prestige to UMKC by publishing cutting-edge research articles in highly regarded international scientific journals. All doctor of philosophy graduates in 2013 found outstanding jobs in academia, the pharmaceutical industry, and regulatory organizations.

Our current strategic plan runs from 2009-2014, and it defines our direction and guides resource prioritization. The current strategic plan was developed and approved by school faculty and staff in 2009. It was revised in 2011 to eliminate goals related to programs or activities that were no longer being implemented and to make the goals more measurable. In 2013, the school began an in-depth revision process to produce the all-new 2015-2020 plan, which will be published in December of 2014.

Please take time to review all of the outstanding accomplishments of our students, staff and faculty in this annual report.

Sincerely,

Russell B. Melchert, Ph.D., R.Ph.
Dean and Professor

UMKC and SOP Mission, Vision and Core Values

The University of Missouri-Kansas City (UMKC) is composed of 12 academic units, and the School of Pharmacy (SOP) is one of four health science units. The SOP contributes significantly to the university's mission to lead in the life and health sciences, to develop a professional work force and to collaborate on urban issues. In 2013, the school faculty and staff kicked off the development of the 2015-2020 strategic plan by affirming our core values and revising the mission and vision statements.

The school's core values represent the cultural and personal principles that guide school-related decision making and individual conduct. Members of the school are committed to the following core values when acting on behalf of the school:

Leadership: We lead with courage and vision while considering the needs of our people.

Professionalism: We act with integrity, honesty, reliability, ethics, moral courage, humility, respect, and accountability.

Service Orientation: We serve others in an altruistic and cooperative manner.

Community: We care about others by being a learning organization that enriches and values our human wealth and promotes civility, diversity, and mutual respect.

Collaboration: We engage in creative partnerships locally and globally to advance health education, research, and practice.

Innovation: We seek and develop resources, infrastructure, and knowledge to promote discovery.

Excellence: We strive for excellence in all we do.

The mission statement was *"To educate students, health care professionals and scientists, conduct research, and serve the public and the pharmacy profession in order to meet pharmaceutical needs and advance the standard of health care."* Aligned with UMKC, the spirit of our mission remains in our new streamlined statement.

UMKC Mission Statement

UMKC's mission is to lead in life and health sciences; to deepen and expand strength in the visual and performing arts; to develop a professional work force and collaborate in urban issues and education; and to create a vibrant learning and campus life experience.

SOP MISSION

To educate, innovate, discover, engage, and serve to improve health

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Strategic Initiative I

Curriculum: Deliver state-of-the-art curricula that prepare graduates who meet the needs of society

The current strategic plan was implemented in 2009. At the time, the School of Pharmacy offered three degree programs: a bachelor of science in pharmaceutical sciences (BS/PS), the doctor of pharmacy (Pharm.D.), and the interdisciplinary doctor of philosophy (IPhD). In 2010, the faculty voted to close admissions to the BS/PS degree program due to low enrollment and work force demand. As of December 2013, one student remains in the program and has been advised that he must complete the program prior to May 2016.

A major curricular change was implemented in the Pharm.D. program. The faculty voted in December 2009 to change from a 1-5 to a 2-4 curriculum. Our program was the only 1-5 Pharm.D. program; the vast majority of programs are 2-4 in length. This change resulted in suspension of new admissions for the 2011-2012 academic year with an initial 2-4 class enrolled in fall 2012. Another major change to the Pharm.D. program is the planned expansion to a third site. Thirty students are expected to begin classes at the UMKC SOP at Missouri State University (MSU) site in Springfield in fall 2014. The expansion is supported by funding from the state legislature and is expected to meet regional needs.

Graduate students enrolled in the IPhD program develop individual plans of study. The opportunity to collaborate with faculty and peers on funded research projects is a key component of exemplary graduate education. Our graduate students continue to receive outstanding research training as part of their graduate curriculum.

Goal I.A. Pharm.D.: Graduate generalist pharmacists who are capable of practicing in a range of contemporary settings

Objective I.A.1. Align curricular outcomes with the latest ACPE standards, other relevant documents and feedback from key constituent groups

Objective I.A.2. Develop and implement learning experiences that optimize student achievement of curricular outcomes

Objective I.A.3. Initiate interprofessional experiences with other schools/academic units that capitalize on shared curricular outcomes

Objective I.A.4. Align practice faculty placements to meet curricular needs

Objective I.A.5. Sustain a number of students participating in post-graduate training and degree opportunities consistent with national norms

Measures of Success:

- Ongoing ACPE accreditation
- Number of interprofessional experiences available and number of students who participate
- Number of international rotations developed and number of students who participate
- On-time graduation rate
- NAPLEX pass rate first attempt percentage
- MJPE pass rates

- Percentage of students employed or enrolled in post-graduate training (School of Pharmacy exit interview)
- Students pursuing post-graduate training
 - Number of students placed in residencies as reported in the ASHP report for the resident matching program and post-match scramble
 - AACP graduating student survey data

Accreditation Activities

The doctor of pharmacy program is fully accredited by the Accreditation Council for Pharmacy Education (ACPE). Our last comprehensive self-study was conducted in 2009-2010. Interim reports have been completed each year. The next comprehensive self-study is scheduled for the fall of 2015. A summary of accreditation reporting and activity between 2009-2014 follows:

- ACPE:
 - October 2010: Interim report for standard 14
 - May 2011: The interim report includes brief descriptions for standards 13, 15, 24, 25, and 30. Standards 13, 25, and 30 required one brief description each; standards 15 and 24 required two brief descriptions each.
 - November 2011: Voluntary report on retention
 - October 2012: Monitoring of student retention for class of 2011 (brief report)
 - November 2012: An overview of the school's expansion plans
 - October 2013: Monitoring of student retention for class of 2012 (brief report)
 - November 2013: Focused self-study for the program's planned expansion to Springfield
 - April 2014: Interim report for standard 30
 - April 30–May 1, 2014: ACPE site visit for the focused self-study (program expansion)
- ASHP:
 - September 2012: American Society of Health-System Pharmacists Commission on Credentialing granted three-year reaccreditation of the postgraduate one-year community pharmacy residency program
- University:
 - June 2012: Missouri Department of Higher Education's Coordinating Board for Higher Education stated its approval for the expansion to the Missouri State University campus.
 - May 2013: UMKC multi-location report and site visit for the Higher Learning Commission, 230 South LaSalle Street, Suite 7-500, Chicago, IL 60604.



Interprofessional Experiences

One of our Columbia-based faculty members is serving as the pharmacist on a team of interprofessional educators at the University of Missouri. Funding has been provided by the Macy Foundation to create an interprofessional faculty development training program. As a result of this collaboration, the first IPE activity for Pharm.D. students was introduced into Pharmacotherapy III in spring 2013. Pharmacy and nursing students completed a station together during the course OSCE at the MU simulation center. In addition, a group of faculty and administrators from the UMKC health sciences schools has been

meeting on a regular basis to identify and develop IPE. The first large-scale curricular IPE activity was held on February 21, 2014, with over 500 students participating from all four schools on the health science campus (Pharmacy, Nursing and Health Sciences, Dentistry, and Medicine).

International Rotations

- Three students completed a month-long rotation in Nicaragua in April 2012.
- A rotation in Honduras was planned for July; however, it was cancelled when the U.S. Department of State issued a travel warning about the security situation in Honduras.

Graduation and Attrition Statistics for the Pharm.D. Program

Overall attrition rates are well within the standards set by ACPE. However, attrition due to academic dismissal for the classes of 2011, 2012, and 2013 have exceeded the 5% limit set forth in the ACPE policies and procedures (see Attrition and Retention table on page 23). The program is working to reduce attrition through more stringent and thorough admissions procedures and closer monitoring of student progression through the program. A student success program was implemented in the fall of 2011 to detect academic struggle throughout the semester and to intervene as needed. In addition, the curriculum changed from a 1-5 to a 2-4 program with the entering class of 2012 (graduating class of 2016). Over a third of our attrition occurred during the first year of the 1-5 program; therefore, we believe the change to the 2-4 may eliminate a significant portion of our attrition. Regular seminars and individual meetings with instructors are also being held to provide instructional and assessment improvement strategies.

North American Pharmacist Licensure Examination (NAPLEX) Pass Rates for 2012 and 2013 with Comparator School Rates

School Name	2012 Graduates				2013 Graduates			
	All attempts	Pass rate	First-time attempts	Pass rate	All attempts	Pass rate	First-time attempts	Pass rate
University of Missouri-Kansas City	113	93.81%	107	93.46%	128	95.31%	123	95.93%
Creighton University	151	100%	151	100%	180	96.67%	178	97.19%
Drake University	107	99.07%	106	99.06%	124	97.58%	122	98.36%
Southern Illinois University-Edwardsville	73	98.63%	73	98.63%	81	95.06%	78	94.87%
Southwestern Oklahoma State University	55	100%	55	100%	41	100%	41	100%
St. Louis College of Pharmacy	181	98.34%	179	98.88%	174	97.70%	170	97.65%
University of Arkansas	106	97.17%	104	98.08%	115	100%	115	100%
University of Illinois at Chicago	165	92.12%	156	92.31%	170	95.29%	165	95.15%
University of Iowa	115	96.52%	112	97.32%	115	93.91%	109	93.58%
University of Kansas	101	99.01%	100	99.00%	104	98.08%	103	98.06%
University of Nebraska	65	100%	65	100%	65	100%	65	100%
University of Oklahoma	117	100%	117	100%	108	95.37%	105	95.24%

Multi-State Pharmacy Jurisprudence Exam (MPJE) Pass Rates for 2012 with Comparator School Rates

School name	2012 Graduates				2013 Graduates			
	All attempts	Pass Rate	First-time attempts	Pass rate	All attempts	Pass Rate	First-time attempts	Pass rate
University of Missouri-Kansas City	87	98.85%	87	98.85%	110	95.45%	106	96.23%
Creighton University	40	100%	40	100%	40	95.00%	38	94.74%
Drake University	48	93.75%	45	93.33%	55	96.36%	54	96.30%
Southern Illinois University-Edwardsville	57	94.74%	54	96.30%	61	96.72%	60	96.67%
Southwestern Oklahoma State University	51	94.12%	48	93.75%	39	97.44%	38	97.37%
St. Louis College of Pharmacy	140	91.43%	129	91.47%	139	94.96%	133	94.74%
University of Illinois at Chicago	144	97.92%	142	97.89%	152	94.08%	146	93.84%
University of Iowa	67	92.54%	63	93.65%	76	96.05%	73	97.26%
University of Kansas	95	98.95%	94	98.94%	92	100%	92	100%
University of Nebraska	60	100%	60	100%	49	100%	49	100%
University of Oklahoma	93	93.55%	87	93.10%	75	100%	75	100%

Note: UAMS graduates do not take the MPJE exam and are therefore not included in this table

The 2012 and 2013 pass rates for our program were high for both the NAPLEX and MPJE (>90%). Our pass rates were similar to our neighboring and urban peers for the NAPLEX and to those who require the MPJE for licensure.

Pharm.D. Post-Graduate Employment and Training

CAREER CHOICES*	2009	2010	2011	2012	2013
Pharm.D. Total N =	71	111	111	107	123
Residency/Fellowship	20%	18%	30%	26%	23%
Community Chain	38%	47%	35%	40%	49%
Community Independent	14%	9%	6%	6%	9%
Hospital	4%	7%	8%	7%	6%
Industry (Sales/Clin Res)	0%	0%	0%	0%	0%
Grad School	3%	0%	3%	0%	0%
Other^	1%	3%	9%	4%	1%
Unknown	1%	2%	5%	0%	0%
Undecided	18%	17%	4%	17%	12%

*Survey taken at time of graduation

^Govt, Military, Nucl., Benefits, Mail Order

Eighty-eight percent of the doctor of pharmacy class of 2013 were employed or had plans to enroll in post-graduate training at the time of graduation from the program.

UMKC Pharm.D. Placement in Residency Programs

A record 1,616 residency programs (1,079 PGY1 and 537 PGY2) were available in 2013 in the ASHP Resident Matching Program. More candidates applied than in the previous year: 6% more PGY1 and 10% more PGY2 applicants. The national match rate for PGY1 was 63%, and the UMKC match rate was 74%. Thirty-eight UMKC students applied for a PGY1 residency, and 28 received positions. Five UMKC students received PGY2 residencies. Tables showing March 2013 counts for schools in the ASHP Resident Matching Program are displayed below. In addition, two students were awarded residencies in non-accredited programs.

2013 Applicants for PGY1 programs, compared with neighboring publicly funded schools:

	REGISTERED	ACTV W/LIST	MATCHED	UNMATCHED
UNIVERSITY OF ARKANSAS	13	8	6	2
UNIVERSITY OF IOWA	57	45	31	14
UNIVERSITY OF KANSAS	35	33	25	8
UNIV OF MISSOURI - KANSAS CITY	45	38	28	10
UNIV OF NEBRASKA MEDICAL CENTER	20	17	16	1
SW OKLAHOMA STATE UNIVERSITY	7	4	3	1
UNIV OF OKLAHOMA HEALTH SCI CTR	22	19	13	6

2013 Applicants for PGY1 programs, compared with Urban 21 publicly funded schools:

	REGISTERED	ACTV W/LIST	MATCHED	UNMATCHED
FLORIDA AGRIC. & MECHAN. UNIV	63	37	13	24
UNIVERSITY OF ILLINOIS	76	64	41	23
WAYNE STATE UNIVERSITY	27	21	19	2
UNIV OF MISSOURI - KANSAS CITY	45	38	28	10
UNIVERSITY OF CINCINNATI	36	26	19	7
UNIVERSITY OF TOLEDO	29	19	13	6
TEMPLE UNIVERSITY	37	29	19	10
UNIVERSITY OF PITTSBURGH	40	34	23	11
UNIVERSITY OF HOUSTON	37	33	20	13
VIRGINIA COMMONWEALTH UNIV	54	45	30	15

2013 Applicants for PGY2 programs, compared with neighboring publicly funded schools:

	REGISTERED	ECP	ACTV W/LIST	MATCHED	UNMATCHED
UNIVERSITY OF ARKANSAS	1	0	1	0	1
UNIVERSITY OF IOWA	16	4	7	5	2
UNIVERSITY OF KANSAS	3	0	2	2	0
UNIV OF MISSOURI - KANSAS CITY	7	2	5	5	0
UNIV OF NEBRASKA MEDICAL CENTER	3	1	2	2	0
SW OKLAHOMA STATE UNIVERSITY	1	0	1	0	1
UNIV OF OKLAHOMA HEALTH SCI CTR	10	3	6	3	3

2013 Applicants for PGY2 programs, compared with Urban 21 publicly funded schools:

	REGISTERED	ECP	ACTV W/LIST	MATCHED	UNMATCHED
FLORIDA AGRIC. & MECHAN. UNIV	3	1	2	2	0
UNIVERSITY OF ILLINOIS	22	6	14	6	8
WAYNE STATE UNIVERSITY	15	3	8	6	2
UNIV OF MISSOURI - KANSAS CITY	7	2	5	5	0
UNIVERSITY OF CINCINNATI	8	1	6	4	2
UNIVERSITY OF TOLEDO	7	2	4	3	1
TEMPLE UNIVERSITY	10	2	5	3	2
UNIVERSITY OF PITTSBURGH	14	3	5	3	2
UNIVERSITY OF HOUSTON	7	4	2	1	1
VIRGINIA COMMONWEALTH UNIV	12	2	9	7	2

Pharm.D. Graduates Pursuing Other Degrees and Post-Graduate Training

Data from 2013 AACP graduating student survey:

- Participated in a dual degree program while completing doctor of pharmacy program
 - 2 – Pharm.D./MBA
 - 1 – Pharm.D./Ph.D.
 - 1 – Pharm.D./MPH
 - 3 – Other
- “Current plans upon your graduation from the college/school of pharmacy”: Further Education
 - 28 – Pharmacy residency program
 - 5 – MBA program
 - 1 – JD or other law program
 - 2 – Other non-pharmacy master’s program
 - 2 – Non-pharmacy Ph.D. program
 - 1 – Fellowship
 - 88 – No plans for further education

Goal I.B. Graduate Program: Educate scientists that contribute to innovation and application of pharmaceutical/biomedical science

Objective I.B.1. Provide learning experiences and programs of study that reflect contemporary course work and high quality scientific training and support the career aspirations of students

Objective I.B.2. Promote interdisciplinary interactions between basic science and clinical educators to enhance translational research

Measures of Success:

- Number of full-time students in Ph.D. program
- Number of fellowships awarded
- Student awards and honors from external entities
- Peer-reviewed publications by graduate students
- Presentations at national/international scientific meetings by graduate students

- Percentage placement within six months of graduation
 - Academic positions
 - Pharmaceutical industry careers
 - Government
 - Post-doctoral fellowships

Graduate Program Enrollment Policies and School of Pharmacy Graduate Student Statistics

Graduate students enrolled in nine or more credits during a regular semester or five credits during a summer session are considered full-time students. All students registered for fewer than those specified totals are classified as part-time students, unless they hold a teaching or research appointment at UMKC.

Full-time enrollment for students holding graduate teaching assistant or graduate research assistant (GTA/GRA) appointments is six hours in a regular semester or three hours in a summer session. GTAs/GRAs are expected to make normal progress toward their degrees and should enroll in a minimum of six hours per semester (three credits in the summer session). However, GTA/GRA appointees who have completed all required coursework for the degree and who are working full time on research need only enroll for the minimum of three credits. (UMKC catalog: <http://cat-edit.umkc.edu/~Catalog/ViewCatalog.aspx?htmlink=true&pageid=viewcatalog&catalogid=98&topicid=111590&topicgroupid=55714>). Students who are enrolled and do not meet the criteria for full-time enrollment are considered to be part-time graduate students.

Continuous enrollment is required. "Graduate students in good standing who have not enrolled for only one semester may re-enroll without applying for readmission. Students who attend other schools in the interim must submit transcripts of such work from each institution attended. Graduate students are considered inactive after a lapse of two or more regular semesters of enrollment. Subsequently, inactive graduate students who want to continue must follow the same admission procedures as those required for new applicants. After a lapse of three or more terms, graduate students will re-enter under requirements in effect at the time of readmission." (SGS catalog information: <http://catalog.umkc.edu/~Catalog/ViewCatalog.aspx?htmlink=true&pageid=viewcatalog&catalogid=99&topicgroupid=57084>).

- Graduate student enrollment:
 - Spring 2013 – 47 full-time students, 12 part-time
 - Fall 2013 – 41 full-time students, 15 part-time
- Postdoctoral appointments:
 - 2 postdoctoral associates in the Division of Pharmaceutical Sciences

Graduate Student Awards

- 2013 University of Missouri-Kansas City Outstanding Dissertation Award. This year's competition was highly competitive with more than the usual nominations forwarded. Ankit Shah (Pharmacology/ Cell Biology & Biophysics) received the award for his dissertation entitled "HIV-1 gp120 and Methamphetamine-Mediated Induction of Pro-inflammatory Cytokines/Chemokines and Oxidative Stress in Astrocytes: Implications in Neuroinflammation." *Advisor: Anil Kumar.*
- At the 2013 UMKC Health Sciences Student Research Summit, three pharmacy graduate students received best poster awards: Piyush Jain, Mitan Gokulgandhi, and Zhiying Wang.

- The UMKC Women's Council presents their annual Graduate Assistance Fund Awards at a luncheon in the spring. Ph.D. and doctor of pharmacy students are among the women recognized for their research projects. In spring 2013, ten graduate students and one professional student received awards:
 - Asmaa Alsousi – Pharmacology and Toxicology
 - Anusha Ande – Pharmacology and Toxicology
 - Megha Barot – Pharmaceutical Sciences
 - Lu Cao – Pharmacology and Toxicology
 - Anwesha Chatterjee – Pharmacology and Toxicology
 - Samantha Gerke – Pharmacy Practice
 - Namita Giri – Pharmaceutical Sciences
 - Xun Liu – Pharmacology and Toxicology
 - Rubi Mahato – Pharmaceutical Sciences
 - Ramya Krishna Vadlapatla – Pharmaceutical Sciences
 - Divya Teja Vavilala – Pharmaceutical Sciences
- Division of Pharmacology and Toxicology Graduate Student Awards:
 - Lu Cao: Graduate Assistantship Funding from UMKC Women's Council, Certificate of Excellence from Society of NeuroImmune Pharmacology
 - Anantha Nookala: DPT Best Student of the Year, UMKC SGS Travel Award, UMKC Interdisciplinary Doctoral Student Council Travel Award
 - Stephani Stancil: Children's Mercy Chairman's Research Award, Children's Mercy Young Investigator Award
 - Mohit Gangwani: DPT Dean's Scholarship, SNIP Early Career Investigator Travel Award, UMKC Interdisciplinary Doctoral Student Council partial travel award
 - Yan Zhang: Judith Hemberger Graduate Scholarship
 - Asmaa Alsousi: UMKC Graduate Assistance Fund award
 - Xun Liu: UMKC Women's Council Graduate Assistance Fund, SNIP Early Career Investigator travel Award
 - Amruta Ronghe: Robert C. Lanman Graduate Pharmacology Scholarship, UMKC Interdisciplinary Doctoral Student Council Travel Award, DPT Travel Award, Dean's Travel Award, UMKC Women's Council Graduate Assistance Fund Award
 - Anwesha Chatterjee: UMKC Women's Council Graduate Assistance Fund award, DPT Travel Award, Dean's Travel Award, UMKC Interdisciplinary Doctoral Student Council partial travel award, Richard and Paula Johnson Pharmacy Graduate Student Scholarship
 - Ankit Shah: UMKC SGS Travel Grant, UMKC Interdisciplinary Doctoral Student Council Travel Grant, SNIP Early Career Investigator Travel Award, UMKC Chancellor's Doctoral Fellowship
 - Anusha Ande: UMKC Preparing Future Faculty Award, UMKC Graduate Assistance Fund Award, SNIP Early Career Investigator Travel Award, UMKC SGS Travel Award, UMKC Interdisciplinary Doctoral Student Council Travel Award
- Division of Pharmaceutical Sciences Graduate Student Awards:
 - Vibhuti Agrahari: UMKC School of Graduate Studies Travel Grant, Interdisciplinary Doctoral Student Council (IDSC), UMKC Travel Award
 - Vivek Agrahari: UMKC AAPS Student Chapter Best Seminar Speaker Award, UMKC School of Graduate Studies Travel Grant, Interdisciplinary Doctoral Student Council, UMKC Travel Award
 - Megha Barot: UMKC Women's Council Graduate Assistance Fund Award
 - Fohona Soumahila Coulibaly: UMKC School of Graduate Studies Travel Grant, SGS Graduate Student Professional Development Program Award
 - Kishore Cholkar: UMKC School of Graduate Studies Travel Grant

- Mitan Gokulgandhi: 2013 AAPS Lipid-based Drug Delivery Graduate Student Award Recipient, sponsored by Gattefosse, UMKC Health Sciences Student Research Summit Award
- Namita Giri: UMKC AAPS Student Chapter Best Seminar Speaker Award
- Varun Khurana: UMKC School of Graduate Studies Travel Grant
- Jianing Meng: UMKC School of Graduate Studies Travel Grant
- Albert N. N Go: UMKC School of Graduate Studies Travel Grant
- Byeongtaek Oh: UMKC School of Graduate Studies Travel Grant
- Ashaben Patel: UMKC School of Graduate Studies Travel Grant
- Sulabh P. Patel: UMKC School of Graduate Studies Travel Grant
- Mitesh Patel: UMKC School of Graduate Studies Travel Grant
- Animikh Ray: UMKC School of Graduate Studies Travel Grant
- Sujay Shah: UMKC School of Graduate Studies Travel Grant
- Ravi Shukla: UMKC School of Graduate Studies Travel Grant
- Hoang My Trinh: UMKC School of Graduate Studies Travel Grant
- Ramya Krishna Vadlapatla: Chancellor's Doctoral Fellowship for 2012-13, Travelship Award from Clinical Pharmacology and Translational Research (CPTR) Section of AAPS, UMKC Women's Council Graduate Assistance Fund Award, Judith Hemberger Graduate Scholarship
- Ravi Vaishya: UMKC School of Graduate Studies Travel Grant
- Wuchen Wang: UMKC School of Graduate Studies Travel Grant
- Zhiying Wang: UMKC Health Sciences Student Research Summit Award

Summary of 2013 Graduate Student Research Publications and Presentations

IPhD discipline enrollment during 2013	Publications	Presentations
Pharmaceutical Sciences (n = 48)	46	32
Pharmacology (n = 16)	9	8

Our graduate students demonstrate their research proficiency through participation in faculty research, development of their own related studies, and the dissemination of their work through peer-reviewed publications as well as presentations at scientific meetings. Typically, graduates from our doctoral programs have published multiple peer-reviewed articles and are engaged in an ongoing program of research. Our graduates are well-trained to work as independent scientists in industry and/or academe.

Publications:

Ande A, McArthur C, Kumar A, Kumar S. Tobacco smoking effect on HIV-1 pathogenesis: role of cytochrome P450 isozymes. *Expert Opin Drug Metab Toxicol*. 2013;9(11):1453-64.

Ande A, McFarlin K, Kumar S. Alcohol and smoking mediated oxidative stress in organ toxicities: role of cytochrome P450 systems. *Min Rev Org Chem*. 2013;10(4):384-92.

Barot M, Gokulgandhi MR, Ray A, Mitra AK. Nanofiber. In: Mitra AK, Lee CH, Cheng K, editors. *Advanced Drug Delivery*. 1st ed. New York: Wiley & Sons; 2013. Chapter 11 (p. 219-230). ASIN: B00GO3VT3E.

Barot M, Patel M, Kwatra D, Mitra AK. Transporter-metabolism interplay in the eye. In: Mitra AK, editor. *Ocular Transporters and Receptors: Their Role in Drug Delivery*. 1st ed. Cambridge (UK): Woodhead Publishing Ltd.; 2013. Chapter 7 (p. 229-248). ISBN: 1907568867.

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Job Placement of Fall 2009–Spring 2014 IPHD Graduates

Name	Advisor	Year Graduated	Company/University	Position
Acharya, Gayathri	Lee	2013	Children's Mercy Hospital, Kansas City, Missouri	Research Scientist
Barot, Megha	Mitra	2013	U.S. Pharmacopeia, Rockville, Maryland	Reference Standard Scientist III
Bobba, Sudheer	Gutheil	2013	Covance, Madison, Wisconsin	Scientist I
Boddu, Sai "Sagar"	Mitra	2010	University of Toledo, Ohio	Assistant Professor in Pharmaceutical Science
Chaudhuri, Rajoshi	Friedman	2011	KU Medical Center - accepted in NIH in 2012	Scientist
Gaudana, Ripal	Mitra	2011	PAR Pharmaceuticals, Spring Valley, New York	Formulation Scientist
Gokulhandhi, Mitran	Mitra	2013	U.S. Pharmacopeia, Rockville, Maryland	Scientist
Gunda, Sriram	Mitra	2012	Pharmaceutical Product Development (PPD), Richmond, Virginia	Pharmacokineticist
Hariharan, Sudarshan	Mitra	2009	FDA-Washington, D.C.	Clinical Pharmacology Reviewer
Jain, Nitin	Friedman	2013	Trinity Biotech	Senior Research and Development Chemist
Jain, Piyush	Friedman	2013	Harvard-MIT Health Sciences and Technology	Post-Doctoral Researcher
Khurana, Varun	Mitra	2014	Insys Therapeutics, Chandler, Arizona	Formulation Scientist
Kwatra, Deep	Mitra	2011	University of Kansas Medical Center - Dr. Shrikant Anant's lab, Cancer Research Center, Department of Molecular and Integrative Physiology	Post-Doctoral Research Fellow
Luo, Shuanghui	Mitra	2010	Aegis, Nashville, Tennessee	Certifying Scientist and Technical Supervisor
Mahato, Rubi	Cheng	2014	Fairleigh Dickinson University School of Pharmacy	Tenure-Track Assistant Professor
Mandava, Nanda	Mitra	2013	Mylan Pharmaceuticals, Morgantown, West Virginia	Senior Scientist

Name	Advisor	Year Graduated	Company/University	Position
Minocha , Mukul	Mitra	2012	Center for Translational Medicine, School of Pharmacy, University of Maryland	Post-Doctoral Fellow
Mishra , Gyan Prakash	Mitra	2011	College of Pharmacy, Oregon State University, Corvallis, Oregon	Post-Doctoral Research Fellow
Patel , Ashaben	Mitra	2014	Boston Biomedical, Inc., Boston, Massachusetts	Postdoctoral Research Fellow
Patel , Sulabh	Mitra	2014	Roche, Basel, Switzerland	Postdoctoral Fellow
Paturi , Durga	Mitra	2013	IQSPECTRUM, Inc, Piscataway, New Jersey	Clinical Data Analyst
Ponnaluri , Chaithanya	Mukherji	2014	New England Biolabs, Boston, Massachusetts	Post-Doctoral Fellow
Putty , Sandeep	Gutheil	2014	Mylan Pharmaceuticals, Morgantown, West Virginia	Scientist QTS
Qin , Bin	Cheng	2012	Center for Ultrasound Molecular Imaging and Therapeutics, University of Pittsburgh	Post-Doctoral Associate
Renukuntla , Jwala	Mitra	2011	Southern College of Pharmacy, Knoxville, Tennessee	Assistant Professor of Pharmaceutical Sciences
Shukla , Ravi	Cheng	2014	Amneal Pharmaceuticals, LLC, Long Island, New York	Scientist III
Tai , Wanyi	Cheng	2012	University of Washington, Seattle, Washington	Senior Post-Doctoral Fellow
Tamboli , Viral	Mitra	2012	Teva Pharmaceuticals, Pomona, New York	Scientist I
Vadlapatla , Ramya	Mitra	2014	Mylan Pharmaceuticals, Morgantown, West Virginia	Scientist
Vadlapudi , Aswani	Mitra	2013	Mylan Pharmaceuticals, Morgantown, West Virginia	Scientist
Vavilala , Divya	Mukherji	2014		
Wang , Zhiying	Mitra	2013	The University of Kansas, Kansas City, Kansas	Post-Doctoral Researcher
Zhang , Tao	Youan	2013	Orbis Biosciences, Kansas City, Kansas	Scientist

Strategic Initiative II

Our People: Foster the growth and success of students, faculty and staff

Goal II.A. Students: Recruit, retain and graduate a highly qualified and diverse student population

Objective II.A.1. Enhance recruitment efforts to increase the student population diversity

Objective II.A.2. Align recruitment efforts with indicators of success to maximize on-time graduation for all School of Pharmacy Programs (i.e., PharmD, graduate degree)

Objective II.A.3. Develop and implement a process for early identification of at-risk students along with interventions to optimize student progression rates within all School of Pharmacy programs

Measures of Success:

- Pharm.D.
 - Number of qualified applicants each year
 - Percentage male and percentage minority applicants and enrolled students
 - On-time graduation rate, attrition and deceleration rates
 - > 75% agreement with statements in the AACP graduating student survey
 - > 75% satisfaction with school services as reported in the end of year survey
 - List of school diversity initiatives (e.g., diversity task force report, director of minority recruitment activities)
 - Student body diversity as compared to Missouri (goal is to be at least as diverse as the state of Missouri)
 - > 75% of graduating Pharm.D. students remain in the state of Missouri for employment
- Graduate students
 - Graduate student attrition rates, timely progression through the program, and graduation numbers each year
 - Percentage U.S. citizens or permanent residents in program

A number of changes occurred in the recruitment, screening, and matriculation of Pharm.D. students in 2012. The school participated in PharmCAS for the first time, with the 2012 applications. This online application system is utilized by more than 100 pharmacy programs and is supported by the AACP. Prospective students may select up to three schools with payment of an initial fee. Additional schools may be added for additional fees. Further, the Admissions Committee began using a “whole file” review screening process whereby committee members could consider all of the materials in the applicant’s file rather than being limited to a numerical summary index of the variables in the admissions process. Lastly, the program changed to a 2-4 curriculum in 2012.

In 2013, AACP refined the definition of “applicant” to be those prospective students who complete the entire application process (i.e., submit a PharmCAS application, a UMKC application, and were considered by the Admissions Committee). The number of applicants in the following table is lower in 2013 (n = 428) than in previous years (e.g., 2012 n = 518) because of the change in the way the data are reported. The following table provides the comparator data for 2012 and 2013 using the earlier definition of “applicant.”

Pharm.D. applications for 2012 and 2013 under prior application definition:

	2012	2013
Total applicants who indicated UMKC in PharmCAS	518	519
Matriculated	123	124
Denied	146	132
Incomplete	127	84
Withdrew	56	43
Alternate list	17	32
Declined Offer	46	38
Rescinded	3	7

Application and admission statistics:

(old definition for 2009-2012; new definition applied to 2013 statistics)

All Pharm.D. applicants				
	2009	2010	2012	2013
# applied	544	502	518	428
% MO Resident	58%	67%	47%	47%
% Female	58%	62%	57%	63%
% Prev Baccalaureate	23%	18%	30%*	20%
Average Age	24	24	24	23
Average Cum GPA	3.416	3.315	3.33	3.2
Average S/M GPA	3.31	3.3	3.2	3.1
Average # Cr. Hours	92	95	120	121
Ethnicity				
White	60%	60%	59%	61%
Asian/Pacific Islander	18%	13%	19%	22%
Refused to Indicate	7%	13%	4%	
Black or African Amer	10%	10%	9%	9%
International/Foreign	1%	1%	3%	4%
American Indian or AK Nat	0%	1%	1%	2%
Hispanic or Latino	1%	2%	3%	3%
Two or more races	1%		2%	0
Not Specified	2%			0
PCAT %				
Verbal	56	56	53	53
Biology	56	56	61	61
Reading Comprehension	54	52	45	46
Quantitative Ability	56	50	48	50
Chemistry	51	48	54	60
Composite			55	56
Entering Pharm.D. Class				
	2009	2010	2012	2013
	(1:5)	(1:5)	(2:4)	(2:4)

All Pharm.D. applicants

	2009	2010	2012	2013
# accepted	175	161	169	170
# matriculated	138	138	123	124
% MO Resident	82.5%	89%	89%	89%
% Female	53%	68%	57%	61%
% Prev Baccalaureate	21%	17%	28%	32%
Average Age	22	23	22	22
Average Cum GPA	3.64	3.615	3.54	3.51
Average S/M GPA	3.58	3.57	3.45	3.40
Average # Cr. Hours	79	76	92	98
Ethnicity				
White	78.1%	80%	80%	82%
Asian/Pacific Islander	8.76%	10%	11%	8%
Refused to Indicate	6.57%	5%	0%	
Black or African Amer	2.92%	2%	3%	5%
International/Foreign	0.73%	0%	0%	4%
American Indian or AK Nat	0.73%	1%	0%	3%
Hispanic or Latino	0.73%	2%	4%	2%
Two or more races	0.73%		2%	0
Not Specified	0.73%		0%	0
PCAT %				
Verbal	70	64	60	60
Biology	62	59	66	63
Reading Comprehension	68	58	51	55
Quantitative Ability	65	56	51	51
Chemistry	54	49	57	62
Composite			60	61

Attrition and Retention

Entry Year	Grad Class		# admitted	On Time Finish (%)	Delayed Finish (%)	Attrition: personal reasons (%)	Attrition: academic dismissal (%)	Graduation rate of original class (%)
2005	2010	Total	114	104 (91%)	5 (4%)	2 (2%)	3 (3%)	109/114 (96%)
		Kansas City	86	79 (92%)	2 (2%)	2 (3%)	3 (2%)	81/86 (94%)
		Columbia	28	25 (89%)	3 (11%)	0 (0%)	0 (0%)	28/28 (100%)
2006	2011	Total	118	107 (90%)	1 (1%)	0 (0%)	10 (8.5%)	108/118 (91.5%)
		Kansas City	90	79 (88%)	1 (1%)	0 (0%)	10 (11%)	80/90 (89%)
		Columbia	28	28 (100%)	0 (0%)	0 (0%)	0 (0%)	28/28 (100%)

Entry Year	Grad Class		# admitted	On Time Finish (%)	Delayed Finish (%)	Attrition: personal reasons (%)	Attrition: academic dismissal (%)	Graduation rate of original class (%)
2007	2012	Total	123	107 (87%)	3 (2%)	3 (2%)	10 (8%)	110/123 (89%)
		Kansas City	95	82 (86%)	2 (2%)	3 (3%)	8 (8%)	84/95 (88%)
		Columbia	28	2 (89%)	1 (4%)	0 (0%)	2 (7%)	26/28 (93%)
2008	2013	Total	138	121 (88%)	3 (2%)	2 (1%)	12 (9%)	124/138 (90%)
		Kansas City	110	98 (89%)	1 (1%)	2 (2%)	9 (8%)	99/110 (90%)
		Columbia	28	23 (86%)	2 (7%)	0 (0%)	3 (11%)	25/28 (89%)

Notes:

- Student progression rates are recalculated at the end of each semester
- Students are tracked with the entering class, not their graduating class
- Percentages are rounded

AACP Graduating Student Survey

On the 2013 AACP graduating student survey, four items had ratings that fell below the school's benchmark of 75%. Career planning and guidance and financial advising were two of the items. The Office of Student Affairs is exploring those issues and identifying strategies to correct any deficiencies. One of the items was awareness of research opportunities. The underlying issue for this item is the lack of a laboratory research requirement within the Pharm.D. curriculum. The dean's office has discussed this situation on a number of occasions with Pharm.D. students, and it does not appear to be a deficiency in the program. Satisfaction with student study areas also fell below the benchmark. The school administration has been expanding options for study space over the past few years. Tables and chairs have been added in open spaces, a room scheduling process has been made available to students to reserve study space, and the associate dean for student affairs is continuing to monitor the situation.

SECTION III: Pharmacy Practice Experiences

My introductory pharmacy practice experiences were valuable in helping me to prepare for my advanced pharmacy practice experiences.

My introductory pharmacy practice experiences permitted my involvement in direct patient care responsibilities in both community and institutional settings.

SECTION IV: Student Services

Career planning and guidance met my needs.

Financial aid advising met my needs.

The college/school of pharmacy effectively managed academic misconduct by students.

I was aware of opportunities to participate in research activities with faculty.

2010	2011	2012	2013
85/107 (79.4%)	79/111 (71.2%)	81/107 (75.6%)	93/124 (75%)
89/107 (83.2%)	75/107 (70.1%)	92/107 (86%)	110/124 (88.7%)
2010	2011	2012	2013
55/79 (69.6%)	64/79 (81.0%)	59/76 (77.6%)	48/74 (64.9%)
71/92 (77.2%)	60/84 (71.4%)	59/77 (76.6%)	61/90 (64.8%)
72/82 (87.8%)	75/86 (87.2%)	68/93 (73.1%)	84/106 (79.2%)
59/104 (56.7%)	57/98 (58.2%)	64/101 (63.4%)	75/117 (64.1%)

SECTION VI: Facilities, Experiential Sites & Educational Resources

The study areas in the college/school of pharmacy or elsewhere on campus were conducive to learning.

2010	2011	2012	2013
90/108 (83.3%)	90/110 (81.8%)	81/107 (75.7%)	92/125 (73.6%)

Fifteen items on the 2013 survey received a rating of 98% or above:

SECTION I: Professional Competencies/Outcomes

The Pharm.D. program prepared me to...

Communicate with health care providers.

Communicate with patients and caregivers.

Gather and use specific information (e.g., patient histories, medical records) to identify patient medication-related problems.

Develop a patient care plan to manage each medication-related problem.

Provide patient care in accordance with legal, ethical, social, economic, and professional guidelines.

Search the health sciences literature.

Evaluate the health sciences literature.

123/125 (98.4%)
125/125 (100%)
124/125 (99.2%)
123/125 (98.4%)
124/125 (99.2%)
122/124 (98.4%)
125/125 (100%)

SECTION II: Doctor of Pharmacy Curriculum

I was provided opportunities to engage in active learning (e.g., laboratories, recitations, student portfolios, problem-based learning, in-class activities).

124/125 (99.2%)

SECTION III: Pharmacy Practice Experiences

In the ambulatory care setting, I was able to apply my patient care skills.

My pharmacy practice experiences allowed me to have direct interaction with diverse patient populations (e.g., age, gender, ethnic and/or cultural background, disease states, etc.).

My pharmacy practice experiences allowed me to collaborate with other health care professionals.

121/122 (99.2%)
124/125 (99.2%)
125/125 (100%)

SECTION V: The Student Experience

The college/school of pharmacy is welcoming to students with diverse backgrounds.

Overall, preceptors modeled professional attributes and behaviors in the pharmacy practice experiences.

I was aware of expected behaviors with respect to professional and academic conduct.

The college/school of pharmacy was supportive of student professional organizations.

116/118 (98.3%)
124/125 (99.2%)
125/125 (100%)
125/125 (100%)

Diversity Initiatives

The Hy-Vee/UMKC Summer Pharmacy Explorations Program gives high-school students the opportunity to learn about pharmacy and pharmacy careers as well as gain hands-on experience working part-time in a Hy-Vee pharmacy. Students in the month-long program receive a biweekly stipend of \$600. The 2012 program had 32 applicants and 14 participants. In 2013, 18 Hy-Vee students participated.

In June, the Schools of Pharmacy, Nursing and Health Science, and Dentistry sponsored the Hospital Hill Health Science Camp for high school sophomores, juniors and seniors. The camp is a year-long academy that provides a one-week on-campus residential experience in the summer and three on-campus meetings throughout the school year. It is designed to introduce high school students, primarily from minority and underrepresented populations, to health science careers. Students learn about dentistry,

nursing, and pharmacy professions, participate in experiential learning activities, tour health profession schools, and receive academic enrichment. Following the summer academy, participants have the opportunity to take part in year-round didactic and clinical activities exposing them to a variety of professional career and clinical specialty opportunities. Woven throughout the curriculum are social and cultural support functions designed to build a sense of community and overcome academic and environmental obstacles to program completion. In 2013, 60 Hospital Hill Students participated, including 20 supported by pharmacy.

Racial Distribution of Pharm.D. Students

	2009		2010		2011		2012		2013	
White	467	76.68	494	79.81	401	81.01	406	79.6	393	78.6
Black or Afr Amer	21	3.45	21	3.39	12	2.42	15	2.94	18	3.6
Hispanic or Latino	4	0.66	6	0.96	5	1.01	10	1.96	11	2.2
Asian or other PI	54	8.87	46	7.43	36	7.27	46	9.2	48	9.6
Amer Ind or Nat AK	1	0.16	3	0.48	3	0.61	2	0.39	3	0.6
Other/Unknown	52	8.54	42	6.79	31	6.26	24	4.7	16	3.2
Foreign	7	1.15	7	1.13	3	0.61	2	0.39	2	0.4
Two or More ethnicities	3	0.49	0	0	4	0.81	5	0.98	9	1.8
Grand total	609		619		495		510		500	

2010 U.S. Census Data for Racial Diversity in Missouri*

Race	%
White	81.0
Black or African American	11.5
Hispanic or Latino	3.5
Asian	1.6
American Indian and Alaskan Native	0.4
Native Hawaiian and Other Pacific Islander	0.1
Some other race	0.1
2 or more races	1.8

**Obtained from U.S. Census Bureau web site*

Plans to Remain in the State of Missouri for Employment

In the senior exit interviews conducted in 2013 (N = 118), students were asked where they planned to practice after graduation:

<u>Missouri Rural</u>	<u>Missouri Urban</u>	<u>Other States</u>	<u>Unknown or Undecided</u>
24 (21%)	64 (54%)	26 (22%)	4 (3%)

We are meeting the benchmark of >75% of graduates remaining in the state of Missouri post-graduation.

Graduate Student Attrition, Progression and Citizenship

- Attrition and Progression for fall 2009-spring 2014:

	Total # enrolled	# currently enrolled	# graduated
Division of Pharmaceutical Sciences	75	31	30
Division of Pharmacology and Toxicology	26	13	5

- Progression – Number of credit hours completed through fall semester 2013:
 - 0-25 credit hours: 15
 - 26-50 credit hours: 14
 - 51-75 credit hours: 25
 - more than 75 credit hours: 2

To mark progression through the graduate program, a white coat ceremony was instituted in the 2012-2013 academic year. Students who have completed two full years of study in the Ph.D. program and who have filed a plan of study with the graduate school are eligible to participate in the white coat ceremony. Students receive a white laboratory coat and take the oath of the scientist signifying their commitment to upholding the highest standards in their scientific contributions to new knowledge. In the inaugural white coat ceremony in May of 2013, 36 graduate students received their white coats.



- Citizenship:
 - Spring 2013
 - 3% of full-time Ph.D. students are U.S. citizens or permanent residents
 - 8% of both full- and part-time Ph.D. students are U.S. citizens or permanent residents
 - Fall 2013
 - 2% of full-time Ph.D. students are U.S. citizens or permanent residents
 - 4% of both full- and part-time Ph.D. students are U.S. citizens or permanent residents

Goal II.B. Staff: Recruit, retain and support a highly qualified and diverse staff who provide key support for the school

Objective II.B.1. Develop and implement effective recruitment and selection processes

Objective II.B.2. Ensure staff roles and responsibilities are well articulated and match the current needs of the school

Objective II.B.3. Provide opportunities for staff to participate in ongoing development of skills to be prepared to meet evolving responsibilities

Objective II.B.4. Provide annual performance feedback to all staff members

Objective II.B.5. Assess job satisfaction annually

Measures of Success:

- > 90% retention rate over five years
- Percentage of staff who complete professional development training each year
- Percentage of staff attending annual school retreat
- Development of updated job descriptions for all staff
- Number of qualified applicants per open staff line
- Development of a systematic process for staff recruitment
- Annual evaluation of staff performance
- Implementation of staff appreciation practices (e.g., staff awards, appreciation luncheon)
- Regular assessment of staff satisfaction with work environment

Staff Retention Rate

In 2013, the staff retention rate was 96%. For all but one of the past seven years, the retention rate was above 90%.

- 2009: 91% retention. 23 staff positions. 2 left.
- 2010: 100% retention. 24 staff positions. 0 left.
- 2011: 96% retention rate. 24 staff positions. 1 left.
- 2012: 96% retention rate. 23 staff positions. 1 left. Instructional technology support staff retired and the position was centralized. One position was added for the Springfield expansion.
- 2013: 96% retention rate. 23 staff positions. Division of Pharmacology and Toxicology staff left and was replaced. In addition, we have a shared advancement officer and a shared development officer.

Staff Development

91% of the staff completed professional development training in 2013.

91% of the staff attended the annual school retreat in 2013.

Number of Qualified Applicants Per Open Staff Line Position

- In the hiring of one staff member in 2013, UMKC Human Resources screened applicants and forwarded three applications to the school. We interviewed all three and an offer was made to one.
- Staff recruitment and selection processes:
 - The School of Pharmacy adheres to the recruitment process described on the UMKC Office of Human Resources web page (<http://www.umkc.edu/hr/recruitment/administrative-recruiting-hiring-process.asp>). Positions are posted on the Human Resources career opportunities web page, and candidates must apply online.
 - Staff recruitments are overseen by the school's business manager. The chair or director of the division or the area where the staff member will be assigned works with the business manager to design the position description, screen the applicants and develop the interview itinerary.

- Responsibilities of the school include completing the hiring freeze exemption form, creating a job opening in eRecruit, reviewing the applications sent by the Human Resources office, interviewing applicants, completing reference checks for the final candidate, contacting the candidate to extend a tentative offer, initiating a criminal background check, and sending an e-mail to candidates who were interviewed but not selected. Human Resources assumes all responsibility for new-hire processing and employee orientation.
- Annual evaluation of staff performance: The guidelines from Human Resources state “a consistent 12 month review period for all employees is recommended across campus.” The School of Pharmacy follows the performance appraisal processes recommended by UMKC. Staff performance evaluations are completed in May of each year with a self-appraisal by the employee, followed by a performance appraisal by the supervisor.
- Staff appreciation and recognition:
 - In April 2013, the dean hosted a staff luncheon in recognition of Administrative Professionals Day. Staff members received a blue polo shirt with the Walt Disney kangaroo logo from the School of Pharmacy and the Pharmacy Foundation.
 - In December 2013, the dean hosted a holiday breakfast for the faculty and staff in Kansas City, and a holiday luncheon for the faculty and staff in Columbia. Staff awards were presented at the breakfast in Kansas City. The recipients were nominated and selected by a vote of all faculty and staff in the school. The names of the winners in each category were engraved on a plaque in the second-floor hallway of the Health Sciences Building. The names were also submitted to the campus staff awards committee as the School of Pharmacy’s nominees for the campus awards. The recipients were:
 - Human Resources Campus Collaboration Award: Tamica Lige
 - Chancellor's Education First Award: Shelly Janasz
 - Chancellor's True Unsung Hero Award: Cynthia Infranca
 - Student Mentor Award: Steven McDonald

Staff Development

- Both the UM system and the UMKC campus offer a range of staff development opportunities. The university and the school encourage attendance by staff at training seminars and development programs. These offerings provide support for work-related success and personal growth.
- The performance appraisal form has a section entitled “Training/Development Plans” that describes the staff member’s training and development need for the next evaluation period. These plans are approved by the supervisor. The self-appraisal form also includes the question “Indicate any training or development that you would like to have during the next review period.”
- In 2013, 91% of the staff participated in professional development activities. School of Pharmacy staff are each allotted \$500 per fiscal year to fund various staff development opportunities (training seminars, books, etc.) pending approval of the supervisor. Staff have until May 1 to use the funding each year. There are also many free resources available through the university.



Staff Diversity

2013	Staff		
	Male	Female	Total
American Indian			
Black		5	5
Hispanic			
White	4	14	18
Asian			
Not Reported			
Total	4	19	23

Goal II.C. Faculty: Recruit, retain and support a highly qualified and diverse faculty

Objective II.C.1. Align faculty recruitment with current programmatic needs

Objective II.C.2. Further develop practices that enhance faculty retention

Objective II.C.3. Provide written annual performance feedback for all faculty

Objective II.C.4. Provide opportunities for professional development for all faculty

Objective II.C.5. Develop and implement evaluation strategies to ensure all instructors (faculty, preceptors and adjunct faculty) provide quality educational experiences for students

Measures of Success:

- Percentage of new hires retained over first six years
- Annual faculty turnover
- Percentage of faculty making adequate progress toward tenure and promotion on annual review
- Peer-reviewed national/international publications regarding teaching/assessment
- Faculty national/international presentations/posters regarding teaching/assessment
- Faculty authored textbooks and book chapters (instructional materials)
- Percentage of faculty possessing advanced certification and licensure (when applicable)
- Regular feedback on faculty performance
- Provision of faculty supports and resources (e.g., faculty development seminars, support for presentations at scientific meetings)
- Editorial board appointments
- Elected leaders in local, regional, and national organizations

The school seeks to recruit, retain, and support a highly qualified and diverse faculty. Our faculty represent a range of ethnicities/races. Faculty demographics as of April 2014 are provided in the following table per the UMKC Human Resources office.

Clinical	Female	Male	Grand Total
Hispanic/Latino	1	1	2
Multiple		1	1
White	18	6	24
Grand Total	19	8	27

Non Clinical Academic	Female	Male	Grand Total
Asian	3	10	13
Black/African American		1	1
Not Specified		1	1
White	5	9	14
Grand Total	8	21	29

	Female	Male	Grand Total
Asian	3	10	13
PROF, ASOC	1	3	4
PROF, ASOC RESRCH		1	1
PROF, AST		3	3
PROFESSOR		2	2
RESRCH ASOC	1	1	2
RESRCH AST	1		1
Black/African American		1	1
PROFESSOR		1	1
Hispanic/Latino	1	1	2
PROF, ASOC CLINCL	1		1
PROF, AST CLINCL		1	1
Multiple		1	1
PROF, AST CLINCL		1	1
Not Specified		1	1
PROF, ASOC		1	1
White	23	15	38
PROF, ASOC	1	2	3
PROF, ASOC CLINCL	6		6
PROF, ASOC RESRCH		1	1
PROF, AST		1	1
PROF, AST CLINCL	11	4	15
PROF, CLINCL	1	2	3
PROFESSOR	2	5	7
RESRCH ASOC	2		2
Grand Total	27	29	56

Faculty Hires, Retention, and Promotion

- Faculty hires from 2009-2013:
 - 2009: Linda Garavalia (transferred from A&S), Kristen DiDonato, Erica Ottis
 - 2010: Russell Melchert, Eric Wombwell, Daniel Aistrope, David Phillips, Kelly Cochran, Lauren Odum, Mark Patterson
 - 2011: Lynn Anliker, Andrew Bzowickyj, Angela Brownfield, Mark Sawkin

- 2012: N/A
- 2013: Kylie Barnes, Amanda Stahnke
- Retention of new hires: From 2009-2013, 15 new hires and a transfer from the College of Arts & Sciences. Thirteen are still with the school, for an 81% retention rate.
- Faculty turnover: From 2009 through 2013, 11 faculty members left the School of Pharmacy:
 - 2009: 3 (one was a retirement)
 - 2010: 1
 - 2011: 1
 - 2012: 3 (includes 1 retiree who is now emeritus faculty)
 - 2013: 3
- Progress towards tenure and promotion with award effective September 1, 2013:
 - One faculty member was under mandatory tenure review, and he received promotion with tenure.
 - Two tenured associate professors applied for and received promotion to full professor.
 - Two non-tenure track faculty members applied for and received promotions in 2013.
 - The Promotion and Tenure Committee conducted annual promotion and tenure reviews of four faculty members.

	2009	2010	2011	2012	2013
# under tenure review			1	3	1
# awarded tenure			1	3	1
# TT promoted	1	2	3	3	3
# NTT promoted	1		1	1	2
# TT annual reviews	6	4	7	4	1

Teaching or Assessment-Related Publications

Bzowyckyj, AS, Janke KK. A consensus definition and core competencies for being an advocate for pharmacy. Am J Pharm Educ. 2013; 77(2):1-8.

DiDonato KL, Ruehter VL, Odum LE, Brownfield AM, Lindsey CC. Assessing student confidence and understanding with the immunization process through implementation of an immunization protocol at a School of Pharmacy. Curr Pharm Teaching and Learning 2013;5(5):417-423.

Hardinger KL, Schauner S, Graham MR, Garavalia LS. Admission predictors of academic dismissal for provisional and traditionally admitted students. Curr Pharm Teaching and Learning 2013; 5:33-38.

Medina MS, Plaza CM, Stowe CD, Robinson ET, DeLander G, Beck DE, **Melchert RB,** Supernaw RB, Roche VF, Gleason BL, Strong MN, Bain A, Meyer GE, Dong BJ, Rochon J, Johnston P. Center for the Advancement of Pharmacy Education 2013 Educational Outcomes. Am J Pharm Ed 2013;77(8):Article 162, (pages 1-10).

Schauner S, Hardinger KL, Graham MR, Garavalia LS . Admissions predictors of unsatisfactory grades in a pharmacy professional degree program. AJPE, 2013;77(1), Article 8, 1-7.

Faculty National/International Presentations/Posters Regarding Teaching/Assessment

Brownfield A, Ruehter VL, Shackles K. Quality assurance data assessing introductory community experiences: Focus on meeting pre-APPE core domains. American Association of Colleges of Pharmacy Annual Meeting, Chicago, IL, July 13-17, 2013. (Abstract) Am J Pharm Ed 2013;77(5):Article 109 (page 31).

Cochran KA, Ottis E, Aistrope D, Garavalia L, Graham M. Implementation and measurement of an activity to foster a sense of community among pharmacy students at distance locations. 2013 American College of Clinical Pharmacy Annual Meeting, Albuquerque, NM, October 13-16, 2013. (Abstract 57) Pharmacotherapy 2013;33(10)e18.

Garavalia LS, Graham MR, Hardinger KL, Marken PA, Melchert RB, Nelson LA Stahnke AM. Academic progression: Defining failure in professional pharmacy programs. American Association of Colleges of Pharmacy Annual Meeting, Chicago, IL, July 13-17, 2013. (Abstract) Am J Pharm Ed 2013;77(5):Article 109 (page 107).

Graham MR, Ruehter VL. Mapping Doctor of Pharmacy curriculum to appendix D of the ACPE Accreditation Standards and Guidelines: Pre-APPE Core Domains and Abilities Roundtable Discussion 11, American Association of Pharmacy Annual Meeting, Chicago, IL, July 13-17, 2013.

Graham MR. Use of performance-based assessments throughout the self-care curriculum. APhA Self-Care Institute, Washington, DC, June 13-16, 2013.

Hall LW, Dyer CA, Gregory G, Madigosky W, **Ottis E**, Morrison K. Taking interprofessional patient safety and quality improvement learning out of the classroom: Lessons learned from 10 years of experience. Collaborating Across Borders IV: Interprofessional Collaboration, Vancouver, British Columbia, Canada, June 12-14, 2013. (Abstract) <http://www.cabiv.ca/Abstract%20Booklet.pdf>

Kimble SJ, Brommelsiek M, Gotham HJ, **Bzowyckyj A, Stoner SC**, McCunniff MD, Lofgreen M, **Graham MR, Lindsey CC, Ruehter VL, Sawkin MT, Schauner S.** Evaluating the impact of interprofessional education: measuring student attitudes and readiness outcomes related to health care delivery in a community-based interprofessional education (IPE) program. Institute of Medicine Global Forum on Innovation in Health Professional Education. October 9-10, 2013.

Lindsey CC. A One-Year Longitudinal opportunity to meet APPE requirements while serving a vulnerable population. American Association of Colleges of Pharmacy Annual Meeting, Chicago, IL, July 13-17, 2013. (Abstract) Am J Pharm Ed 2013;77(5):Article 109 (page 47).

Odum LE, Aistrope DS, Santee JA, Cochran KA, Bacon R. Impact of a debate on APPE students' recognition of critical thinking and professional skills. American Association of Colleges of Pharmacy Annual Meeting, Chicago, IL, July 13-17, 2013. (Abstract) Am J Pharm Ed 2013;77(5):Article 109 (page 27).

Pace HA. Integration of healthcare applications in pharmacy student activities. American Association of Colleges of Pharmacy Annual Meeting, Chicago, IL, July 13-17, 2013.

Ralston EA, **Pace HA, Sperry ML, Bryant PJ**. Drug reference application (app) use among pharmacy students at a single university. American Society of Health System Pharmacists Midyear Clinical Meeting, Orlando FL. December 8-12, 2013. (Abstract 5-243).

Ruehter VL. Ask not what you can do for your students, but what your students can do for you. Win-Win: Collaboration to Improve Employee Health and Student Skills Experiential Education Section Best Practices in APPEs and IPPEs. American Association of Colleges of Pharmacy, Chicago, IL, July, 2013.

Sawkin MT, Stoner SC, Bzowickij A, Schauner SM, Lindsey CC, Ruehter VL, Graham MR, Kimble SJ, Brommelsiek M Gotham HJ. Student attitudes, readiness, and self-reflective outcomes of a community-based interprofessional education (IPE) program. West Michigan Interprofessional Education Conference. September 19-20, 2013.

Stoner SC, Ruehter VL Graham MR. Generating interest in academic based pharmacy careers through an academic and administrative pharmacy rotation. American Association of Colleges of Pharmacy Annual Meeting, Chicago, IL, July 13-17, 2013.

Stoner SC. Pharmacologic treatment of major depressive disorder. College of Psychiatric and Neurologic Pharmacists Annual Meeting in Colorado Springs, CO, April 21-24, 2013.

Trimble C, **Smith AJ, Pace HA**. Residency program directors' view on the value of teaching. American Society of Health-System Pharmacists Midyear Clinical Meeting and Exhibition, Orlando, FL, December 8-12, 2013. (Abstract 9-030) <http://www.ashp.org/DocLibrary/Midyear13/Resident-Poster-Abstracts.pdf>.

Winans EA, Graham MR, Marken PA. Integration of health information technology into a pharmacotherapy course series: use of an academic electronic medical record. College Neurologic and Psychiatric Pharmacists, Colorado Springs, CO, April 21-24, 2013. (Abstract 136) J Pharm Pract 2013;26(3):316.

Wombwell E, Caligiuri FJ. Student perceptions of live internet based student journal clubs presented synchronously to multiple distance locations. American Association of Colleges of Pharmacy Annual Meeting, Chicago, IL, July 13-17, 2013. (Abstract) Am J Pharm Ed 2013;77(5):Article 109 (page 141).

Yaeger JS, **Snella KA, Caligiuri FJ**. Attitudes of medical students towards pharmacy students after early interprofessional collaboration. American Society of Health-System Pharmacists Midyear Clinical Meeting and Exhibition, Orlando, FL, December 8-12, 2013. (Abstract 2-210) <http://www.ashp.org/DocLibrary/Midyear13/Student-Poster-Abstracts.pdf>

Teaching and Assessment-Related Awards

2013 Provost's Award for Excellence in Teaching: **Eric Wombwell**, Clinical Assistant Professor, Division of Pharmacy Practice and Administration, School of Pharmacy



2013 Chancellor's Award for Excellence in Graduate Mentoring: **Ashim Mitra**, Vice Provost of Interdisciplinary Research/Director of Translational Research, Curators' Professor and Chair, Division of Pharmaceutical Sciences, School of Pharmacy



2013 Governor's Award for Excellence in Teaching: **Simon Friedman**, Professor, Division of Pharmaceutical Sciences, School of Pharmacy



2013 President's Award for Inter-Campus Collaboration: The UM President's Inter-Campus Collaboration Award was awarded to **Erica Ottis** (UMKC School of Pharmacy), **Carla Dyer** (MU School of Medicine), and **Gretchen Gregory** (MU School of Nursing). Each year, the UM President's Intercampus award recognizes faculty who engage in activities that foster collaboration across two or more campuses of the University of Missouri System. Collaboration may be in the areas of teaching, scholarship, research, service, creativity, outreach or economic development.



The MU School of Medicine, the MU Sinclair School of Nursing, and the UMKC School of Pharmacy have joined together to offer health professional students a unique series of Interprofessional Learning Experiences (IPEs). The IPEs have expanded since 2009 to provide students with foundational knowledge, skills, and attitudes to provide safe and effective patient care and to work as part of a health care team. Currently, over 500 health professional students participate in these activities annually, totaling over 4,500 contact hours. Additionally, over 100 faculty and staff, from a variety of health care disciplines, participate annually. Collaborating across the MU and UMKC campuses allows each school to offer experiences that they wouldn't be able to independently and allows students of different disciplines to learn together.

Participation in Peer Review of Teaching in 2013

- Steve Stoner – peer teaching evaluation for Amanda Stahnke
- Steve Stoner – peer teaching evaluation for Kathy Snella
- Lauren Odum – peer teaching evaluation for Steve Stoner
- Lauren Odum – peer teaching evaluation for Cameron Lindsey
- Lauren Odum – peer teaching evaluation for Eric Wombwell
- Patricia Marken – reviewed 4 lectures by Orisa Igwe (2 pharmacology, 2 toxicology). Observed lectures, reviewed slides and gave written and verbal feedback to Dr. Igwe.

Faculty Certifications and Licensure Status

- In the Division of Pharmacy Practice and Administration, 24 out of 39 faculty (61.5%) have board certifications; 35 out of the 39 faculty (90%) have active pharmacist licenses in one or more states.

Name	Certification(s)	Licensure Status
Aistrope, Daniel		Missouri active; Minnesota active
Anliker, Lynn	BCPS	Missouri active; Iowa active; Colorado active
Barnes, Kylie	BCPS	Missouri active; West Virginia active
Brown, Wayne	FSCIP	Missouri active
Brownfield, Angela		Missouri active
Bryant, Patrick	FSCIP	Missouri active; Nebraska active
Bzowyckyj, Andrew	BCPS, CDE	Missouri active; Minnesota active; Connecticut active
Cochran, Kelly	BCPS	Missouri active; Iowa active; Illinois active; Indiana active
DiDonato, Kristen	BCACP	Ohio active; Missouri active
Fincham, Jack		Colorado active; Kansas active; Alabama inactive, Georgia inactive, Minnesota inactive, Mississippi inactive, Nebraska inactive
Garavalia, Linda		n/a
Graham, Maqual		Missouri active
Hampton, Jeremy	BCPS	Missouri active; North Carolina inactive
Hardinger, Karen	BCPS	Kansas active; Missouri active
Knell, Maureen	BCPS, BCACP	Missouri active
Kuehl, Peggy	BCPS, FCCP	South Dakota inactive; Minnesota active; Illinois inactive; Missouri active; Kansas active
Lindsey, Cameron	BC-ADM, CDE, BCACP	Missouri active
Liu, Yifei		n/a
Marken, Patricia	BCPP, FCCP	Missouri active
McQueen, Cydney		Missouri active; Kansas active
Mead, Tatum		Missouri active; Iowa active
Nelson, Leigh Anne	BCPP	Missouri active
Odum, Lauren	BCPS	Missouri active
Ottis, Erica	BCPS	Missouri active
Pace, Heather		Missouri active
Patterson, Mark		n/a
Rasu, Rafia		n/a
Ruehter, Valerie	BCPP	Missouri active
Santee, Jennifer		Missouri active; Iowa active
Sawkin, Mark	AAHIVP	Kansas active; Missouri active
Schauner, Stephanie	BCPS	Missouri active
Smith, Andrew	BCPS (AQ Cardiology)	Missouri active; Kansas active
Snella, Kathleen	BCPS, FCCP	Missouri active; Texas inactive
Sommi, Roger	BCPP	Missouri active; Texas active
Sperry, Morgan		Missouri active; Nebraska active; Iowa active

Name	Certification(s)	Licensure Status
Stahnke, Amanda	BCACP	Missouri active; Illinois active
Stoner, Steven	BCPP	Missouri active; Nebraska inactive
Winans, Beth	BCPP	Missouri active; Oklahoma active
Wombwell, Eric	BCPS	Missouri active

In the Division of Pharmaceutical Sciences, one faculty member is a registered pharmacist—Thomas Johnston (Kansas active; Minnesota inactive). In the Division of Pharmacology and Toxicology, two faculty members are registered pharmacists—Orisa Igwe (Louisiana inactive; Minnesota inactive; Ohio inactive) and Russell Melchert (Arkansas active; Oklahoma active).

Annual Performance Feedback for All Faculty

A structured faculty performance evaluation is conducted each year via a management by objectives (MBO) process. Each faculty member provides their division chair with a set of projected goals for the upcoming academic year and a summary of their performance on the MBO for the current year. Faculty also submit, via the online faculty accomplishment system, a summary of all scholarly activity, teaching, and service provided to the school, university, profession, and community. All of the information is reviewed by the division chair and evaluated based on attainment of goals and objectives as stated in the current year MBO and on faculty citizenship. Discussion points with regard to performance of the previous year, as well as the establishment of goals for the upcoming year, are identified by the division chairs. Chairs meet personally with each faculty member to discuss the issues, and a memorandum summarizing the performance of the past year and the objectives for the coming year is sent to the faculty member for discussion and signature.

Faculty Advisors

Each entering student is assigned a specific faculty advisor for the duration of their enrollment in the doctor of pharmacy program. Average number of advisees:

- 2012-2013
 - 39 faculty participated as advisors
 - Each faculty averages 13 advisees (range 3-22)
- 2013-2014
 - 40 faculty participated as advisors
 - Each faculty averages 12.5 advisees (range 2-19)

Professional Development Opportunities for Faculty

The dean appoints faculty to a Faculty Development Task Force each year. The task force charges are based on the strategic plan, but vary from year to year. For 2012-2013, the charges were as follows:

1. Further develop practices that enhance faculty retention (Strategic Plan II.C.2.)
2. Provide opportunities for professional development for all faculty (Strategic Plan II.C.4.)
3. Assist the associate dean for academic affairs in providing and describing faculty development initiatives related to the expansion of the Pharm.D. program to MSU as needed (School Initiative)

The task force chair submitted the following year-end report:

Meeting Dates:	9/10/12, 10/1/12, 11/5/12, 2/11/13, 3/11/13, 4/8/13
Introduction:	There were many new and exciting opportunities for faculty development in 2012-13. The Faculty Development Task Force was charged with important objectives and strides were taken to achieve these objectives. The committee worked hard to continue the faculty development sessions in conjunction with the faculty meetings and added a book club this year. Noted below are the 2012-13 objectives and the actions taken by the committee.
Committee Members:	Chair: A. Smith Committee Members: L. Garavalia (ex officio), S. Kumar, D. Phillips, C. Youan, L. Walton (staff/support)
Objectives 2012-13:	Actions
1. Further develop practices that enhance faculty retention (SP Objective II.C.2.)	<ul style="list-style-type: none"> • A proposed action was the development of an “Academic Affairs/Faculty Development” website to improve communication of activities <ul style="list-style-type: none"> ○ Current plan is to add faculty development content to academic affairs section. The place holder has been built the committee needs to determine content. http://pharmacy.umkc.edu/academic-divisions/academic-affairs/support for academic personnel/faculty development. • The committee had numerous discussions regarding the need for more consistent/frequent faculty recognition. However, the committee could never settle on the best approach to accomplish this.
2. Provide opportunities for professional development for all faculty (SP Objective II.C.4)	<ul style="list-style-type: none"> • With the assistance of the dean’s office the committee organized six faculty development sessions this year. <ul style="list-style-type: none"> ○ 9/5/12 - Instructional design/Active learning tools (Garavalia) <ul style="list-style-type: none"> ▪ Attendance - 17 ○ 10/17/12 - “Developing and sustaining a program of scholarship for promotion and/or tenure” (Paul Gubbins University of Arkansas) <ul style="list-style-type: none"> ▪ Attendance - 28 ○ 11/28/12 - Overview of the Affordable Care Act- Pharmacy Perspective (Kit Wager of HHS) <ul style="list-style-type: none"> ▪ Attendance - 13 ○ 2/20/13 - Webcam training (Jing Zu, UMKC ITS) <ul style="list-style-type: none"> ▪ Attendance - 13 ○ 4/3/13 - Student Entitlement roundtable (Andy Smith) <ul style="list-style-type: none"> ▪ Attendance - 16 ○ 5/1/13 - Time Management Book Club (David Phillips) <ul style="list-style-type: none"> ▪ <i>Getting Things Done: The Art of Stress-Free Productivity</i>, David Allen
3. Assist the associate dean for academic affairs in describing the	<ul style="list-style-type: none"> • No formal requests from the associate dean for academic affairs were made to the committee. • Discussion at numerous meetings focus on the need for additional

actual and planned mechanisms for faculty development related to the program expansion to Springfield	development regarding engaging distance education students and best practices. Also a discussion about the possible need for faculty focus groups
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- Included in the awards and incentives for the School of Pharmacy faculty are:
 - Funding for development leave: an opportunity for faculty to gain or expand their skills in practice or research under the guidance of experts in their area of interest, including learning new educational techniques to enhance or expand their effectiveness as an educator.
 - Support for practice/education innovations: faculty members can request funding for resources such as equipment and texts that will enhance the educational environment for their students.

Editorial Boards

- Hari Bhat – *Advances in Medicine; Journal of Pharmacology and Clinical Toxicology*; Advisory Board Member, *OA Medical Hypothesis*
- Andrew Bzowickyj – *Journal of Health-System Pharmacy Residents (JHPR)*
- Jack Fincham – Associate Editor, *American Journal of Pharmaceutical Education*; Editorial Board Member, *Annals of Pharmacotherapy*; Regional Editor for North America, *The International Journal of Pharmacy Practice*; Editorial Board Member, *American Health and Drug Benefits*
- Linda Garavalia – *Faculty Development Journal*
- Karen Hardinger – *Conference Papers in Medicine; Dataset Papers in Medicine; Conference Papers in Immunology; World Journal of Transplantation*
- Orisa Igwe – *SOJ Anesthesiology and Pain Management; SOJ Pharmacy and Pharmaceutical Sciences; UK Journal of Pharmaceutical and Biosciences*
- Anil Kumar – Academic Editor, *PLOSone*; Member, *Journal of NeuroImmune Pharmacology*; Member, *Journal of NeuroVirology*
- Thomas Johnston – *Journal of Pharmacy and Pharmacology; Journal of Ocular Biology, Diseases, and Informatics*
- Chi Lee – *Advances in Biomaterials* (Hindawi Publishing Corp)
- Russell Melchert – *Cardiovascular Toxicology; Toxicology in Vitro; Regenerative Medicine Research*
- Ashim Mitra – *OA Drug Design & Delivery; Journal of Biotechnology & Biomaterials; Current Eye Research; European Journal of Drug Metabolism and Pharmacokinetics; Experimental Eye Research/Elsevier Editorial System*; Editorial Advisory Board, *Pharmaceutical Research*
- Jianping Wang – *Neuroscience Journal; World Journal of Psychiatry*

Faculty as Elected Officers in Local, Regional, and National Pharmacy or Health-Related Professional Organizations

- Andrew Bzowickyj – Secretary-Treasurer, Kappa Psi Pharmaceutical Fraternity, Kansas City Graduate Chapter; New Practitioner Officer, American Pharmacists Association, Academy of Pharmacy Practice and Management (APhA-AAPM)
- Anil Kumar – President Elect, Society of NeuroImmune Pharmacology
- Ashim Mitra – Selection Committee for American Association for Advancement of Science
- Rafia Rasu – Officer of National Organizational Affairs Committee of AMCP

- Andrew Smith – President-Elect, Missouri Society of Health-System Pharmacists; Region IV Councilor, Rho Chi Pharmacy Honor Society; Past-President, Greater Kansas City Society of Health-System Pharmacists
- Steven Stoner – AACP Council of Sections Secretary; AACP Pharmacy Practice Section in the COS, Chair Elect; AACP COS Chair of Strategic Planning Task Force, appointed; CPNP Chair of Business Development, appointed

Faculty Recruitment

In 2012 and 2013, the Division of Pharmacy Practice and Administration recruited for two clinical assistant professor positions, which were filled in September 2012 and August 2013. The primary practice sites were established in the ambulatory care outpatient clinics of the Kansas City Veterans Administration Hospital and Kansas City Care Clinic, Prospect Location.

AACP Faculty Survey Results: Provision of Faculty Resources and Supports

On the 2013 AACP faculty survey, four items had ratings that fell below the school's benchmark of 75% who agreed/strongly agreed with the statement.

SECTION I: Administrative System

I am given the opportunity to provide evaluative feedback of the administrators.

2011	2012	2013
33/47 (70%)	23/36 (63.9%)	25/32 (78.1%)

SECTION II: Recruitment and Retention

I receive formal feedback on my performance on a regular basis.

The college/school consistently applies promotion and/or tenure policies and procedures.

35/48 (73%)	31/36 (86.1%)	29/33 (87.9%)
28/37 (76%)	22/32 (68.8%)	25/29 (86.2%)

SECTION III: Infrastructure

I receive adequate support staff resources.

The physical facilities enable out-of-class interaction among administration, faculty, and students.

38/49 (78%)	30/3/ (78.9%)	24/33 (72.7%)
40/49 (82%)	26/36 (72.2%)	21/31 67.7%)

SECTION V: Faculty Development

Funds are available to support my faculty development.

Programs are available for non-practice faculty to orient them to the pharmacy profession and professional education.

30/46 (65%)	28/38 (73.7%)	22/30 (73.3%)
22/35 (63%)	19/26 (73%)	14/21 (66.7%)

SECTION VIII: Academic Roles

In my opinion, the proportion of my time spent on research is:

In my opinion, the proportion of my time spent on service is:

In my opinion, the proportion of my time spent on clinical service is:

Appropriate	Appropriate	Appropriate
28/47 (60%)	20/23 (87%)	32/33 (97%)
37/48 (77%)	25/36 (69.4%)	28/33 (84.8%)
15/27 (56%)	13/20 (65%)	18/23 (78.3%)

Seven items on the 2013 survey received a rating of 98% or above:

SECTION I: Administrative System

I am aware that my college/school has policies for dealing with harassment and discrimination.

33/33 (100%)

SECTION II: Recruitment and Retention

I am encouraged to engage in scholarly activity.

33/33 (100%)

SECTION III: Infrastructure

I have access to library and other educational resources.

33/33 (100%)

SECTION VI: Curriculum, Teaching, and Assessment

The Pharm.D. Program prepares students to...

- develop and use patient-specific pharmacy care plans.
- communicate with patients, caregivers, and other members of the interprofessional health care team.
- apply state and federal laws and regulations to the practice of pharmacy.
- maintain professional competence.

31/31 (100%)

33/33 (100%)

31/31 (100%)

32/32 (100%)

Strategic Initiative III

Research: Advance scientific innovation and translational research

Goal III.A. Foster the creation of high quality research with on-going annual funding of \$5 million

Objective III.A.1. Support collaboration within and across all divisions (internal)

Objective III.A.2. Promote collaboration to strengthen graduate research

Objective III.A.3. Develop and implement interdisciplinary research projects as opportunities for funding

Objective III.A.4. Establish a mechanism for bridge grant(s) by the School of Pharmacy

Objective III.A.5. Establish a mechanism to increase research skills of faculty (practical/grant writing)

Measures of Success:

- NIH funding (\$) per basic science FTE AACP ranking
- Non-NIH federal funding (\$)
- Industry, foundation and other funding (\$)
- Number of grant proposals submitted each year
- Number of grant proposals funded each year
- Participation in grantsmanship seminars/workshops

Total NIH Funding**

	2005	2006	2007	2008	2009	2010
School (n)	1,594,354	1,120,511	1,060,897	3,150,844	3,070,490	2,467,634
National (avg.)	3,749,402	3,865,412	3,902,247	4,167,440	4,709,979	4,907,975
Cohort (avg.)	4,409,811	6,541,481	5,735,792	5,037,814	5,945,896	5,517,231

Cohort: Creighton University, Southern Illinois University-Edwardsville, The University of Iowa, University of Arkansas for Medical Sciences, University of Kansas, University of Nebraska Medical Center

**report from AAMS, March 2014 (most recent data available)

NIH Funding Per FTE AACP Ranking

Fiscal year	2009	2010	2011	2012	2013
AACP NIH ranking	26/68	36/73	35/75	40/79	not available
Active grants	34	31	41	33	27
Proposals submitted	62	53	36	22	30

- The UMKC School of Pharmacy ranked 42 out of 86 for all grants in the AACP rankings for FY 2012. Grants included are NIH, other federal, and non-federal PI grants and co-PI subgrants for FY 2012. Numbers are not yet available for 2013.
- In 2013, faculty in the School of Pharmacy had 27 active grants: 10 NIH, 1 NSF, and 16 industry/foundation/other grants. Seven funded grants began in 2013.

Research Support

- The dean and the Research Advisory Council approved a bridge funding policy in August 2012, and distributed it to all faculty in the school. The dean committed funding of \$100,000 for 2012-2013, and requests were limited to \$15,000 each. Instructions for the application procedure and review process included:
 - “Faculty must submit an application to the division chair. Applications are due on or before September 17, 2012, with a possible start date of January 1, 2013.”
 - “The division chair will forward the proposal along with a written recommendation regarding disposition of the proposal to the dean. The dean will forward the proposal and chair’s recommendation to the Research Advisory Council (RAC) for review. The chair of the applicant’s division will not participate in the deliberations of the RAC regarding the proposal other than to provide a written recommendation. The RAC will provide a recommendation to the dean regarding the disposition of the proposal. The dean will make the final funding decision.”
- In 2012, the dean received six proposals requesting a total of \$84,150; three proposals from faculty in the Division of Pharmacology and Toxicology, and three from faculty in the Division of Pharmaceutical Sciences. The dean accepted the council’s recommendation to fund all six proposals. The applicants were given instructions to report back to the council as to how they used the funding and project outcomes.
- In June 2012, the school sponsored a patent seminar. Manfred Wolff conducted the afternoon seminar. He is a registered patent agent and pharmaceutical/biotechnology/medicinal chemistry patent consultant.

Participation in Grantsmanship Seminars/Workshops

- 2011: 42 School of Pharmacy faculty members participated in a grant writing seminar sponsored by the school and provided by David Morrison. The seminar addressed fundamentals of grant writing and the submission process. Dr. Morrison has a Ph.D. in molecular biology and biophysics from Yale University. He has received continuous funding from NIH since the early 1970s, and he provides grant-writing seminars and workshops for faculty at universities across the country.
- 2012: Erica Ottis
- 2013: Hari Bhat, Erica Ottis

Number of Grant Proposals Submitted in 2013 (total = 30)

- Division of Pharmaceutical Sciences (12)
 - Kun Cheng – American Cancer Society
 - Kun Cheng – NIH
 - Kun Cheng – NIH
 - Simon Friedman – NIH
 - Simon Friedman – American Diabetes Association
 - William Gutheil – NIH
 - William Gutheil – NIH
 - Chi Lee – American Heart Association
 - Chi Lee – NIH
 - Chi Lee – NIH
 - Chi Lee – NIH
 - Celestin Youan – Edward Mallinckrodt Jr. Foundation

- Division of Pharmacology and Toxicology (8)
 - Hari Bhat – NIH
 - Hari Bhat – NIH
 - Orisa Igwe – Department of Defense
 - Anil Kumar – NIH
 - Anil Kumar – NIH
 - Anil Kumar – NIH
 - Santosh Kumar – Burroughs Wellcome Fund
 - Jianping Wang – NIH
- Division of Pharmacy Practice and Administration (10)
 - Andrew Bzowyckj – American Association of Colleges of Pharmacy
 - Yifei Liu – Community Pharmacy Foundation
 - Leigh Anne Nelson – The Feinstein Institute for Medical Research
 - Leigh Anne Nelson – The Feinstein Institute for Medical Research
 - Leigh Anne Nelson – The Feinstein Institute for Medical Research
 - Mark Patterson – University of KS Medical Center Research Institute, Inc.
 - Mark Patterson – Agency for Healthcare Research and Quality
 - Rafia Rasu – Missouri Department of Health and Senior Services
 - Rafia Rasu – NIH
 - Rafia Rasu – Missouri Department of Social Services

Grants, 2009-Present (those active in 2013 are highlighted in yellow)

<i>Principal Investigator</i>	<i>Agency</i>	<i>Active Dates</i>	<i>Direct Costs</i>	<i>Indirect Costs</i>
Hari Bhat, Ph.D.	NIH National Cancer Institute	8/15/2009–7/31/2012	\$264,013.00	\$129,366.00
Kun Cheng, Ph.D.	U.S. Department of Defense	09/01/2008 – 09/30/2009	\$73,212.00	\$35,874.00
Kun Cheng, Ph.D.	NIH National Institute on Alcohol Abuse and Alcoholism	9/10/2009–8/31/2011	\$155,477.00	\$54,303.00
Kun Cheng, Ph.D.	NIH National Institute on Alcohol Abuse and Alcoholism	9/10/2009 – 8/31/2011	\$130,242.00	\$50,222.00
Kun Cheng, Ph.D.	NIH National Cancer Institute	1/1/2010–12/31/2012	\$259,216.00	\$106,237.00
Kun Cheng, Ph.D.	NIH National Institute on Alcohol Abuse and Alcoholism	9/15/2012–8/31/2017	\$349,850.00	\$151,754.00
Simon Friedman, Ph.D.	NIH National Institute of Health	04/1/2003 – 03/31/2009	\$718,102.00	\$256,020.00
Simon Friedman, Ph.D.	NSF Division of Chemistry	9/15/2011–8/31/2014	\$158,601.00	\$61,458.00
Maqual Graham, Pharm.D.	Midwest Biomedical Research Foundation	10/1/2008 – 9/30/2011	\$56,548.00	
Maqual Graham, Pharm.D.	Midwest Biomedical Research Foundation	10/1/2008 – 9/30/2012	\$37,746.00	
Maqual Graham, Pharm.D.	Midwest Biomedical Research Foundation	10/1/2009 – 9/30/2012	\$36,088.00	
Maqual Graham, Pharm.D.	Midwest Biomedical Research Foundation	10/1/2009 – 9/30/2012	\$39,675.00	

<i>Principal Investigator</i>	<i>Agency</i>	<i>Active Dates</i>	<i>Direct Costs</i>	<i>Indirect Costs</i>
Maqual Graham, Pharm.D.	Midwest Biomedical Research Foundation	10/1/2011 – 9/30/2012	\$720.00	
William Gutheil, Ph.D.	University of Kansas Medical Center Research Institute, Inc.	9/26/2011–5/16/2012	\$21,974.00	\$9,921.00
Orisa Igwe, Ph.D.	NIH National Institute of Dental And Craniofacial Research	7/1/2011–6/30/2014	\$248,626.00	\$119,866.00
Thomas Johnston, Ph.D.	Trilogic Pharma, LLC	04/01/2008 – 03/31/2009	\$48,246.00	\$6,754.00
Thomas Johnston, Ph.D.	Trilogic Pharma, LLC	04/01/2009 – 03/30/2010	\$73,400.00	\$10,276.00
Thomas Johnston, Ph.D.	Trilogic Pharma, LLC	04/01/2010 – 3/30/2011	\$77,786.00	\$10,890.00
Thomas Johnston, Ph.D.	Trilogic Pharma, LLC	4/1/2011–9/30/2011	\$37,401.00	\$5,236.00
Thomas Johnston, Ph.D.	Trilogic Pharma, LLC	8/1/2012–1/31/2013	\$39,688.00	\$11,906.00
Peggy Kuehl, Pharm. D.	National Association of Chain Drug Stores Foundation	07/01/2011 – 06/30/2014	\$50,000.00	
Anil Kumar, Ph.D.	NIH National Institute on Alcohol Abuse and Alcoholism	4/1/2007–3/31/2011	\$783,798.00	\$368,724.00
Anil Kumar, Ph.D.	NIH National Institute on Drug Abuse	2/1/2008–11/30/2011	\$302,609.00	\$147,376.00
Anil Kumar, Ph.D.	NIH National Institute on Drug Abuse	9/30/2008–3/31/2015	\$1,083,918.00	\$293,486.00
Anil Kumar, Ph.D.	NIH National Institute on Drug Abuse	4/1/2009–3/31/2015	\$632,101.00	\$305,849.00
Anil Kumar, Ph.D.	NIH National Institute on Alcohol Abuse and Alcoholism	9/10/2012–6/30/2017	\$273,675.00	\$119,968.00
Anil Kumar, Ph.D.	NIH National Institute on Alcohol Abuse and Alcoholism	03/21/2013 – 06/30/2014	\$15,000.00	\$1,500.00
Santosh Kumar, Ph.D.	NIH National Institute on Drug Abuse	5/1/2011–4/30/2014	\$179,114.00	\$88,913.00
Santosh Kumar, Ph.D.	NIH National Institute on Drug Abuse	9/20/2013 – 5/31/2018	\$91,651.00	\$46,742.00
Chi Lee, Ph.D.	Missouri Department of Economic Development	1/1/2009–12/31/2012	\$263,866.00	\$60,134.00
Cameron Lindsey, Pharm.D.	Midwest Biomedical Research Foundation	10/1/2008 – 9/30/2010	\$2,405.00	
Yifei Liu, Ph.D.	Abbott Lab	11/01/2009 – 12/31/2009	\$10,000.00	\$5,000.00
Yifei Liu, Ph.D.	Abbott Lab	04/01/2010 – 06/30/2010	\$13,333.00	\$6,667.00
Yifei Liu, Ph.D.	Abbott Lab	5/24/2012—02/28/2014	\$33,333.00	\$16,667.00
Ashim Mitra, Ph.D.	NIH National Eye Institute	1/15/2006–12/31/2011	\$1,077,662.00	\$435,981.00
Ashim Mitra, Ph.D.	St. Luke’s Hospital	02/01/2007 – 01/31/2009	\$19,800.00	
Ashim Mitra, Ph.D.	Lux Biosciences, Inc.	05/01/2007 – 04/30/2009	\$75,110.00	\$10,390.00

<i>Principal Investigator</i>	<i>Agency</i>	<i>Active Dates</i>	<i>Direct Costs</i>	<i>Indirect Costs</i>
Ashim Mitra, Ph.D.	St. Luke's Hospital	10/25/2007 – 10/24/2009	\$24,600.00	
Ashim Mitra, Ph.D.	Missouri Life Science Research Board	01/01/2008 – 12/31/2010	\$259,287.00	\$52,986.00
Ashim Mitra, Ph.D.	NIH National Institute of Allergy and Infectious Diseases	1/15/2008–12/31/2014	\$914,781.00	\$389,918.00
Ashim Mitra, Ph.D.	Lux Biosciences, Inc.	02/01/2008 – 01/31/2009	\$31,660.00	\$3,680.00
Ashim Mitra, Ph.D.	NIH National Institute of Health	03/01/2008 – 02/28/2009	\$7,350.00	
Ashim Mitra, Ph.D.	Lux Biosciences, Inc.	02/12/2010 – 03/11/2011	\$4,000.00	
Ashim Mitra, Ph.D.	NIH National Eye Institute	4/1/2010–3/31/2012	\$727,422.00	\$274,976.00
Ashim Mitra, Ph.D.	Summa Health System	9/1/2011–5/31/2014	\$101,888.00	\$35,885.00
Ashim Mitra, Ph.D.	I-Novion, Inc.	5/15/2013 – 05/14/2014	\$2,883.00	\$1,470.00
Mridul Mukherji, D.Phil.	Aplastic Anemia & MDS International Foundation	7/1/2011–6/30/2013	\$54,545.00	\$5,455.00
Mridul Mukherji, D.Phil.	US Army Medical Research	6/20/2013 – 6/19/2016	\$74,450.00	\$31,709.00
Leigh Anne Nelson, Pharm.D.	United Biosource Corp	03/07/2007 – 12/31/2009	\$1,905.00	\$495.00
Leigh Anne Nelson, Pharm.D.	Covance, Inc.	12/1/2008–12/1/2014	\$62,576.00	\$12,515.00
Leigh Anne Nelson, Pharm.D.	Covance, Inc.	7/1/2009–6/30/2012	\$15,652.00	\$3,130.00
Leigh Anne Nelson, Pharm.D.	The Feinstein Institute For Medical Research	3/1/2010–9/20/2014	\$145,850.00	\$14,585.00
Leigh Anne Nelson, Pharm.D.	The Feinstein Institute For Medical Research	9/21/2011 – 9/20/2012	\$11,647.00	
Leigh Anne Nelson, Pharm.D.	Otsuka Pharmaceutical Development & Commercialization	12/1/2011–12/1/2013	\$18,918.00	\$4,918.00
Leigh Anne Nelson, Pharm.D.	The Feinstein Institute For Medical Research	7/1/2013 – 10/31/2016	\$5,419.00	\$1,409.00
Mark Patterson, Ph.D.	University of Missouri Research Board	7/26/2011–7/26/2012	\$26,400.00	
Mark Patterson, Ph.D.	University of KS Medical Research Institute, Inc.	11/25/2013 – 05/25/2014	\$1,519.00	
Rafia Rasu, Ph.D.	University of Missouri Research Board	12/21/2009 – 12/20/2011	\$18,000.00	
Rafia Rasu, Ph.D.	Abbott Lab	9/1/2010–4/30/2012	\$40,000.00	\$20,000.00
Rafia Rasu, Ph.D.	University of KS Medical Research Institute, Inc.	05/01/2013 – 04/30/2014	\$4,192.00	
Roger Sommi, Pharm.D.	Eli Lilly and Company	07/01/2004 – 12/31/2009	\$81,496.00	\$21,189.00
Roger Sommi, Pharm.D.	Sanofi Aventis	9/1/2008–9/1/2012	\$26,825.00	\$6,975.00

<i>Principal Investigator</i>	<i>Agency</i>	<i>Active Dates</i>	<i>Direct Costs</i>	<i>Indirect Costs</i>
Roger Sommi, Pharm.D.	Janssen Scientific Affairs, LLC	7/1/2010–12/31/2013	\$14,597.00	\$3,795.00
Jianping Wang, M.D., Ph.D.	University of Missouri Research Board	9/1/2011–8/30/2013	\$63,000.00	
Elizabeth Winans, Pharm.D.	Health Research Associates, Inc.	11/1/2010–12/31/2011	\$19,712.00	\$4,088.00
BiBotti Celestin Youan, Pharm.D., Ph.D.	Epilepsy Foundation of America	10/01/2006 – 12/31/2009	\$48,750.00	
BiBotti Celestin Youan, Pharm.D., Ph.D.	NIH National Institute of Allergy And Infectious Diseases	7/22/2009–6/30/2012	\$279,500.00	\$91,834.00
BiBotti Celestin Youan, Pharm.D., Ph.D.	NIH National Institute of Allergy And Infectious Diseases	8/20/2011–6/30/2016	\$716,710.00	\$252,252.00
TOTAL			\$11,539,520.00	\$4,160,744.00

Goal III.B. Establish and maintain a national reputation as a leader in scientific innovation and translational research

Objective III.B.1. Generate patents, publications in high impact journals, and presentations at national and international meetings

Objective III.B.2. Promote professional service, such as membership on editorial boards, participation in professional organizations, service on grant review study panels, leadership in professional societies, etc.

Measures of Success:

- Peer-reviewed national/international publications regarding empirical or secondary research
- Research presentations/posters at national and international scientific meetings
- Number of faculty on NIH review panels

Peer-Reviewed National and International Journal Research and Literature Review Articles

School of Pharmacy faculty names are highlighted. The following are publications with a print date of 2013 including articles in peer-reviewed national and international journals, book chapters, and other scholarly work, such as viewpoints and brief research reports.

	School Divisions		
	Pharmaceutical Sciences (n=8)	Pharmacology and Toxicology (n=9)	Pharmacy Practice and Administration (n=39)
Peer-reviewed scientific journal articles	30	13	23
Books, book chapters	34	1	9
Other scholarly work	3	1	16
Patents	3	0	0
Presentations and posters at national/ international scientific meetings	55	16	67

Note: Some publications and posters are cross-divisional.

Abramsohn EM, Decker C, Garavalia B, **Garavalia L**, Gosch K, Krumholz HM, Spertus JA, Lindau ST. I'm not just a heart. I'm a whole person here: A qualitative study of women with MI to improve sexual outcomes. *J Am Heart Assoc*. 2013;2(4):1-11.

Ande A, McArthur C, **Kumar A, Kumar S**. Tobacco smoking effect on HIV-1 pathogenesis: Role of cytochrome P450 isozymes. *Expert Opin Drug Metab Toxicol* 2013 Nov; 9(11):1453-1464.

Auten AA, Beauchamp LN, Taylor J, **Hardinger KL**. Hidden sources of grapefruit in beverages: potential interaction with immunosuppressant medications. *Hosp Pharm* 2013;48(6):489-93.

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Hardinger KL, Schauner S, Graham MR, Garavalia LS. Admission predictors of academic dismissal for provisional and traditionally admitted students. *Curr Pharm Teaching and Learning* 2013; 5:33-38.

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Oh B, **Lee CH**. Advanced stent for the regulation of reactive oxygen species (ROS): 13th International Congress of Toxicology (ICT), Seoul, South Korea, June 30-July 4, 2013. (Abstract AF0261).

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Sommi RW, Bailey R. Challenges and Opportunities in Treating Schizophrenia. 2013 College of Psychiatric and Neurologic Pharmacists Annual Meeting, Colorado Springs, CO, April 21-24, 2013.

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Sommi RW. Regulatory/Ethical Issues. American College of Clinical Pharmacy Annual Meeting, Research Certification Program, Albuquerque, NM, October 13-16, 2013.

Sommi RW, Weiden P, Velligan D. The Pharmacist's Role in Paving the Treatment Success Pathway for Schizophrenia, invited RealCME program developed for the College of Psychiatric and Neurologic Pharmacists, December 2013.

Sommi RW. Movement Disorders: An Overview of Drug-induced Movement Disorders and Specific Rating Scales. Invited presentation at the University of Texas 25th Annual Psychiatric Pharmacotherapy Update. Austin, Texas, October 2013.

Stahnke AM, Sease J, Kerr JL, Reece S. Leading the charge: leadership opportunities within the pharmacy community of interest and beyond. AADE 13th Annual Meeting & Exhibition - American Association of Diabetes Educators. Philadelphia, PA, August 7-8, 2013. (Abstract R-60).

Stoner SC. New mechanisms, new measures in the schizophrenia treatment landscape. Satellite Symposium AMCP 2013 Nexus Meeting, San Antonio, TX, October 15-18, 2013.

Stoner SC, Ruehter VL, Graham MR. Generating interest in academic based pharmacy careers through an academic and administrative pharmacy rotation. American Association of Colleges of Pharmacy Annual Meeting, Chicago, IL, July 13-17, 2013.

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Trimble C, **Smith AJ, Pace HA.** Residency program directors' view on the value of teaching. American Society of Health-System Pharmacists Midyear Clinical Meeting and Exhibition, Orlando, FL, December 8-12, 2013. (Abstract 9-030) <http://www.ashp.org/DocLibrary/Midyear13/Resident-Poster-Abstracts.pdf>.

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<http://abstracts.aaps.org/SecureView/AAPSJournal/ger16xey4t2mr4purtw6.pdf>.

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Winans EA, Graham MR, Marken PA. Integration of health information technology into a pharmacotherapy course series: use of an academic electronic medical record. College Neurologic and Psychiatric Pharmacists, Colorado Springs, CO, April 21-24, 2013. (Abstract 136) J Pharm Pract 2013;26(3):316.

Wombwell E. What a zoo! Animal influences on emerging viral infections. Pharmacist Continuing Education, American Society of Health-System Pharmacists Midyear Clinical Meeting and Exhibition, Orlando, FL, December 8-12, 2013

Wombwell E, Caligiuri FJ. Student perceptions of live internet based student journal clubs presented synchronously to multiple distance locations. American Association of Colleges of Pharmacy Annual Meeting, Chicago, IL, July 13-17, 2013. (Abstract) Am J Pharm Ed 2013;77(5):Article 109 (page 141).

Worthington H, **Anliker L**. Assessment of education on compliance with risk evaluation and mitigation strategy guidelines for dofetilide use at an academic medical center. American Society of Health-System Pharmacists Midyear Clinical Meeting and Exhibition, Orlando, FL, December 8-12, 2013. (Abstract 2-209) <http://www.ashp.org/DocLibrary/Midyear13/Student-Poster-Abstracts.pdf>

Yaeger JS, **Snella KA, Caligiuri FJ**. Attitudes of medical students towards pharmacy students after early interprofessional collaboration. American Society of Health-System Pharmacists Midyear Clinical Meeting and Exhibition, Orlando, FL, December 8-12, 2013. (Abstract 2-210) <http://www.ashp.org/DocLibrary/Midyear13/Student-Poster-Abstracts.pdf>

Yang, X, Shah S, Wang Z, **Mitra AK**. Sustained release formulation of stereoisomeric dipeptide prodrugs of ganciclovir for the treatment of viral keratitis. 2013 AAPS Annual Meeting and Exposition, San Antonio, TX, November 10-14, 2013. (Abstract W4134) <http://abstracts.aaps.org/SecureView/AAPSJournal/fpe718uzv2t1yu2hq12b.pdf>.

Youan BB, Agrahari V. Simultaneous liquid chromatography analysis of stampidine and HI443 using experimental design. 2013 AAPS Annual Meeting and Exposition, San Antonio, TX, November 10-14, 2013. (Abstract T2279) <http://abstracts.aaps.org/SecureView/AAPSJournal/4xz6hdxeb40891wtlwng.pdf>

Youan BB, Meng J. Engineering PEO, chitosan core, shell nanofiber to enhance tenofovir encapsulation efficiency. 2013 AAPS Annual Meeting and Exposition, San Antonio, TX, November 10-14, 2013. (Abstract W4101) <http://abstracts.aaps.org/SecureView/AAPSJournal/y1d1r1uhc8j2hw839m7g.pdf>

Youan BB, Youm I. Influence of nanocapsule surface chemistry on its cytotoxicity and cellular uptake in breast cancer cells and phagocytes. 2013 AAPS Annual Meeting and Exposition, San Antonio, TX, November 10-14, 2013. (Abstract W4137) <http://abstracts.aaps.org/SecureView/AAPSJournal/9yd6d6kfrfsqofzbhtgr.pdf>

Youan BB, Ezoulin M, Agrahari V. Immunotoxicity of hyaluronic acid-based nano-microbicides to macrophage cell line raw 264.7. 2013 AAPS Annual Meeting and Exposition, San Antonio, TX, November 10-14, 2013. (Abstract W4078) <http://abstracts.aaps.org/SecureView/AAPSJournal/tpiwmzglhmjmc00g5csr.pdf>

Youan BB, Ezoulin M, Agrahari V. Mechanistic study of the biological responses of human cervicovaginal keratinocytes exposed to hyaluronic acid-based hiv nano-microbicides. 2013 AAPS Annual Meeting and Exposition, San Antonio, TX, November 10-14, 2013. (Abstract W4077) <http://abstracts.aaps.org/SecureView/AAPSJournal/zfwahu6n1b1ey3sjteqg.pdf>

Youan BB, Musazzi U, Youm I, Ezoulin M. Optimization of resveratrol nanoformulation and evaluation of its cytotoxicity on cochlear derived cells. 2013 AAPS Annual Meeting and Exposition, San Antonio, TX, November 10-14, 2013. (Abstract W4104) <http://abstracts.aaps.org/SecureView/AAPSJournal/6cucnw2pyrgxfhsvndx.pdf>

Youan BB, Musazzi U, Youm I, Gatton MA. Ferrocene-loaded nanocarrier as probe for cochlear biodistribution study. 2013 AAPS Annual Meeting and Exposition, San Antonio, TX, November 10-14,

2013. (Abstract W4103)

<http://abstracts.aaps.org/SecureView/AAPSJournal/mpdde8nzlkt1x8viyboo.pdf>

Youan BB, N'Guessan N. Analysis of human prostatic acid phosphatase activity on sodium tripolyphosphate as substrate. 2013 AAPS Annual Meeting and Exposition, San Antonio, TX, November 10-14, 2013. (Abstract T3058)

<http://abstracts.aaps.org/SecureView/AAPSJournal/bn7xmd9jin23elptnrna.pdf>

Youan BB, Soumahila C. Determination of Sugar—Concanavalin A interaction using a quartz crystal microbalance. 2013 AAPS Annual Meeting and Exposition, San Antonio, TX, November 10-14, 2013. (Abstract W4211) <http://abstracts.aaps.org/SecureView/AAPSJournal/v6gj40u7pngunyadsc04.pdf>

Patents

- Thomas Johnston
United States Patent and Trademark Office
US Patent Issued: #US 8,501,230
Inventors: Thomas P. Johnston, Ph.D., Pravakar, Mondal, Ph.D., Hemant Alur, Ph.D., James Harwick, MBA
Filed: Dec, 2, 2008
Patent Issue Date: August 6, 2013
Assignee: TriLogic Pharma, LLC
Patent Title: Self Solidifying Bioerodible Barrier Implant
- Ashim Mitra
United States Patent and Trademark Office
US Patent Issued: #US 8,551,531 B2
Inventors: Ashim K. Mitra, Gyan Prakash Mishra
Filed: April 12, 2010
Patent Issue Date: October 8, 2013
Assignee: The Curators of the University of Missouri
Patent Title: Pentablock Polymers
- United States Patent and Trademark Office
US Patent Issued: #US 2009/0092665 A1
Authors: Ashim K. Mitra, Poonam R. Velagaleti, Subramanian Natesan
Filed: October 8, 2008
Patent Issue Date: May 7, 2013
Assignee: Lux Biosciences, Inc.
Patent Title: Ophthalmic Compositions Comprising Calcineurin Inhibitors or Mtor Inhibitors

Faculty on NIH and Other Review Panels in 2013

- Anil Kumar – Member 2013/05 ZOD1 CG-1 (01), R13 Review panel March 2013; 5 grants
- Anil Kumar – Member 2013/ZMD1 RN 05R, R25, Review panel, NIMHD, April 2013; 5 grants
- Anil Kumar – Member 2013/05 ZRG1 AARR-K (04) M, Member Conflict, AIDS and AIDS Related Research, April 2013; 3 grants
- Anil Kumar – Member 2013/10 ZMD1 RN (06) 1, National Institute on Minority Health and Health Disparities Special Emphasis Panel, June 2013; 6 grants
- Anil Kumar – Member 2013/10 ZOD1-STOD-5-01, October 2013; 6 grants
- Anil Kumar – Member 2014/01 ZRG1-AARR-D-50, November 2013; 4 grants

- Anil Kumar – Member 2014/01 ZAI1-KP-A-J1, November 2013; 5 grants
- Anil Kumar – Polish Academy of Sciences; 12 grants
- Rafia Rasu – NIH grant reviewer for SBIR Health Care Delivery and Methodology Section
- Jack Fincham – Federal national grant review panels, Permanent Study Section Member, Agency for Healthcare Research and Quality (AHRQ)
- Jack Fincham – Health Services Research & Value Panel
- Jack Fincham – The United States Food and Drug Administration Non Prescription Drug Advisory Committee (NDAC); Reappointed member of this committee since 1998
- Ashim Mitra – Small Business: Sensory Technologies Panel; NIH Teleconference; Washington DC panel; Silver Springs MD panel; San Francisco panel

Awards for Research Presentations at National/International Scientific Meetings in 2013

- Rafia Rasu – 2013 Trail Blazer Award from Frontiers. The Heartland Institute for Clinical and Translational Research. Supported by an Institutional Clinical and Translational Science Award, HIH/NCATS

Editorial Boards

- Hari Bhat – *Advances in Medicine; Journal of Pharmacology and Clinical Toxicology*; Advisory Board Member, *OA Medical Hypothesis*
- Andrew Bzowycykj – *Journal of Health-System Pharmacy Residents (JHPR)*
- Jack Fincham – Associate Editor, *American Journal of Pharmaceutical Education*; *Annals of Pharmacotherapy*, Editorial Board Member; Regional Editor for North America, *The International Journal of Pharmacy Practice*; Editorial Board member, *American Health and Drug Benefits*
- Linda Garavalia – *Faculty Development Journal*
- Karen Hardinger – *Conference Papers in Medicine; Dataset Papers in Medicine; Conference Papers in Immunology; World Journal of Transplantation*
- Orisa Igwe – *SOJ Anesthesiology and Pain Management; SOJ Pharmacy and Pharmaceutical Sciences; UK Journal of Pharmaceutical and Biosciences*
- Thomas Johnston – *Journal of Pharmacy and Pharmacology; Journal of Ocular Biology, Diseases, and Informatics*
- Anil Kumar – Academic Editor, *PLOSone*; Member, *Journal of NeuroImmune Pharmacology*; Member, *Journal of NeuroVirology*
- Chi Lee – *Advances in Biomaterials* (Hindawi Publishing Corp)
- Russell Melchert – *Cardiovascular Toxicology; Toxicology in Vitro; Regenerative Medicine Research*
- Ashim Mitra – *OA Drug Design & Delivery; Journal of Biotechnology & Biomaterials; Current Eye Research; European Journal of Drug Metabolism and Pharmacokinetics; Experimental Eye Research/Elsevier Editorial System; Pharmaceutical Research Editorial Advisory Board*
- Jianping Wang – *Neuroscience Journal; World Journal of Psychiatry*

Faculty as Elected Officers in Local, Regional, and National Pharmacy or Health-Related Professional Organizations

- Andrew Bzowycykj – Secretary-Treasurer, Kappa Psi Pharmaceutical Fraternity, Kansas City Graduate Chapter; New Practitioner Officer, American Pharmacists Association, Academy of Pharmacy Practice and Management (APhA-AAPM)
- Anil Kumar – President Elect, Society of NeuroImmune Pharmacology
- Ashim Mitra – Selection Committee for American Association for Advancement of Science
- Rafia Rasu – Officer of National Organizational Affairs Committee of AMCP

- Andrew Smith – President-Elect, Missouri Society of Health-System Pharmacists; Region IV Councilor, Rho Chi Pharmacy Honors Society; Past-President, Greater Kansas City Society of Health-System Pharmacists
- Steven Stoner – AACP Council of Sections Secretary; AACP Pharmacy Practice Section in the COS - Chair Elect; AACP COS Chair of Strategic Planning Task Force, appointed; CPNP Chair of Business Development, appointed

Division of Pharmaceutical Science Faculty Mentors for Doctoral Students (Fall 2009–Spring 2014)

- Kun Cheng
 - Ashutosh Barve (enrolled)
 - Zhijin Chen (enrolled)
 - Wei Jin (enrolled)
 - Hao Liu (enrolled)
 - Rubi Mahato (enrolled)
 - Bin Qin (graduated 2012)
 - Ravi Shankar Shukla (graduated 2014)
 - Wanyi Tai (graduated 2012)
- Simon Friedman
 - Rajoshi Chaudhuri (graduated 2011)
 - Nitin Jain (graduated 2013)
 - Piyush Jain (graduated 2013)
 - Ashish Kala (enrolled)
 - Dipu Karunakaran (enrolled)
 - Bhagyesh Sarode (enrolled)
- William Gutheil
 - Sudheer Bobba (graduated 2013)
 - Sandeep Putty (graduated 2014)
 - Harika Vemula (enrolled)
- Chi Lee
 - Gayathri Acharya (graduated 2013)
 - Namita Giri (enrolled)
 - Byeongtaek Oh (enrolled)
 - BT Ohgars (enrolled)
 - Alex Owiti (enrolled)
 - Wuchen Wang (enrolled)
- Ashim Mitra
 - Vibhuti Agrahari (enrolled)
 - Megha Barot (graduated 2013)
 - Sagar Boddu (graduated 2010)
 - Kishore Cholkar (enrolled)
 - Ripal Gaudana (graduated 2011)
 - Mitran Gokulgandhi (graduated 2013)
 - Sriram Gunda (graduated 2012)
 - Yi Hao (enrolled)
 - Sudarshan Hariharan (graduated 2009)
 - Mary Joseph (enrolled)
 - Varun Kharana (enrolled)

- Deep Kwatra (graduated 2011)
- Shuanghui Luo (graduated 2010)
- Abhirup Mandal (enrolled)
- Nanda Mandava (graduated 2013)
- Mukkul Minocha (graduated 2012)
- Gyan Prakash Mishra (graduated 2011)
- Chandramouli Natarajan (enrolled)
- Ashaben Patel (graduated 2014)
- Mitesh R. Patel (enrolled)
- Sulabh Patel (graduated 2014)
- Durga Paturi (graduated 2013)
- Animikh Ray (enrolled)
- Sujay Shah (enrolled)
- Ye Sheng (enrolled)
- Viral K. Tamboli (graduated 2012)
- Ramya K. Vadlapatla (graduated 2014)
- Aswani D. Vadlapudi (graduated 2013)
- Ravi Vaishya (enrolled)
- Zhiying Wang (graduated 2013)
- Xiaoyan Yang (enrolled)
- Mridul Mukherji
 - Chaithanya Ponnaluri (graduated 2014)
 - Swami Prakash (enrolled)
 - Shayak Samaddar (enrolled)
 - Divya Teja Vavilala (graduated 2014)
- Celestin Youan
 - Vivek Agrahari (enrolled)
 - Di Mei (graduated from M.S. program in 2009)
 - Jianing Meng (enrolled)
 - Tao Zhang (graduated 2013)

Division of Pharmacology and Toxicology Faculty Mentors for Doctoral Students (2009-2013)

- Hari Bhat
 - Fatma Abdalla (enrolled)
 - Anwesha Chatterjee (enrolled)
 - Amruta Ronghe (enrolled)
- Orisa Igwe
 - Asmaa Alsousi (enrolled)
 - Chengling Mo (graduated 2013)
 - Yan Zhang (enrolled)
- Anil Kumar
 - Lu Cao (enrolled)
 - Mohit Gangwani (enrolled)
 - G. Kodakandla (enrolled)
 - Shante Jackson (enrolled)
 - Xun Liu (enrolled)
 - Ananth Nookala (enrolled)

- Ankit Shah (graduated 2013)
- Stephani Stancil (enrolled)
- Santosh Kumar
 - Anusha Ande (enrolled)
 - Jin Mengyao (graduated 2012)
- Jianping Wang
 - Nikhil Parelkar (graduated 2010)
 - Hua Zhang (graduated 2010)

Goal III.C. Maintain state-of-the-art human resources, technology and instrumentation

Objective III.C.1. Eliminate redundancies in equipment purchase and promote shared usage and responsibility for technology and instrumentation within the school and across campus

Objective III.C.2. Develop and implement a plan for sustainability of current research equipment and establish purchase policies for equipment that include plans for sustainability

Measures of Success:

- Number of full-time faculty
- Number licensed and with board certifications (percentage eligible)

Number of Full-Time Faculty

As of April 2014, the School of Pharmacy has 56 full-time faculty. Twenty-seven are clinical, non-tenure track appointees. Twenty-nine are tenure track appointees. Please see the table on page 30 for demographic details.

Faculty Certifications and Licensures (updated January 2014)

- Division of Pharmacy Practice and Administration
 - 24 out of 39 faculty (61.5%) have board certifications
 - 35 out of the 39 faculty (90%) have active pharmacist licenses in one or more states
- Division of Pharmacology and Toxicology
 - two faculty members are registered pharmacists: Orisa Igwe (Louisiana inactive; Minnesota inactive; Ohio inactive) and Russell Melchert (Arkansas active; Oklahoma active)
- Division of Pharmaceutical Sciences
 - one faculty member is a registered pharmacist: Thomas Johnston (Kansas active; Minnesota inactive)
 - Ashim Mitra holds a State License for Bureau of Narcotics and Dangerous Drugs, Missouri Department of Health; Federal License for Controlled Substances/US Drug Enforcement Administration

Strategic Initiative IV

Community Engagement: Engage external constituencies to promote and support the school and profession

Goal IV.A. Promote accomplishments of the faculty, staff, and students through appropriate outlets and constituencies in a timely manner

Objective IV.A.1. Develop and implement a multi-media marketing plan for the School of Pharmacy for local, regional, and national promotion of the work of the school

Measures of Success:

- Number of distinct times external stakeholders received communication from school or notifications of events
- Distinct print or electronic pieces developed (number and listing)
- Dissemination of school information through school and university web sites, the *Postscript*, foundation newsletter, and other promotional materials
- Recognition of faculty and student honors and accomplishments at division and school faculty meetings and other relevant venues

Development and Dissemination of Communications

The school employs a full-time staff member in the position of coordinator of communication and promotions, who serves as the resource and contact for news and information for the campus public relations department and the school as a whole. The coordinator is responsible for the dissemination of school news to campus public relations, social media, web site and appropriate news outlets and/or organizations. He also maintains and updates the School of Pharmacy's web page and Facebook site.

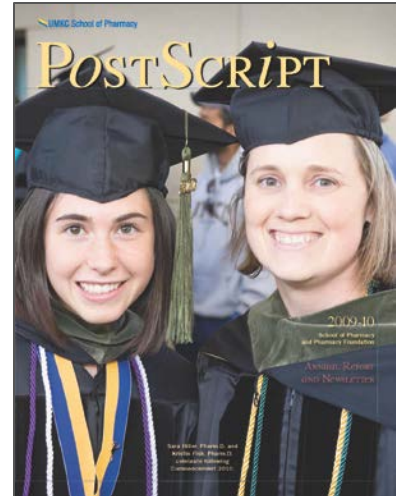
The school's web site has a page dedicated to news releases related to students, faculty, staff, alumni, awards, and upcoming events (<http://pharmacy.umkc.edu/news/>). The page includes a link for online submission of news items. School of Pharmacy news releases also appear on the web page of the UMKC office of public relations (<http://www.umkc.edu/news/>) and "UMatters," the web page for UMKC faculty and staff news (<http://info.umkc.edu/umatters/>).

The UMKC Advancement division produces a monthly e-blast newsletter known as *eRoos* with all known alumni related information from across the campus. This newsletter is sent to all UMKC alumni with a known e-mail account. The UMKC Alumni Association includes news about alumni on their web page (<http://www.umkcalumni.com>) under "Roos in the News," and "Class Notes," and in their printed magazine *Perspectives* and *eRoos*, the online alumni newsletter.

Development and dissemination of communication pieces or notification of events:

- The School of Pharmacy's director of advancement creates the *Postscript*, an annual award-winning alumni magazine mailed each year to approximately 2,800 school alumni and over 200 other friends. The magazine includes feature articles on students, faculty and alumni. The *Postscript* received the District VI Gold Institutional Award for Excellence in Communications at the 2012 conference of the Council for Advancement and Support of Education (CASE), the professional organization that helps

direct and support alumni, fundraising and communications pieces for colleges and universities nation-wide. The *Postscript* also received the CASE bronze award in 2008, gold award in 2009, and silver award in 2011.



- Invitations or communications were sent via e-mail for the following pharmacy events and programs:
 - All university alumni are invited to the UMKC Alumni Awards luncheon. The invitation is produced and mailed by main campus each year.
 - The Pharmacy Foundation golf tournament player brochure is e-mailed to over 1,300 people – alumni, past players, constituent group members, School of Pharmacy faculty and staff.
 - Springfield alumni receptions were held during the summers of 2011 and 2012. Over 180 invitations were e-mailed to Springfield area alumni.
 - A Kansas City alumni wine tasting event is held each year. Invitations are e-mailed to over 1,500 alumni each year.
 - The pharmacy alumni reunion weekend brochure is e-mailed to board members and friends of the School of Pharmacy each fall.
 - The Tiger-Roo Tailgate tradition began in the fall of 2011. Each fall, approximately 900 e-mail invitations are sent to area alumni to attend a tailgate party prior to a Mizzou home football game, typically in November.
- The *UMKC Perspectives* magazine is available online and is mailed to over 3,000 pharmacy alumni each year.
- Alumni Association, Pharmacy Foundation and Dean's Advisory Council members also receive regular communications for relevant specific events such as student appreciation days, wellness fairs, the Health Sciences Student Research Summit, commencement, career fair, and the Pharmacy Foundation holiday party.

Recognition of Faculty and Staff Honors and Accomplishments

- At the monthly School of Pharmacy faculty meetings, the dean announces the names of faculty and students who have received awards, grant funding, and promotions. Written reports from the student organizations and the Alumni Association/Pharmacy Foundation are collected and distributed to the faculty via e-mail prior to the meetings. The Division of Pharmacy Practice and Administration includes announcements of faculty accomplishments and student achievements at their division meetings. The dean also sends e-mail announcements of faculty, staff and students awards and accomplishments to the entire School of Pharmacy, and when appropriate, the director of advancement forwards them to members of the Pharmacy Foundation and Pharmacy Alumni Association.
- The school's web site has a "Faculty Research Interests" page, which includes a list of each faculty member's research interests and a link to his or her personal web page. The page has a keyword search feature, which aids viewers in locating experts on different topics.
- Each spring, the school announces the recipients of the Teacher of the Year awards. For these awards, students in each professional class, years one through four, are given the opportunity to select one of the teachers who taught their class in a required course during the academic

year. They are asked to judge each teacher based on his/her teaching ability and approach inside and outside the classroom, and his/her impact on the students' future careers. The anonymous balloting is conducted via Blackboard surveys. A first-place winner and runner-up are announced for each class, and they are invited to be honored by faculty, staff, students and alumni at the school's Achievers of Excellence celebration the following fall. Their names are printed in the awards program, their names are announced by the dean, and they each receive an award certificate. The Rho Chi honor society also recognizes a teacher of the year.

- In the School of Pharmacy, all faculty and staff are asked to nominate staff members for the campus staff awards, and the top two in each category voted on by faculty and staff. This final vote bestows the award to the individual on behalf of the School of Pharmacy; this individual is then forwarded to the campus committee as the school's nominee for the campus award. The award winners are awarded a plaque and their names are added to a school plaque in the second-floor hallway of the Health Sciences Building.

Recognition of Student Honors and Accomplishments

- School of Pharmacy scholarship winners are recognized at the Achievers of Excellence awards program each fall. The reception for students and their families, scholarship donors, faculty, staff and alumni is sponsored by the Pharmacy Foundation. Each student has his or her photograph taken with the scholarship donor, if possible, and copies are sent to the donors. A brief biography submitted by each scholarship recipient is printed in the awards program. Over 250 people typically attend the event.
- Each spring, award recipients in the doctor of pharmacy graduating class are recognized during the commencement ceremony and during the graduation banquets. Awards are given for superior academic achievement, leadership, and service. Sponsors of the awards are invited to attend the ceremony and be recognized.
- At the end of each semester, the names of full-time doctor of pharmacy students whose term grade point average is 3.5 or higher are placed on the dean's list. To be eligible for the dean's list, baccalaureate pharmacy students must rank in the upper 10 percent of their class for the term specified. When possible, the UMKC public relations office sends news releases to the students' hometown newspapers.
- The UMKC Women's Council presents their annual Graduate Assistance Awards at a luncheon in the spring. Ph.D. and doctor of pharmacy students are among the women recognized for their research projects. In 2011, one Pharm.D. and five Ph.D. students received awards. Ten Ph.D. students received awards in 2012. Eleven Ph.D. and one Pharm.D. student received awards in 2013.
- At the UMKC Bloch School's annual Regnier Family Foundations/Bank of Blue Valley Venture Creation Challenge, three doctor of pharmacy students received an Award with Distinction for their project, PharXm Natural Supplements.
- The students in APhA-ASP produce a monthly newsletter, *The Script*, featuring student profiles, student organization updates, articles by students, and a column by the dean. The newsletter is distributed via e-mail to School of Pharmacy students, faculty and staff, and posted on the "Current Students" page of the school's web site.
- The three academic divisions each have glass display cases in their hallways, where they post information on faculty and student activities and accomplishments.

School of Pharmacy Student Government/APhA-ASP Awards List (updated 4/1/14)

- National Awards
 - APhA-ASP Class AA 2nd Runner-Up National Chapter Achievement Award for 2012-13, awarded March 2014
 - APhA-ASP Top 5 “Back the PAC” professional advocacy campaign, 2013, awarded March 2014
 - APhA-ASP Top 10 PharmFlix video competition, 2013, awarded March 2014
 - APhA-ASP Class AA National Chapter Achievement Award Winner for 2011-12, awarded March 2013
 - APhA-ASP National Chapter of the Year for 2010-2011, awarded March 2012
 - APhA-ASP Class A National Chapter Achievement Award Winner for 2009-10, awarded March 2011
 - APhA-ASP Top 10 PharmFlix video competition, 2011
- Regional Awards
 - APhA-ASP Region 6 Winner, Operation Self-Care, October 2013
 - APhA-ASP Region 6 Winner, Operation Immunization, October 2013
 - APhA-ASP Region 6 Winner, Generation Rx, March 2013
 - APhA-ASP Region 6 Winner, Operation Heart, November 2012
 - APhA-ASP Region 6 Winner, Heartburn Awareness Challenge, March 2010
- Local Awards
 - UMKC Student Government Association Most Outstanding Student Organization of the Year, awarded to APhA-ASP, April 23, 2013
 - UMKC Student Government Association Most Active Organization in Community Service, awarded to APhA-ASP, April 2012
 - UMKC Student Government Association Student Organization of the Year, awarded to APhA-ASP, April 2012
 - UMKC Student Government Association Council of the Year, awarded to APhA-ASP, April 2011
 - UMKC Student Government Association Student Organization of the Year, awarded to APhA-ASP, April 2010



Examples of 2013 Student Awards and Honors

- At the 2013 UMKC Health Sciences Student Research Summit, pharmacy students received best poster awards in the following categories:
 - Pharmaceutical Sciences/Pharmacology and Toxicology: Piyush Jain, Mitan Gokulgandhi, Zhiying Wang
 - Pharmacy Practice and Administration: Melissa Colley, Andrew Schramm
- Sheena Merwine was a national awardee at the One to One Patient Counseling Recognition Program at APhA.
- 2013 Rho Chi Regional (Region 6) Chapter of the Year
- Kappa Psi – UMKC SGA Award for Most Active Organization in Community Service
- Karen Goolsby was re-elected as a member of the AMCP National Membership Committee for the 2013-2014 year.
- Ekeni Livingston received a national Kappa Epsilon award, the Linda Rogers Memorial Award.

- Naaseha Amir, APhA-ASP chapter president, was recognized as the Most Outstanding Student Organization Leader by the UMKC Student Government Association.
- Lucas Hill received a travel award from ACCP to attend the 2012 annual meeting.
- Naaseha Amir and Alexander "Brooks" Crisswell progressed to the Top 10 in the national ASHP Clinical Skills Competition.
- Dustin Webber participated in a competitive summer internship at Express Scripts during the summer
- Namita Giri, Chi Lee's graduate student, received a first place Poster Award during the 45th Annual Pharmaceutics Graduate Student Research Meeting (PGSRM) at the University of Iowa.

Examples of Student Engagement in Organizations for 2013

- Current Pharm.D. Student Organizations
 - Academy of Managed Care Pharmacy – 29 members
 - American Pharmacists Association Academy of Student Pharmacists – 384 members
 - Kappa Epsilon – 47 members
 - Kappa Psi – 94 members
 - National Community Pharmacists Association – 41 members
 - Public Health Organization – 57 members
 - Phi Lambda Sigma – 21 members
 - Rho Chi – 80 members
 - Student Society of Health-System Pharmacists – 99 members
 - Student College of Clinical Pharmacy – 28 members
- Current Ph.D. Student Organizations
 - American Association of Pharmaceutical Scientists – 48 members
 - Pharmaceutical Sciences Graduate Student Association – 48 members
- Examples of Community Service
 - Public awareness campaign on proper antibiotic usage
 - DEA National Drug Take-Back Day
 - Poison prevention
 - Medicare Part D signup sessions
 - Prepare hygiene kits for a women's shelter
 - Fall blood drive
- Examples of Patient Care
 - Operation Immunization, Diabetes, Heart and Self Care
 - ROOT 4 Health
 - Healthy for Life: the University of Missouri's faculty and staff wellness program
 - Missouri State Fair health screenings
 - Sojourner Clinic
 - International medical mission to Cuzco, Peru
- Philanthropy
 - CRUSH Hunger Event
 - 25th Annual AIDS Walk
 - Walk MS 2013
 - RxFactor
 - Susan G. Komen Race for the Cure
 - Harvesters
 - Ronald McDonald House

- Bowling for Breast Cancer
- Marine Toys for Tots
- Vial of Life
- Adopt-a-Family
- Volley for Charity
- Leadership, Clinical and Professional Skills Development
 - Clinical pearls discussions
 - Professional development seminars
 - Research skills seminars
 - Clinical skills competition
 - Attendance at national meetings
 - Residency roundtable
 - Strategies for effective networking
 - National Patient Counseling Competition
 - Advocacy
 - Compounding competition
 - Financial planning
 - Mock interview day
- Examples of Social Events
 - Baseball games, movie nights, game and trivia nights, formals, roller skating, holiday parties, laser tag, welcome picnics and dinners

Goal IV.B. Sustain strong collaboration with community organizations and health care providers to impact the well-being of patients

Measures of Success:

- IPPE and APPE placements across the community and state
- Preceptor volunteer hours
- Awards and other evidence of outstanding community engagement
- Faculty placements and service in practice sites across the community and state

Doctor of Pharmacy Experiential Learning Placements

The following Introductory Pharmacy Practice Experiences (IPPE) are experiential courses within the doctor of pharmacy curriculum which require placement at an external practice site:

- 7378P: Introduction to Community Pharmacy (first offered in 2009)
 - Provides 80 contact hours during the summer between the P2 and P3 years
- 7379P: Introduction to Health Systems Pharmacy (first offered in 2010)
 - Provides 80 contact hours during the summer between the P2 and P3 years
- 7406P: Health Assessment & General Medicine I
 - Provides 160 contact hours during the student's P3 longitudinal year

These experiences emphasize application of knowledge gained in didactic coursework at the student's level in the curriculum. The goal of IPPE is to establish a solid practice foundation on which students will continually build as they progress through the doctor of pharmacy curriculum. Successful completion of IPPE courses provides 8 hours of academic credit and 320 internship hours for the Missouri Board of

Pharmacy. The following table provides a summary of the number of sites and preceptors hosting students for required IPPE rotations annually.

Introductory Pharmacy Practice Experiences (IPPE)				
Year	Number of Students	Total # of Rotations	Total # of Preceptors	Unique Training Sites
2013	128	383	119	90
2012	128	384	117	94
2011	125	375	137	114
2010	110	330	138	118
2009	113	226	64	57

Doctor of Pharmacy Advanced Pharmacy Practice Experiences (APPE) is a series of rotations designed to complete the student's education through supervised participation in pharmacy practice in a variety of community and institutional settings. Candidates are required to complete eight pharmacy practice experiences and are expected to learn by assuming the pharmaceutical care responsibilities of a pharmacist under the direct supervision of a preceptor. The purpose of APPEs is to apply the facts, information, and concepts gained in didactic coursework to "real-life" situations. APPEs use an integrative approach to learning that includes experience and interactions between students and preceptors in various health care settings to turn didactic knowledge into practical knowledge. Successful completion of APPE courses provides 36 hours of academic credit and 1440 internship hours for the Missouri Board of Pharmacy.

APPE Courses Include:

- Pharmacy 7407P: General Medicine II
- Pharmacy 7409P: Health Systems
- Pharmacy 7410P: General Medicine III
- Pharmacy 7412P: Advanced Community Pharmacy Practice
- Pharmacy 7418P: Elective I
- Pharmacy 7419P: General Medicine IV
- Pharmacy 7420P: Elective II
- Pharmacy 7421P: Elective III

The following table provides a summary of the number of sites and preceptors hosting students for required APPE rotations annually.

Advanced Pharmacy Practice Experiences (APPE)				
Year	Number of Students	Total # of Rotations	Total # of Preceptors	Unique Training Sites
2013-14	125	1000	328	201
2012-13	125	1000	307	175
2011-12	107	856	288	175
2010-11	112	896	253	159
2009-10	112	896	206	159

Volunteer Hours Provided by Preceptors

- July 1, 2008–June 30, 2009: 66,881.5
- July 1, 2009–June 30, 2010: 108,480
- July 1, 2010–June 30, 2011: 118,080
- July 1, 2011–June 30, 2012: 100,400
- July 1, 2012–June 30, 2013: 58,200 (7,840 IPPE; 50,720 APPE)

Academic Service Learning

- Academic Service Learning is a professional elective course in which students are assigned to either the Jackson County Free Health Clinic/Shared Care in Independence, Missouri or the MedZou community health clinic in Columbia, Missouri. The primary focus is on health education. Students participate in direct patient care activities and are supervised by licensed pharmacists. In 2011, 14 students participated in the Jackson County Free Health Clinic, and 10 students participated in the MedZou clinic. In 2012, nine students participated at the MedZou Clinic. In 2013, five students participated in the MedZou clinic in fall semester.
- The Jackson County Free Health Clinic received in-kind medications donations from pharmaceutical companies that resulted in \$1,528,896 direct savings to patients.

Community Engagement Awards

- The school received the inaugural 2008-2009 AACP Student Engaged Community Service Award for the patient assistance program at the Jackson County Free Health Clinic, and was a finalist for the inaugural Transformative Community Service Award.
- The school received 2009-2010 Transformative Community Service Award for its “engagement within cities and regions to improve public health.”
- The school received the 2010-2011 Student Community Engaged Service Award for the UMKC Health Sciences Wellness Fair.
- The School of Pharmacy received the 2012 APhA Immunization Champion Award in the category of “Partnerships with Other Healthcare Providers and Public Health.”
- At the 2012 annual meeting of the American Pharmacists Association, the UMKC chapter of APhA-ASP received the Chapter of the Year Award, out of 127 schools and colleges of pharmacy. Other recognitions included:
- Kappa Psi was awarded the “Most Active Community Service” performed by an SGA organization at the SGA Awards Banquet.

Residencies

- The school offers the following practice-based residencies:
 - three PGY-1 community pharmacy residencies, in affiliation with Balls Food Stores, Red Cross Pharmacy, and Walgreens Pharmacy
 - a PGY-1 residency in public health, at the Kansas City Care Clinic
- The school also provides faculty support to the following residency programs:
 - Center for Behavioral Medicine (2)
 - Truman Medical Center (4)
 - Truman Medical Center, Lakewood (1)
 - University Hospital at MU (3)

Clinical Practice Locations and Number of Faculty Placed

Within the Division of Pharmacy Practice and Administration there are 31 clinical faculty who are located in 18 practice sites in the Kansas City metropolitan area and Columbia.

- Center for Behavioral Medicine, Kansas City (1)
- Veterans Administration Hospital, Kansas City (1)
- Veterans Administration Hospital, Columbia (1)
- University of Missouri Hospital, Columbia (3)
- Woodrail and Fairview Ambulatory Clinics, Columbia (2)
- Truman Medical Center Hospital Hill, Kansas City (3)
- Truman Medical Center Lakewood, Kansas City (1)
- Truman Medical Center Psychiatry, Kansas City (1)
- Social and Administrative Health Sciences, Kansas City (5)
- Drug Information Center, Kansas City (3)
- Red Cross Community Pharmacy, Kansas City (1)
- Community Pharmacy Residency Programs, Kansas City (1)
- St. Luke's Multispecialty Clinic, Kansas City (1)
- Centerpoint Medical Center (1)
- Jackson County Shared Care (1)
- Research Medical Center (1)
- Trinity-Goppert Clinics at Research (2)
- KC Care (2)

Examples of Student Organization Community Engagement

- APhA-ASP: At patient care projects including university health fairs, state fairs, and farmers markets and fall festivals, students have screened for diabetes, hypertension, cholesterol, heartburn and risk of falls, and provided immunizations. Students on each campus also worked with local law enforcement and environmental agencies on "National Take-Back Day" to safely dispose of expired and unused medications.
- APhA-ASP members participated in the AIDS Walk.
- APhA-ASP members competed and attended the Rx Factor to support Kappa Epsilon.
- AMCP students are working with the Kansas City Antibiotic Resistance Task Force to educate the community about antibiotic resistance.
- Kappa Epsilon sponsored a blood drive for the Community Blood Center.
- Kappa Epsilon participates in the medical assistance program at the Shared Care Free Clinic of Jackson County.
- Kappa Epsilon members gave seven poison prevention presentations at area schools. Approximately 120 children were educated on the dangers of household chemicals. A poison prevention board was on display at two different sites to help educate parents about household chemicals.
- Kappa Epsilon members organized a Relay For Life team in May.
- Kappa Psi members held their 11th annual Volley For Charity tournament, with proceeds shared between the American Cancer Society and a fellow classmate who is currently battling cancer.



- Kappa Psi hosted a spring formal social event and recognized senior members with a small social in May.
- In Columbia, students assist at MedZou, a student-operated community medical clinic that provides free primary health care.
- Public Health Organization continued volunteering at the Sojourner Clinic, a free health clinic conducted at Unity Temple by students from the UMKC School of Medicine in downtown Kansas City.
- PHO students made hygiene kits for a women's shelter at the Grand Avenue Temple.

Other Community Engagement

Healthy for Life: T.E. Atkins UM Wellness Program is the University of Missouri's established employee wellness program which spans all four system locations and serves all benefit-eligible employees. In 2010, the School of Pharmacy established a collaboration with this program to conduct health screenings and flu shot clinics annually for employees. Our P3 IPPE students are actively involved in providing services at these events, allowing them to utilize therapeutic knowledge and employ many direct patient care skills. Students screen patients seeking immunization, obtain consent, and administer flu shots. Biometric screenings are also performed, where students measure blood pressure, perform a finger-stick to obtain a blood sample for blood glucose and lipid panel readings, and obtain patient height and weight to calculate body mass index. This collaboration engages students and faculty and allows us to demonstrate the knowledge, skills, and impact that pharmacists can have on community health and wellness. The table below summarizes our involvement with Healthy for Life.

New for 2013 in Kansas City, we have been able to expand our services to collaborate with Children's Mercy Hospital where we participated in their "Family and Friends" program and administered 262 flu shots in the fall.

Healthy For Life Summary Information	2010-2011		2011-2012		2012-2013		2013-2014	
	KC	MU	KC	MU	KC	MU	KC	MU
Flu Shots Administered			431	322	515	652	375	682
Biometric Screenings & Education			353	570	377	202	*	*
Students	109		124		128		124	
Faculty	12		14		14		8	

SOP immunization protocol was established in 2011

*Data is not in yet, as we are still conducting screenings through the spring

In the Healthy for Life program, students and faculty administered approximately 20% more flu shots in KC compared to 2012. In Columbia, the 2013 numbers were almost double the 2012 numbers (from 322 in 2012 to 652 in 2013).



Goal IV.C. Increase the financial support from external constituents

Objective IV.C.1. Establish endowed chairs

Objective IV.C.2. Increase the number and size of scholarships and gifts to the school

Measures of Success:

- Funding of four new endowed chairs
- Number of new scholarships added each year with an annual increase in overall scholarship dollars each year
- Dollars raised by school per year
- Total number of donors (including organizations) each year

Endowed Chairs

The School of Pharmacy's capital campaign goal and project list includes funds requested for four endowed positions. These chair goals include:

- Division of Pharmacology and Toxicology
 - \$1.5 million of private funds for an endowed chair in Geriatric Pharmacology (priority level—immediate)
 - In 2010, a donor pledged a planned estate gift of \$2.7 million for an endowed chair in geriatric pharmacotherapy
 - \$750,000-\$1.5 million for an endowed chair or professorship (priority level—future)
- Division of Pharmaceutical Sciences
 - \$750,000-\$1.5 million for an endowed chair for an endowed chair in Drug Design and Delivery (priority level—future)
- Division of Pharmacy Practice and Administration
 - \$750,000-\$1.5 million for an endowed chair or professorship (priority level—future)

Scholarships

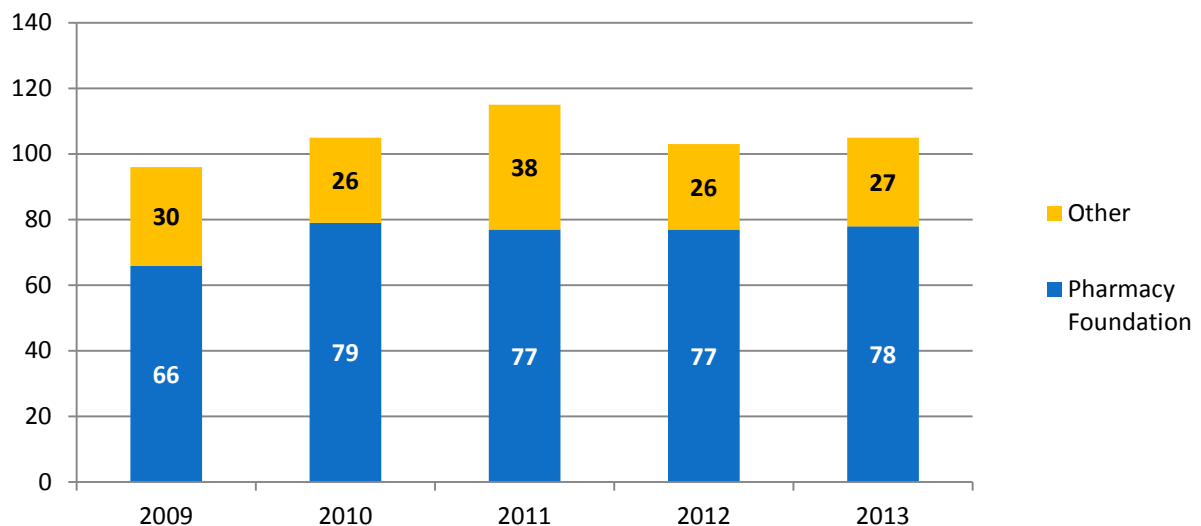
The capital campaign goal and project list includes scholarship support, with goals to raise:

- \$500,000 of private funds for the creation of new scholarships specifically for the doctor of pharmacy program and students at the Springfield site (priority level—immediate)
 - To date, no funds have been raised toward this goal
- Pharmacy Foundation
 - \$500,000 of private funds for the creation of new scholarships to support the doctor of pharmacy program (priority level—ongoing, both immediate and future)
 - This goal has now been reached, with over \$600,000 raised in 2009-2012
 - \$100,000 of private funds for the creation of new scholarships for the support of students in the school's Ph.D. programs (priority level—immediate)
 - To date, no funds have been raised toward this goal
 - \$1 million of private funds for an endowment to provide emergency loans and support for pharmacy students (priority level—immediate)
- In 2010, a donor pledged a planned estate gift of \$300,000 to endow a student emergency fund, which will provide short-term loans to students who need assistance in meeting an urgent personal financial need.

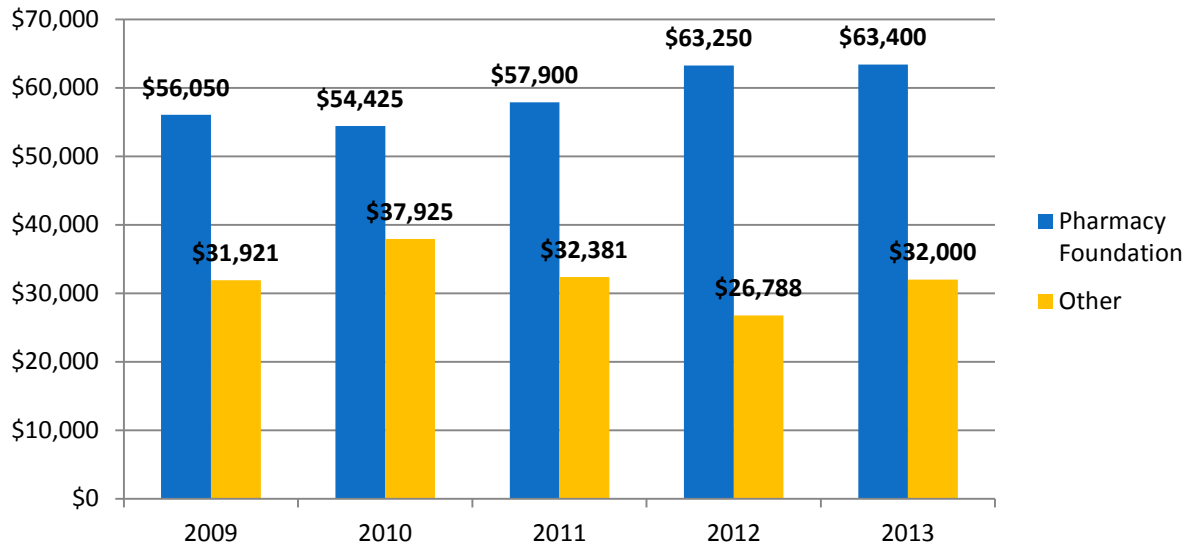
Progress

- Pharmacy Foundation
 - New scholarships:
 - Fall 2009: three new annual scholarships
 - Fall 2010: four new endowed scholarships; four new annual scholarships
 - Fall 2011: two new endowed scholarships; six new annual scholarships
 - Fall 2012: one new endowed scholarship; one new annual scholarship
 - Fall 2013: one new endowed scholarship; five new annual scholarships; one one-time scholarship
- Scholarships awarded:
 - In fall 2013, the Scholarship and Awards Committee awarded 93 scholarships totaling \$81,600.
 - Three students received renewals of their \$2,000 scholarships, totaling \$6,000.
 - A \$2,000 scholarship was awarded to a recipient selected by the scholarship's donor.
 - A graduate student scholarship of \$1,000 was awarded to a recipient selected by the scholarship's donor.
 - The Kappa Psi Pharmaceutical Fraternity awarded one \$500 scholarship.
 - The Office of Student Affairs awarded two minority student scholarships to five first-year students, totaling \$4,300.

Numbers of scholarships awarded:



Amounts awarded for fall scholarships:



Scholarships Awarded 2009-2013

- Pharmacy Foundation scholarships:
 - Grace Hoelzel Albano
 - Fred Angle
 - Elizabeth Ballew Drug Information Center
 - Baptist-Trinity Lutheran Legacy Foundation
 - Wright V. & Gladys A. Bartholomew
 - Mary and Francis "Bud" Bisceglia Memorial
 - Dennis R. Bond
 - Shelton Bower Memorial
 - Lewis Bratt
 - Donald R. Brown
 - Burch and Sabo
 - Isaac and Lakesha Butler–You Can Do All Things
 - Century Club Clinical
 - Century Club Hospital
 - Class of 1975
 - Class of 1982
 - Class of 2011
 - Class of 2013
 - D & H Prescription Drug Store
 - Adele and Glenn Eberhart
 - Leslie Eisenbrandt
 - Erickson Family
 - Mary and Tim Euler Student Mentor Award
 - Fendler Family
 - Kathy McClary Fife Memorial
 - Greater Kansas City Society of Health-System Pharmacists Book

- Spencer S. Glenn Memorial
- Glenski Family
- Good Neighbor Pharmacy Community
- Travis and Maqual Graham
- Donald W. Grove, Sr.
- George Guastello
- George Guastello/Albers Medical Pharmacy
- Harvey H. Haynes
- Judith Hemberger Graduate
- Bruce J. "Bud" Huber Memorial
- Richard and Paula Johnson Pharmacy Graduate Student
- Kappa Epsilon Community Services
- Deborah and Paul Kavanaugh
- Robert C. Lanman Graduate Pharmacology
- Lindman-Gershman
- Monica E. Manasseh
- Mitzi McGee Memorial
- Wes McIntire
- J. Leo McMahon
- Joe McNerney Pharmacy Leadership
- Stephanie and Russell Melchert
- Missouri Pharmacy Foundation
- Missouri Small Community Practice
- Tim Mitchell Medical
- Timothy G. Mitchell
- Mid-Missouri Society of Health-System Pharmacists
- National Association of Chain Drug Stores
- Jim Newman Memorial
- Kit Ngoc Nguyen
- Norman Family Community Pharmacy
- Noel O. Nuessle
- RAN Institute
- NCPA/William E. Osborn
- Optum Rx (Prescription Solutions)
- PBA Health/TrueCare Pharmacy
- Pharmacists Mutual
- Robert W. Piepho
- Plattsburg Clinic Pharmacy
- Powers Family
- Proctor/Boyd Family
- Red Cross Pharmacy
- Erik Roehrs
- Thomas D. Ross Memorial Graduate
- Toni Sena Memorial
- Joseph G. Shalinsky
- Leo Shalinsky
- William & Carole Sitland
- Andrea and Dale Smith

- Smock Family
- Spalitto Pharmacy
- Anthony J. Spalitto, Sr.
- Bruce and Shirley Stocker
- David A. Strauch
- Harry N. Tishk
- Fred Tonnies
- Kathleen Tonnies
- Phyllis Vaughn
- Mathew W. "Bill" Wilson
- Marcus and Missy Wilson Family
- Lawrence G. Windmoeller/Mid-Missouri Society of Health-System Pharmacists
- Robert L. Wolf Memorial
- Other School of Pharmacy scholarships:
 - CVS/Pharmacy Community
 - Lewis D. DeClerck Memorial
 - Kilgore's Medical Pharmacy
 - Rocky and Laurie Levell
 - Alexander & Mary Margolis & Bernard A. Margolis Perpetual Memorial
 - Nyberg Pharmacy Independent Pharmacy
 - Stanley M. Reinhaus Family Foundation
 - Morris R. Shlensky
 - Evelyn Suffecool
 - Suffecool Plank
 - Walgreens Diversity
 - Wal-Mart

Fundraising Numbers

The campus advancement office reports fundraising data on a fiscal year basis. Fundraising for the School of Pharmacy for 2011-2013 is presented in the following table. The school fundraising for 2013 was more than 2011 and 2012 combined.

	Funds raised	# of donors
Fiscal year 2011 (July 1, 2010-June 30, 2011)	\$248,375.49	444
Fiscal year 2012 (July 1, 2011-June 30, 2012)	\$181,102.02	398
Fiscal year 2013 (July 1, 2012-June 30, 2013)	\$513,502.16	413

The UMKC campus is currently engaged in a capital campaign running from 2009-2015. From December 1, 2009 through June 30, 2013, the School of Pharmacy has raised \$6,872,718.47 in gifts and pledges for the recording time period of the campaign.

In February 2013, the School of Pharmacy partnered with the School of Nursing and Health Studies to hire a person for a new position, director of major gifts. The position is divided 50/50 between the two schools. One of the director's charges was to raise funds from the master's and Ph.D. alumni to support the School of Pharmacy's bridge grants to researchers and those efforts are ongoing.

Goal IV.D. Broaden alumni engagement in school events, planning, and educational endeavors

Objective IV.D.1. Establish, sustain, and document regular channels of communication between alumni and the School of Pharmacy

Objective IV.D.2. Provide and document regular opportunities for alumni to connect with current students through involvement with student organizations and other student activities (e.g. invite alumni to provide guest lectures in courses, serve on school committees, serve as preceptors, participate in school planning activities, etc.)

Objective IV.D.3. Recruit recent graduates to regularly participate in alumni events

Measures of Success:

- Total number of alumni (number updated each year)
- University rank for alumni engagement
- Percentage of alumni who participate in school and university events
- Number of actively involved alumni in alumni association events and breadth of participation across alumni
- Percentage of alumni current e-mail addresses obtained
- Number of alumni preceptors (at least one student per year)
- Regular channels of communication are sustained
- Alumni participation on school committees and in school events

- Alumni numbers:
 - As of July 2013, the campus advancement office records show that the School of Pharmacy has 4,252 presumed living alumni members; 3,355 are listed as “potentially contactable,” 2,822 of them have a mailable address, 1,769 have a known phone number and 1,709 have a known e-mail address.
- University rank for alumni engagement:
 - The School of Pharmacy has ranked number one on campus for alumni donor participation in fiscal years 2008-2013. Alumni donor participation percentages have been tracked since fiscal year 2006.
 - The school has ranked number one for volunteer engagement for the past six fiscal years (FY07-FY13), contributing 55% of all volunteer service hours recorded by the entire UMKC campus in 2012-13. Volunteer engagement has been tracked on this campus since fiscal year 2007.
- Number of alumni preceptors:
 - 464 pharmacy professionals are on the 2011-2012 list of preceptors for the Division of Pharmacy Practice and Administration, and a large percentage of them are alumni.
 - in 2008-2009, the school reported that preceptors provided 66,881.5 volunteer hours
 - in 2009-2010, the school reported that preceptors provided 108,480 volunteer hours
 - in 2010-2011, the school reported that preceptors provided 118,080 volunteer hours
 - in 2011-2012, the school reported that preceptors provided 100,400 volunteer hours
 - in 2012-2013, the school reported that preceptors provided 119,760 volunteer hours

- Channels of communication:
 - The School of Pharmacy’s director of advancement creates the *Postscript* magazine, our alumni magazine and newsletter that is mailed to approximately 3,000 pharmacy alumni and 200 other friends of the school. In addition to feature articles on students, faculty and alumni, the publication includes news from students, faculty, staff and alumni, and listings of faculty activities in the areas of service, awards, honors, presentations, contracts and grants.
 - The director of advancement sends e-mail announcements of news, awards and events to members of the Pharmacy Foundation and Pharmacy Alumni Association, and distributes written reports at meetings of the foundation, alumni association, and Dean’s Advisory Council.
 - Alumni and students participate on the school’s Facebook pages, and several alumni classes have their own pages.
 - The school’s web site features a regularly updated news section that offers the school’s alumni and constituents a convenient way to receive updates on the activities and achievements of the school. The site also features a calendar where alumni and constituents can find out about upcoming events at the school.
- Alumni participation on school committees and in school events:
 - Alumni service on school committees
 - in 2009-2010, four alumni served on: Admissions and Academic Requirements (1); Curriculum (1); Scholarship and Financial Aid (2)
 - in 2010-2011, eight alumni served on: Admissions and Academic Requirements (1); Curriculum (1); Scholarship and Financial Aid (1); Future Trends Task Force (5)
 - in 2011-2012, six alumni served on: Admissions and Academic Requirements (1); Curriculum (1); Scholarship and Financial Aid (2); Task Force on Diversity (1); Research Advisory Council (1)
 - in 2012-2013, three alumni served on: Admissions (1); Curriculum (1); Task Force on Diversity (1)
 - in 2013-2014, three alumni served on: Admissions (1); Curriculum (1); Task Force on Diversity (1)
 - Dean’s Advisory Council: 29 of the 34 members of the Dean’s Advisory Council are School of Pharmacy alumni. The council invites students to their spring and fall meetings, to meet one-on-one with the members.
 - Pharmacy Foundation: 25 of the 32 members of the Pharmacy Foundation Board of Directors are School of Pharmacy alumni. Board members have opportunities to interact with students at the annual golf tournament, the Achievers of Excellence program, and other school activities.
 - Pharmacy Alumni Association: 14 alumni serve on the Pharmacy Alumni Association.
 - In June 2013, Alumni Association board members assisted pharmacy students with signing thank-you cards to all donors to the School of Pharmacy from fall 2012.
 - In November, the Pharmacy Alumni Association hosted the third annual “Tiger-Roo Tailgate” event in Columbia prior to the MU vs. Tennessee football game. Over 70 people participated in the event to celebrate the school’s alumni, students, faculty, staff and friends affiliated with the pharmacy program on the Columbia campus.
 - Several alumni serve as guest speakers in pharmacy courses such as Professional Skills Development and Grand Rounds.
 - APhA-ASP invites alumni to speak at some of their events, and supervise them at health screenings.
 - Alumni attend Kappa Psi’s annual Volley for Charity event, and Kappa Epsilon’s Bowling for Breast Cancer fundraiser.

- In addition to preceptors, the school reported the following volunteer hours for events and meetings of the Pharmacy Alumni Association, Pharmacy Foundation, and Dean’s Advisory Council:
 - 2008-2009: 192 hours
 - 2009-2010: 176 hours
 - 2010-2011: 377 hours
 - 2011-2012: 150 hours
 - 2012-2013: 323 hours
- The Pharmacy Alumni Association sponsors annual student appreciation days in both Kansas City and Columbia.
- In 2012-13, 22 alumni participated in interviewing applicants to the doctor of pharmacy program.
- Pharmacy alumni serve as speakers each year at the Achievers of Excellence program.
- In spring 2009, 2010, 2011, 2012, and 2013 alumni served as the keynote speakers for the School of Pharmacy commencement ceremonies, and a representative from the Pharmacy Alumni Association also speaks each year.

Recruit Recent Graduates to Regularly Participate in Alumni Events

- Membership in both the UMKC Alumni Association and the Pharmacy Alumni Association is automatic, and members have not been charged dues since 2007.
- All alumni with current contact information are invited to participate in activities such as the annual Pharmacy Foundation golf tournament, the annual alumni wine tasting event, and the annual alumni reunion weekend (events include a Friday night social, Saturday continuing education classes, and Saturday night alumni awards dinner).
- Receptions for alumni in the Springfield area were held in July 2011 and 2012.

School of Pharmacy
Health Sciences Building
2464 Charlotte Street
Kansas City, Missouri 64108-2718

<http://pharmacy.umkc.edu>

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Please direct any questions to:
Linda S. Garavalia, Ph.D., Associate Dean for Academic Affairs,
garavalia@umkc.edu