

# PHARMACY MATTERS

FALL 2011



## Inside:

- 2 Dean's farewell message
- 10 Botanical estrogens put under the microscope
- 12 Drug-discovery core created
- 14 Student wins prestigious NSF fellowship
- 19 Distinguished alumni recognized
- 22 Scholarships awarded, created
- 24 Annual financial report



Pharmacy Matters salutes Barbara G. Wells, who is retiring as dean Dec. 31.

## Dean leaves impressive legacy

By Barbara Lago

After a decade at the helm of the School of Pharmacy, Barbara Wells is stepping down as dean to spend more time with her family, lead a healthier life and pursue some long-delayed interests.

Wells, 66, has been putting in long days since becoming UM's pharmacy dean in summer 2001, and her workweek includes Saturdays and Sundays.

"It's been all consuming, but I have no regrets," she said. "I'm honored to have had the opportunity to work with some incredible people to help the school realize its potential."

On second thought, she said she does have one regret: "My grandchildren are growing up without me," she said.

Wells admitted she has only herself to blame for the pace she's kept.

"There are so many opportunities to advance the school and to support its faculty and

students," she said, "and there's so little time to get it all done."

There's no doubt she's driven and that the bar she set for herself, her colleagues and her school is high. For example, while serving as dean, she has remained co-editor of two therapeutics textbooks and a therapeutics handbook. She plans to continue these activities for the next few years.

Under her leadership, the pharmacy school's physical facilities have been greatly improved and expanded, its curriculum has been revised, its research enterprise nearly doubled, and all its programs have become more nationally and internationally prominent.

On the Oxford campus, a 250-seat auditorium has been constructed between Faser Hall and the Thad Cochran Research Center, Faser has been expanded and partially renovated, the Maynard Quimby Medicinal Plant Garden has



*To recognize her service, to honor her loyalty and to share in her vision for the School of Pharmacy, we are asking that you consider making a gift this holiday season to Dean Wells' endowed scholarship or the pharmacy school's general fund to continue her legacy.*

*continued on page 4*

## Dean's farewell message

I hope you enjoy perusing this issue of Pharmacy Matters, which is chock-full of news about our people and programs. This is an extraordinarily busy time for us. In addition to our usual teaching, research, clinical practice and professional service activities, we are finalizing our self-study for our reaccreditation site visit. As you read this newsletter, the self-study document will likely already be in the hands of our accreditors.

Preparing a self-study for reaccreditation of a professional degree program requires a tremendous amount of data gathering, evaluation, reflection and planning. It is a very broad-based effort, with numerous faculty, staff, students, preceptors and alumni involved. Such self-studies are essential not only to the accreditation process but also to our planning and continued growth and momentum.

As you may have already heard, I am retiring Dec. 31, after more than 10 years as your School of Pharmacy dean. I am delighted that a highly experienced leader and pharmacy educator, Dr. David D. Allen, will take the school's helm Jan. 1. David is just what we need to take our school to the next level of excellence. He is a well-known and capable leader, educator and researcher (see story on page 28). I have every confidence in his ability and commitment to lead the School of Pharmacy to even greater achievement and national recognition.

Conducting the self-study and contemplating my retirement led me to engage in some serious reflection about what we have achieved together. As I read the story our creative staff put together about our past 10-plus years, I can hardly believe how much we accomplished. This record is enormously satisfying but would not have been possible without our faculty, staff, students, alumni, businesses and research partners, who came together to work toward advancing our vision and mission.

As I call my deanship "a wrap," the most important thing that I can say to all of you is THANK YOU! To our school's leadership team, I say thank you for your hard work, vision and wise counsel. To our faculty and research scientists, thank you for your cutting-edge expertise and commitment to students (undergraduate,

professional and graduate), for creating new knowledge and for advancing pharmacy and our disciplines.

To our students, I say thank you for assuming responsibility for lifelong learning and for becoming change agents committed to providing patient-centered care and advancing our profession. Thank you also to our university, pharmacy school and foundation staff members. I appreciate (more than you'll ever know!) your long hours, attention to detail, flexibility and commitment to advancing the mission and values of this great institution.

I owe a special thank you to our many partners and collaborators in research, teaching and patient care. By sharing our vision, goals and allegiance to excellence, you logarithmically expanded what we could have accomplished independently. I also owe a special thank you to our alumni. I treasure your deep devotion to our school, our students and our profession, as well as your generosity and enthusiasm for continuous improvement. In particular, I want to thank members of the Pharmacy Alumni Chapter board of directors and Dean's Advisory Committee for your wise counsel, constructive criticism, constant vigilance and support.

Thanks to all for giving me a chance to succeed at the Ole Miss School of Pharmacy and for working with me to ensure that success. And thanks for the positive way that you have worked with me and for your many kindnesses to Richard and me.

As Richard and I move into the next phase of our lives—with more time for family, travel, leisure and each other—we will remain a part of the Ole Miss School of Pharmacy family, so we are not saying goodbye. Instead, Richard and I will continue to support you whenever and however we can. And as you continue your journey to advance the pharmacy school, better serve students and improve the care of patients, we will be cheering you on from the sidelines.

Best wishes, and much love to all of our friends and colleagues,



Barbara G. Wells

**Dr. Barbara G. Wells**  
*Dean*

**Dr. Marvin C. Wilson**  
*Associate Dean for Academic  
and Student Affairs*

**Dr. Leigh Ann Ross**  
*Associate Dean for Clinical Affairs  
and Chair of Pharmacy Practice*

**Dr. Charles D. Hufford**  
*Associate Dean for Research  
and Graduate Programs*

**Ms. Beverly M. Butts**  
*Assistant Dean of Administration*

**Dr. Stephen J. Cutler**  
*Chair of Medicinal Chemistry*

**Dr. Michael A. Repka**  
*Chair of Pharmaceutics*

**Dr. Daneel Ferreira**  
*Chair of Pharmacognosy*

**Dr. Anthony J. Verlangieri**  
*Interim Chair of Pharmacology*

**Dr. Donna S. West-Strum**  
*Chair of Pharmacy Administration*

**Dr. Benjamin F. Banahan III**  
*Director of Center for Pharmaceutical  
Marketing and Management*

**Dr. Larry A. Walker**  
*Director of National Center for  
Natural Products Research*







*Legacy* continued from page 1

been moved and expanded, and more than \$31 million is in place to build a 96,000-square-foot addition to the National Center for Natural Products Research complex.

At the university's Medical Center in Jackson, a new building for pharmacy practice's education and research programs will be ready for occupancy this winter, and its clinical pharmacy program has become recognized as one of the country's best.

One hundred percent of the school's May graduates passed the national licensure exam on their first attempt, and, for two consecutive years, its faculty garnered more extramural funding for research and construction than any other pharmacy school in the country.

"We have been able to grow our academic and research programs, and the infrastructure that supports them," Wells said. "We've had a lot of successes."

Although she said she derives immense satisfaction from those successes, she won't take all the credit.

"These aren't 'my' accomplishments. These are 'our' accomplishments," she said, referring to a long list of people who helped make them possible.

When asked who helped the most, Wells quickly rattled off a list: "Our associate deans—Charlie Hufford, Leigh Ann Ross, Marvin Wilson—and [NCNPR director] Larry Walker, Vice Chancellor [Alice] Clark and Provost [Morris] Stocks.

"And, of course, [Chancellor] Dan Jones, who made the site for our new building in Jackson available to us. He could have put us on the outskirts of the Medical Center complex, but he provided us with a wonderful location that puts our faculty and students in the heart of



*Clinical instructor Jane Cross works with a diabetic patient in the Mississippi Delta.*

the academic corridor, where they need to be to be successful."

Her list also includes "a great faculty, which played such a key role in external funding," "a wonderful staff, which keeps everything operating smoothly" and "our incredibly generous alumni."

Wells said she believes her role as dean was to help others see the school's potential, as well as their own, and to help them do great things by creating the appropriate culture and providing the resources necessary for success. Because of dwindling state appropriations, providing those resources has been difficult and

required extraordinary creativity from Wells and others, including university administrators and pharmacy's department chairs.

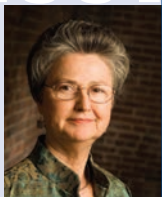
With her leadership, Chancellor Jones said, "Our School of Pharmacy is fulfilling all parts of its mission in a good spirit and with limited resources," and "It excels in education, research and service."

That's due, in part, because "she created an atmosphere of excellence and high expectations," he said. "She understands and values relationships. She is appreciated and admired by faculty, students, alumni, policymakers and leaders in her profession."

# 2001

**JUNE 2001**

Barbara Wells becomes dean



**JULY 2001**

Alice Clark becomes UM's vice chancellor for research



**OCTOBER 2001**

Estate of Thelma H. Cerniglia provides \$325,000 gift

**DECEMBER 2001**

FDA partners with NCNPR to study dietary supplements



# 2002

**OCTOBER 2002**

All May Doctor of Pharmacy graduates pass the NAPLEX exam

**FEBRUARY 2003**

AACP ranks the pharmacy school No. 1 for total extramural funding

# 2003

Pharmacy's associate deans agree with the chancellor. Her relationships, they said, were key to what they believe is Wells' most important achievement as dean: securing funds for the building in Jackson and getting it constructed. It took two federal grants, plus a sizeable pot of gifts to "Promises to Keep," the pharmacy school's first capital campaign.

The building "was a big issue for accreditation," said Hufford, associate dean for research. "It was the creative skills of the Office of Research [and Sponsored Programs], Leigh Ann Ross and Dean Wells that got it done. The reaccreditation team is coming in March, and if we didn't have that building, we wouldn't comply with accreditation standards."

Another success is accumulating resources for the auditorium and NCNPR addition, which involved funding from the National Institutes of Health, Food and Drug Administration, and the Health Resources and Services Administration.

"Working with three federal agencies is always tricky," Hufford said.

Clark, UM's chief research officer, said she is impressed by just how much the pharmacy school has increased its capacity for leading research and scholarship.

"In the 10 years since [Wells] became dean, the physical facilities of the School of Pharmacy have increased tremendously," Clark said. "This increase in facilities, and only a modest increase in the total number of faculty and staff, has led to a significant increase in the productivity and impact of the research enterprise."

From her perspective, the past decade was one in which the School of Pharmacy made "a major jump" in its national rankings for total sponsored funding.

## Pharmacy dean receives career achievement award

Barbara G. Wells is the inaugural recipient of the College of Psychiatric and Neurologic Pharmacists' Career Achievement Award.

The award was presented to the UM School of Pharmacy dean at CPNP's recent annual meeting in Phoenix.

"In a sense, [the award] is a validation of my work," Wells said. "It means a tremendous amount to me to be recognized by my peers, not just in one aspect of my career but for overall accomplishments in practice, research, teaching and leadership."

The CPNP Career Achievement Award was created to recognize an individual who has made outstanding contributions to the areas of practice, education, research, professional service and/or leadership in psychiatric or neurologic pharmacy over the course of his or her career.

Wells' expertise is in the areas of psychiatric pharmacotherapy and women's health. Much of her work also deals with leadership in the health professions, pharmacy education and in advocacy for the profession. Her research has examined drug-drug interactions of psychotropic medications and the clinical management of depression, anxiety disorders and schizophrenia.

Wells, who once directed a residency program in psychiatric pharmacy practice and a fellowship program in psychiatric pharmacotherapy, was a founding member of the CPNP in 1998. She has been dean, a professor and executive director of the Research Institute of Pharmaceutical Sciences at the UM pharmacy school since 2001.

Since then, she received the 2006 Robert K. Chalmers Distinguished Pharmacy Educator Award from the American Association of Colleges of Pharmacy. Named for a distinguished educator and former AACP president, the award was presented to Wells for her impact on pharmacy education and the pharmacy profession.

Wells was also named a Distinguished Practitioner in the National Academies of Practice in Pharmacy in 2004 for her career contributions. NAP is made up of academies in 10 fields: dentistry, medicine, nursing, optometry, osteopathic medicine, pharmacy, podiatric medicine, psychology, social work and veterinary medicine.

She has authored or co-authored more than 85 peer-reviewed articles and book chapters, and is a co-editor of commonly used textbooks in pharmacy education: *Pharmacotherapy: A Pathophysiologic Approach* (six editions), *Pharmacotherapy Principles and Practice* (two editions) and the *Pharmacotherapy Handbook* (six editions).

Wells has also served as president of the American College of Clinical Pharmacy, as well as AACP, and served on the U.S. Food and Drug Administration's Psychopharmacologic Drugs Advisory Committee and the National Institutes of Health's Advisory Committee on Research on Women's Health. ■



**JULY 2003**

Dean Wells becomes president of AACP

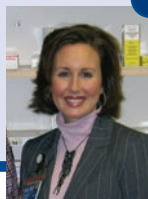


**DECEMBER 2003**

Pharmaceutical Care Clinic is recognized among nation's best

**JANUARY 2004**

Jillian James is first UM pharmacy student to serve as Speaker of the House of Delegates of Phi Lambda Sigma



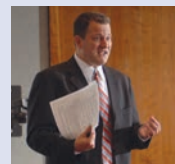
**MARCH 2004**

NCNPR partners with Medicines for Malaria Venture



**SEPTEMBER 2005**

The Distinguished Teaching Scholars Program is established; NCNPR celebrates its 10th anniversary



**2005**

**2004**



2006

## FEBRUARY 2006

The Division of Pharmacy Professional Development is created



## MARCH 2006

Pre-pharmacy major Adel ElSohly wins coveted Goldwater Scholarship

## SEPTEMBER 2006

School receives \$11 million grant for new Center of Biomedical Research Excellence



## FEBRUARY 2007

UM's Marijuana research program is featured on HDNet's "Dan Rather Reports"

2007



## MARCH 2007

Terry Lynn Zepponi is the first UM pharmacy student to receive the Kappa Epsilon Foundation's Zada M. Cooper Scholarship

2008

"This was possible because of commitments the dean's office made to major initiatives and programs that were ultimately successful, such as the NIH COBRE grant and funding for construction of the second phase of the NCNPR," she said. "In the decade she has been dean, total sponsored funding increased from \$16 million annually to \$29 million."

Clark, who holds an F.A.P. Barnard Distinguished Professorship in pharmacognosy, also had some thoughts as to why Wells has been an effective dean.

"She is always calm, thoughtful, thoroughly prepared and fair," she said. "This combination ensures any challenge is met with well-considered solutions, and any opportunity is vigorously pursued with a clear plan of action."

One of those challenges, Clark said, was maintaining high standards in research, teaching, clinical care and service.

"This combination ensures any challenge is met with well-considered solutions, and any opportunity is vigorously pursued with a clear plan of action."

VICE CHANCELLOR ALICE CLARK

"This is difficult to do under ordinary circumstances; doing this during the construction or upgrade of facilities is extremely difficult," she said. "Through Dean Wells' leadership, the school's administration, faculty and staff set priorities and developed practical solutions to meet the challenges."

Hufford and Wilson, associate dean for academic and student affairs, both said they believe Wells' second-greatest achievement is the school's Distinguished Teaching Scholars Program (see story on page 11).

"That was 100 percent her doing," Wilson said.

"Until that program was created, we had significant awards for research but few for exceptional teaching," Hufford added.

NCNPR's Walker said that another of Wells' achievements is "elevation of the status of our clinical pharmacy program to one of the very top in the country."

"She took a very strong pharmacy practice program and—with her great vision and leadership in pharmacy education—brought it to new heights," he said. "She is so well respected in leadership circles in pharmacy, and she has helped so many

faculty realize their own potential in those circles. She also has a really remarkable work ethic, and I think her general aura of professional leadership and recognition around the country helped lift this school's recognition to the top."

Wells has been successful, Wilson said, because she is "persistent about pursuing an agenda of importance to her. She's a good listener and can get other horses pulling in the right direction. She's good at building consensus and galvanizing the troops."

Hufford said, "She's a 'detail' person, but she's also a good 'people' person. She is able to share her vision with faculty, alumni and others and get them to help."

Ross, pharmacy's associate dean for clinical affairs, described Wells' leadership abilities as "extraordinary" but links her successes to another part of her character.

"She is the ultimate mentor," said Ross, who helped take pharmacy practice's clinical program to the top. "She inspires people and makes you want to do your best. She is such a strong leader and a good person. She cares about people—faculty, students, everyone—and she is driven to help people be successful."

It doesn't matter whether those people are associated with Ole Miss, or not, Ross said. "Within the profession, national pharmacy organizations and other pharmacy schools, she is known for her leadership and mentoring of young people, residents, junior faculty and other deans."

For example, Ross said, as president of the American Association of Colleges of Pharmacy,



*Because of its extensive repository of reference samples, wide-ranging research and boundless expertise in herbal products, the National Center for Natural Products Research has become an FDA Center for Excellence in Botanicals.*

**JULY 2008**

In conjunction with its 100th anniversary, the pharmacy school publicly launches "Promises to Keep," its first capital campaign; the Delta Pharmacy Patient Care Management Project begins

**AUGUST 2008**

250-Seat Centennial Auditorium is completed

**OCTOBER 2008**

Noel Wilkin becomes UM's associate provost

**2009****JUNE 2009**

NCNPR's dietary supplement work receives FDA commissioner's Special Citation

Wells helped create the Academic Leadership Fellows Program (a.k.a. ALFP), which recently graduated its seventh class.

"I was among those fortunate to participate in this yearlong program, and I'm one of many who benefited professionally from the leadership abilities I developed as a fellow. Not only did I have the opportunity to participate but I also had Dean Wells as my mentor, a responsibility she took very seriously.

"Dean Wells invests time in each and every member of our faculty, especially those in leadership positions. She mentors, advises and encourages all to develop the skills they need to be successful."

Christopher McCurdy, associate professor of medicinal chemistry and pharmacology, also is an ALFP graduate, as is Noel Wilkin, UM's associate provost; Stephen Cutler, professor and chair of medicinal chemistry; Donna West-Strum, chair and associate professor of pharmacy administration; and some 200 other researchers, educators and administrators scattered across the country.

Wells "has done tremendous things for me as a mentor," McCurdy said. "She took me under her wing and ... shared the challenges she was facing as dean and how she turned them into opportunities. She talked candidly, which conveyed a lot of confidence and trust. I learned things from her that will help me for the rest of my life."

Although there is a stigma attached to Mississippi in many areas, McCurdy said, "It's not that way with pharmaceutical research and education. Dean Wells has had a lot to do with that."

It's common in academia for faculty and alumni to criticize executive-level decisions, but there seems to be little of that directed at Wells. In fact, an annual survey conducted by AACP indicates that 92 percent of her faculty approve of and support her efforts.

"She's more patient than a lot of deans with faculty," Wilson said. "She identifies opportunities and presents them to individuals with initiative. Plus, she wants everyone to get the recognition they deserve."



*Leigh Ann Ross (left), Barbara Wells and Dan Jones break ground for the new pharmacy building on the university's Medical Center campus.*

And that, Hufford said, is something at which she's very good.

"Whenever someone accomplishes something great, [he or she gets] an email, memo or one-on-one visit. When those messages come from the dean, it really matters to people."

The approval rating from her faculty "is one of the most rewarding things that has happened to me as dean," Wells said. "It's one of the things I feel really good about."

Contemplating such successes is bittersweet, because it also recalls defeats. Among them are

## TOP 10 Accomplishments & National Recognitions

- UM's Doctor of Pharmacy graduates' pass rate on the national licensure exam is one of the highest in the nation. Three of the past six years, 100 percent of May Pharm.D. graduates passed the NAPLEX on their first attempt.
- The American Association of Colleges of Pharmacy ranks the School of Pharmacy No. 1 among pharmacy schools for total extramural funding.
- The School of Pharmacy received AACP's Transformative Community Service Award for its service efforts, including the work of the Delta Pharmacy Patient Care Management Project, which is improving health care services to patients in the Mississippi Delta.
- The U.S. Food and Drug Administration chose the National Center for Natural Products Research as a Center of Excellence for research on botanical dietary supplements.
- The NIDA Marijuana Project, which began in 1968, is the longest-running contract in National Institutes of Health history.
- The pharmacy school received a \$13.9 million C06 grant—the school's largest competitive grant ever—from NIH for construction of the \$31.7 million, 96,000-square-foot addition (a.k.a. Phase II) to NCNPR.
- When Phase II is complete, the School of Pharmacy will have 357,291 square feet devoted to its academic and research pursuits. The total includes the school's new 29,500-square-foot building on the UM Medical Center campus in Jackson.
- The pharmacy school became one of NIH's Centers of Biomedical Research Excellence when NIH provided \$11 million to the school to create the Center of Research Excellence in Natural Products Neuroscience.
- UM's School of Pharmacy is one of only three schools to have more than one faculty member serve as president of AACP.
- Extramural funding nearly doubled in the past 10 years. It now stands at nearly \$30 million annually.



the failure to finish the renovation of Faser Hall and multiple cuts to appropriations for the Research Institute of Pharmaceutical Sciences, which was established and funded by the state Legislature nearly a half-century ago.

"It has taken so many hits year after year," Wells said. "Because of the incredible productivity and creativity of its people, it has been able to garner increasing amounts of external funding, but external funding can only go so far. All successful research enterprises require an appropriate balance between stable funding they can count on and extramural funding. Stable recurring funding is essential to support infrastructure, key leaders, and the most creative and productive scientists."

She said she is also disappointed that groundbreaking for NCNPR's addition and dedication of the new building in Jackson won't take place until after she retires.

Asked what her goals would be if she were to serve another 10 years as dean, Wells said, "Finish the Faser remodel, restore RIPS's state funding, grow the faculty, continue to refine the curriculum, grow research programs by strengthening the culture and infrastructure, and support faculty development as leaders, educators and researchers."

Historically, she said she hopes people remember the past decade as a period in which she helped build the pharmacy school's infrastructure and brought it national recognition through her leadership in associations such as AACP and the American College of Clinical Pharmacy.

"Fifty years ago, Charles Hartman was our dean," Hufford said. "When we look back at his deanship, we remember that he created RIPS and secured the basis for its funding. So I think 50 years from now, if anyone looks back at her deanship, her legacy will be our new auditorium, the building in Jackson and the addition to the Thad Cochran Research Center."

While Wilson would add "enhanced acceptance of the School of Pharmacy as an integral component of the Medical Center," Cutler said he believes Wells' greatest legacy is the people who are "transforming pharmaceutical education across the country."



*Students and faculty will be moving into the new pharmacy building at the university Medical Center campus in January.*

"Dean Wells is why I came here," Cutler said. "I was familiar with her through six or seven people who told me she had mentored them, and they encouraged me to accept the Ole Miss offer. I have never been disappointed with my decision."

"Through her interactions with me, she has transformed not only how I think but also how I operate, how I manage people and my service to my discipline."

She's done the same thing for scores of others, Cutler said.

"She has transformed lives and pharmacy education across the country," he said, referring to ALFP's 200 graduates trained for leadership. "They include leaders in national pharmacy organizations and schools of pharmacy, who call her whenever they're struggling with issues."

Because of that program, "she has left a giant genetic footprint on pharmacy education in this country," Cutler said. "Of all the people in pharmacy education today, she is one of only a handful who carries the greatest esteem and influence."

Brian Crabtree, professor of pharmacy practice and AACP's president, said Wells' genetic footprint may grow even larger over the next decade, when a second fellows program begins producing graduates.

"Presidents come and go, but not everyone leaves a legacy," Crabtree said. "[Wells] did. Her vision for the association led to the ALFP program, which has been immensely successful. As an outgrowth of that legacy, AACP is launching an Academic Research Fellows Program to take bright research scholars to the next level, so her legacy lives on."

Stocks, UM's vice chancellor for academic affairs as well as provost, put it this way:

"Throughout her career, Dean Wells has applied her wealth of experience as a clinician, educator, researcher and administrator to improving pharmacy education, pharmacy practice and patient care. Her body of work is of immense benefit to faculty, students and patients everywhere."

"We're proud of what she has accomplished during her career, and we're prouder still that someone with her professional standing, exemplary character and remarkable skill has provided vision and leadership for our School of Pharmacy."

Travis King (PharmD 10) of Jackson had similar feelings when he saw Wells' name on his textbooks.

"It gave me a great sense of pride that 'our dean' was a lead author on my textbooks," said King, an infectious disease resident at UMMC who hopes to one day join the ranks of academia.

"She is a sterling example of excellence in pharmacy, and you strive to be like her. If I could have one-third the career she has had, I'd be happy."

As Wells' retirement looms large, there is some uncertainty among the ranks, as is typical of all transitions in leadership. True

#### AUGUST 2009

School joins the National Patient Safety and Clinical Pharmacy Services Collaborative

## 2010

#### FEBRUARY 2010

Construction begins on new \$9.7 million pharmacy building on UM Medical Center campus



to her nature, here is what she said about the transition.

"Dr. Allen is an experienced and nationally known pharmacy educator and pharmaceutical scientist. He is committed to continuing the forward momentum of the School of Pharmacy in all mission areas and to improving patient care in our state. Our faculty, staff and students are looking forward to his inspired leadership."

On Jan. 2, the day Ole Miss employees return to work after the Christmas break, Wells won't have to get dressed and scoot to work for the first time in nearly 45 years.

"That day, I won't wake up as early as I used to, nor will I wake up to that rude noise from my alarm clock," she said, grinning. "It may end up at the bottom of Pickwick Lake," where she and her husband, Richard, have a houseboat and hope to begin spending much more time.

"I will probably work some that day on the three books that I co-edit, but I am going to enjoy the phenomenal flexibility and freedom of retirement.

"I'm going to go for a walk that day, and I'm going to play the piano. I'm also going to read

some that day, and I'm going to talk to our children and grandchildren on the phone."














The Wells' son, Richard Jr., 43, is a partner with KPMG in Atlanta. He and his wife, Stephanie, a systems analyst, have two children, Thomas, 8, and Matthew, 5. The Wells' daughter, Heather, 41, is a speech and language therapist in Bentonville, Ark. She and her husband, Patrick, an attorney, have two children, Ashley Grace, 9, and Liam, 7.

Wells' first day of retirement sounds like it is going to be chock-full of activities, just like all her workdays have been. But it does reflect a far better balance of work and play.

She will be missed by many associated with the pharmacy school, including James Pittman Jr. of Madison, who worked with Wells while president of the Pharmacy Alumni Chapter.

"Because of her passion for the job, her dedication to the School of Pharmacy and her ability to develop and surround herself with the right people, she has made the school's programs a national leader," Pittman said. "At the same time, she never lost her focus on the school's primary mission, which is teaching students to become pharmacists." ■

## SNAPSHOT: A Decade of Growth

	2001	2011	Percent Increase	
Fall Enrollment	424	953*	124.8	
Minority Enrollment	21.7%	26.7 %	23	
Operating Budget	\$27.7 million	\$44.6 million	61.0	
Payroll	\$11.2 million	\$18.0 million	60.7	
Extramural Funding	\$16 million	\$29 million	81.1	
Private Gifts	\$312,137	\$393,212	26	
Number of Endowments	32	60	87.5	
Value of Endowments	\$4 million	\$8.4 million	110	
Scholarships Awarded	\$157,900	\$320,750**	103.1	
Full-time Faculty	69	73	5.8	
Full-time Staff	114	125	9.6	
Preceptors	138	270	95.6	
Facilities	210,448 sq. ft.	261,291 sq. ft.	24.1	

\* Includes 355 pre-pharmacy students now enrolled in the School of Pharmacy, rather than in the College of Liberal Arts, as they were in 2001, plus an expanded early-entry enrollment \*\* Awarded for 2011-2012 academic year

### APRIL 2010

NCNPR hosts its 10th International Conference on the Science of Botanicals; UM receives \$13.9 million grant from NIH for construction of the \$31.7 million Phase II addition to NCNPR



### JULY 2011

Brian Crabtree becomes president of AACP



### OCTOBER 2011

UM selects David Allen to succeed Barbara Wells as dean; the last new building is completed at the relocated Maynard Quimby Medicinal Plant Garden



### DECEMBER 2011

Estate of Madeline Sciacca provides \$400,000 gift; pharmacy building on UM Medical Center campus is completed

# 2011

## News

## UM part of multi-institutional study of botanical estrogens

Millions of women seeking relief from the discomforts of menopause—hot flashes, insomnia, weight gain, mood swings, irritability, bone loss, impaired memory and loss of libido—are taking plant-based estrogens (aka phytoestrogens), soy and other products to replace the estrogen their ovaries stopped making.

Although some phytoestrogens may have effects similar to hormone replacement therapy, their safety and effectiveness are not clear and haven't been adequately studied, said UM researcher Ikhlas Khan, who is participating in a multi-institutional investigation into the many unknowns associated with the use of botanical estrogens.

The Botanical Research Center at the University of Illinois received an \$8 million commitment from the National Institutes of Health for the five-year research initiative. Also participating in the investigation are researchers at Oregon State University and the U.S. Food and Drug Administration's National Center for Toxicological Research.

The project's lead investigator is Illinois Botanical Research Center Director William Helferich, a human nutrition and food science professor who also holds a professorship in diet, women's health and aging. Khan, assistant director of the UM School of Pharmacy's National Center for Natural Products Research and director of its FDA Center for Excellence in Botanicals, is authenticating and standardizing botanical samples used in the investigation.

"The NIH requires this be done before material is used in animal or human studies," said Khan, who, along with NCNPR Senior Research Scientist Troy J. Smillie, are receiving grants of more than \$160,000 a year for their work.

Khan and Smillie are focusing on soy, licorice root, wild yam and dong quai, alleged to reduce the occurrence of hot flashes, improve sex drive, lower the incidence or prevent the recurrence of breast cancer and enhance mental function. Components of these plants are often extracted and sold in concentrated form in capsules, teas and other preparations, but research into their efficacy and safety has yielded mixed results.



*Ikhlas Khan, director of NCNPR's FDA Center for Excellence in Botanicals, will authenticate and standardize samples used in the multi-institutional investigation of botanical estrogens.*

While some plants or extracts appear to produce desired results, others have no effect. More disturbing are studies indicating that certain phytoestrogens may actually induce cognitive problems, increase the recurrence of breast cancer and interfere with breast cancer treatment.

"The types of botanical estrogens being marketed are getting more and more potent," Helferich said. "We want to see if they really are effective or detrimental."

With the NIH funding, three projects led by Illinois faculty are exploring whether and how phytoestrogens from soy, licorice root, dong quai and wild yam affect various tissues and influence gene expression or other cellular processes, growth and metastasis of breast cancer tumors, bone loss and cognitive decline.

Authenticating and standardizing the botanicals used in the three studies and analyzing how the body uses the compounds are crucial to their success. That's where Khan and Daniel Doerge of the FDA's National Center for Toxicological Research enter the picture.

Doerge is identifying and quantifying the samples used in the study and determining appropriate dosing, Khan said, "while we are authenticating the plant material, isolating the chemicals within and developing the analytical tools to 'fingerprint' the plants and genetically profile them."

Khan, Smillie and others at NCNPR's FDA Center for Excellence in Botanicals have been acquiring samples of wild yam, dong quai and licorice root from India and China. They are also growing the plants in UM's medicinal plant garden. The goal is to correlate the biological activities of the samples to the species of plants containing the greatest concentration of their active ingredients.

"The natural products center at Ole Miss is one of the finest in the country, and the caliber of its scientists, such as Ikhlas and Troy, is outstanding," Helferich said. "They were instrumental in putting together a strong application that appealed to the NIH, and they are key to this grant's success." ■



## News

## Distinguished Teaching Scholars named

Four pharmacy faculty members have been recognized through the Distinguished Teaching Scholars Program, which rewards faculty for teaching excellence, dedication to student achievement and research on effective teaching and learning.

Named Thelma H. Cerniglia Distinguished Teaching Scholars are Brian Crabtree, professor of pharmacy practice and clinical associate professor of psychiatry, and Gary Theilman, associate professor of pharmacy practice and vice chair for practice, education and student affairs. Both work at the UM Medical Center in Jackson.

John Rimoldi, professor of medicinal chemistry, was named to his second three-year term as Galen Order Distinguished Teaching Scholar, and David McCaffrey, professor of pharmacy administration, is the Dean's Advisory Committee Distinguished Teaching Scholar.

The awards, which were established in 2005 and are funded through gifts from the estate of Thelma H. Cerniglia and members of the Galen Order and Dean's Advisory Committee, include an annual stipend for three years.

"The recipients of these awards are passionate about teaching and student learning, as well as overall student welfare and assessment," said

pharmacy Dean Barbara G. Wells. "Other faculty members desiring to improve in these areas often look to them for mentoring and inspiration."

Crabtree maintains a clinical pharmacy practice at the Mississippi State Hospital at Whitfield, where he offers a rotation in psychiatric pharmacy for professional year three and four students. He was influential in developing PY3 students' problem-based learning initiative and chairs pharmacy's curricular assessment committee. He received the school's 2007 Faculty Service Award and 2000 Faculty Innovations in Teaching Award. He is president of the American Association of Colleges of Pharmacy, which works to strengthen pharmacy education nationwide.

Theilman received the pharmacy school's Faculty Innovations in Teaching Award in 2007 and 2001. He has worked with members of his department to implement processes for collaborative grading of student assignments and collection of data to improve teaching. He has worked with the UM School of Medicine to develop an interdisciplinary public health course that allowed pharmacy and medical students to learn from each other. He also is the long-time chair of the pharmacy school's Curriculum Committee.

Theilman and Crabtree have both published papers about the structure and evaluation of the problem-based learning process, which the pharmacy school adopted more than a decade ago to enhance learning and retention. The process, which for years has been used in U.S. medical schools, places more responsibility for learning on students and is being implemented in other pharmacy schools across the country.

Rimoldi teaches pharmacogenetics and pharmacoinmunology to PY1 students. With UM pharmacy colleagues, he is working on a medicinal chemistry textbook and a group of new drugs for treating obesity, and with colleagues at the University of Tennessee Health Science Center, he is working to translate novel lab findings into new drugs for treating cancer and heart disease. His awards include the university's 2002 Faculty Achievement Award, which recognizes overall outstanding career performance. He also received the pharmacy school's 2002 Faculty Service Award and was named 2011 Teacher of the Year by pharmacy's PY1 class.

McCaffrey teaches social and behavioral aspects of pharmacy practice for PY1 students. He is a member of the Foreign Pharmacy Graduate Equivalency Examination's Review Committee, which develops the test pharmacy graduates from other countries must pass before they sit for the North American Pharmacist Licensure Exam. He is also an adviser to the National Association of Boards of Pharmacy's Curriculum Outcomes Assessment program, which helps determine whether other universities' Pharm.D. curricula are meeting desired outcomes. He received the pharmacy school's Faculty Service Award in 2000 and 2010 and the PY1 class' 2010 Teacher of the Year award.

"These four scholars exemplify the quality that all of our faculty strive for," said Marvin C. Wilson, associate dean for academic and student affairs. "Our faculty members are dedicated to improving their skills and abilities in their classrooms, laboratories or at patients' bedsides. Their quest for continuous improvement is a hallmark of our school and has resulted in its national recognition as one of the premier pharmacy schools in the country." ■



Distinguished Teaching Scholars John Rimoldi (left), Gary Theilman and David McCaffrey

## News

# Natural Products Center, Cancer Institute form new drug-discovery core

A new UM partnership is designed to take drug discovery from the lab bench to clinical trials.

Focusing on cancer-fighting drugs, the partnership combines the compound identification and screening expertise at the School of Pharmacy's National Center for Natural Products Research with the drug development and clinical trials capabilities at the Cancer Institute at the University of Mississippi Medical Center.

An agreement between the center and the institute created the Drug Discovery Core directed by David Pasco, assistant director of NCNPR and research professor in pharmacognosy.

The drug-discovery process begins at NCNPR, where researchers collect plants and other natural products, create extracts and screen them for activity against given targets. Under the new agreement, the most promising anti-cancer compounds are being sent to Jackson for development and testing.

"Cancer institutes usually have some type of drug-discovery program," Pasco said. "Since Dr. (Lucio) Miele's arrival, Dr. Larry Walker (NCNPR director) and I have been talking with him about this venture."

Miele took the Cancer Institute directorship in summer 2009. He's worked to expand

the institute's research mission by hiring scientists, purchasing high-tech equipment and forging partnerships with other institutions. Founding the Drug Discovery Core is a milestone in that effort.

"Development of new anti-cancer agents is one of the most important aspects of cancer research," Miele said. "The natural products

gene mutations responsible for causing cancer. Those are the targets of drug developers.

"There are several hundred genes identified," Pasco said. "But they all belong to about 12 different signal-transduction pathways."

Blocking those pathways with specially designed drugs can essentially keep genes from switching on or off.

*"Development of new anti-cancer agents is one of the most important aspects of cancer research,"*

DR. LUCIO MIELE

center has tremendous experience, and this agreement increases the synergy between our two campuses.

"Natural products are a rich source of drug discovery and have yielded some of the most potent drugs we still use, the best example being Taxol®," said Miele. School of Pharmacy researchers worked with the companies developing this drug during the years NCNPR was being created.

Cancer research has advanced to the point where scientists have identified most genes and

"Specific collections of these pathways are involved in the expression of different cancers," Pasco said. "And there's a lot of cross talk among those pathways. That's what makes cancer so difficult to treat."

Investigators are searching their screening results for unique patterns of activity among the various signaling pathways.

"Once we find an interesting extract, we can tear it down further to get at the active compound," Pasco said.

Sometimes it's multiple compounds that work together in one extract to make it promising. Getting to the core of that scenario is one of the NCNPR's specialties, Miele said.

Ultimately, by combining several compounds, scientists in the Drug Discovery Core hope to create pharmaceuticals that act on a number of key pathways.

"Because cancer is so complicated, you need to use a range of compounds to prevent tumors from becoming resistant to the compounds you're [already] using," Pasco said.

As those combinations of compounds—candidate drugs—are discovered, UMMC labs in Jackson will test them in vitro (in glass) on various cancer cell lines, Miele said. Once proven in vitro, researchers would test the drugs on tumors in animal models, likely mice or rats. The next phase would take candidate drugs to carefully regulated clinical trials administered by the Cancer Institute. ■



NCNPR Director Larry Walker (left) and Assistant Director David Pasco



## Student Focus

# Two students inducted into Hall of Fame

**R**osemary Call of Gulfport and Brent Crenshaw of Southaven are the two newest additions to the School of Pharmacy student Hall of Fame. Both Doctor of Pharmacy students were selected by their classmates for their significant scholastic and professional contributions to the school.

“Dr. Call is an exceptional young woman who continually demonstrates compassion for the needs of others, including classmates, patients or people with whom she is not acquainted,” said Marvin Wilson, associate dean for academic and student affairs. “She has demonstrated formal and informal leadership since she enrolled at Ole Miss six years ago. It is fitting that her classmates selected her to receive this prestigious recognition.”

“Dr. Call is an exceptional young woman who continually demonstrates compassion for the needs of others, including classmates, patients or people with whom she is not acquainted.”

MARVIN WILSON

Call, a native of Ellenville, N.Y., received the Marcus Elvis Taylor Memorial Medal, the university’s highest academic honor. She also is a member of Phi Kappa Phi honor society, Rho Chi pharmacy honor society and Phi Lambda Sigma pharmacy leadership society. During the pharmacy school’s 2011 awards program, she received the Eli Lilly and Company Award for Leadership and the U.S. Public Health Service Excellence in Public Health Pharmacy Practice Award. Upon graduating, she began a community pharmacy residency with the School of Pharmacy in Jackson.



Pharmacy Dean Barbara Wells (center) congratulates Rosemary Call and Brent Crenshaw on their induction into the school's student Hall of Fame.

Crenshaw served as class president all six years of his Pharm.D. program, the only student in the school's history to accomplish that feat. He is a member of Phi Lambda Sigma and the Mississippi Society of Health-System Pharmacists and was listed in *Who's Who Among American Colleges and Universities* in 2009. After graduating, he began working as a pharmacist with the CVS pharmacy in Southaven.

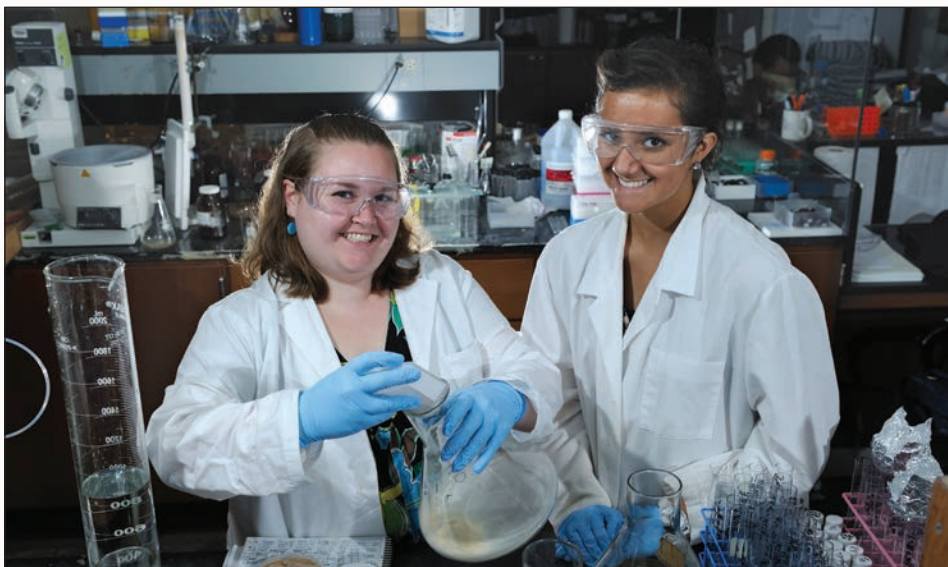
“Dr. Crenshaw has for each of the past six years been the elected leader of his class, which speaks to the level of respect his classmates have for him,” said Wilson. “No other individual has been so honored by his or her peers, and this is a noteworthy testimonial to his interpersonal skills. I have truly enjoyed this extended opportunity to interact with him in this leadership capacity and look forward to his seizing continuing professional leadership opportunities.” ■

“Dr. Crenshaw has for each of the past six years been the elected leader of his class, which speaks to the level of respect his classmates have for him. No other individual has been so honored by his or her peers.”

MARVIN WILSON

## Student Focus

# Doctoral student wins prized NSF graduate fellowship



Amanda Waters (left) shares her enthusiasm for chemistry with local high school student Alexis Fullmer.

A Ph.D. student in pharmacognosy is the University of Mississippi's first graduate student to receive a fellowship from the National Science Foundation Graduate Research Fellowship Program since the late 1990s.

The fellowship provides 25-year-old Amanda L. Waters with an annual stipend of \$30,000 for up to three years, for a total of \$90,000.

Her selection was based on her "outstanding abilities and accomplishments," as well as her "potential to contribute to strengthening the vitality of the U.S. science and engineering enterprise," said James Lightbourne, director of NSF's Division of Graduate Education, in a letter informing Waters she was a fellowship recipient.

Waters is entering the third year of a "straight" Ph.D. program, meaning she is pursuing a doctoral degree without first earning a master's. The University of Oklahoma graduate is focusing her research on a group of compounds called karlotoxins, which have been associated with large fish kills around the world. The toxins are produced by *Karlodinium veneficum*, a type of algae able to grow using photosynthesis or by using the toxins it produces to kill other algae so it can consume them.

"They're a worldwide problem," said Waters, who is developing and simplifying the

"Without her exceptional talent and infectious enthusiasm, projects like this would wither and die."

MARK T. HAMANN

analytical methodologies needed to determine the toxins' exceptionally complex structures.

This spring, she reported results of her work at the 38th annual Medicinal Chemistry and Pharmacognosy Meeting-in-Miniature in Houston, Texas, and walked away with the Robert A. Magarian Outstanding Podium Presentation Award.

"This is a notable achievement and one that reflects positively on Amanda, her mentors, her department and the School of Pharmacy," said its dean, Barbara G. Wells.

Waters is conducting her research in collaboration with UM pharmacognosy professor Mark T. Hamann and Allen R. Place, a professor at the University of Maryland Center for Environmental Science's Institute of Marine and Environmental Technology. Place, who recently received a grant from the National Oceanic and

Atmospheric Administration to prevent and control harmful algae blooms in the Chesapeake Bay area, collects samples of algae and the toxins they produce from around the world and shares them with Waters for analysis using nuclear magnetic resonance spectroscopy.

Karlotoxins were discovered in the United Kingdom in the 1940s, but scientists couldn't elucidate their structures with instrumentation available at the time. Interest in the toxins waned until researchers found that *K. veneficum* and the suite of toxins it produces were present during massive fish kills in the 1990s.

Even with the tools currently available, it took Hamann, Place and three other scientists a decade to produce, purify and solve the complete structure of karlotoxin-2 and publish a paper on their work in 2010.

Waters' role, and the basis of her NSF fellowship application, is developing methods to solve these types of complex chemical puzzles simply, quickly and with small samples of toxins.

"Her academic capabilities are rare and bridge the fields of chemistry, biology, physics, and the environmental and computational sciences," Hamann said. "Without her exceptional talent and infectious enthusiasm, projects like this would wither and die."

Waters has already helped elucidate the structure of karlotoxins produced by algae first isolated in the 1950s. The work reveals that the molecules vary slightly, depending on the region of the world from which they are collected, another reason why her analytical tools are so important. So, too, is the growing frequency of blooms of the organism that produces the toxins.

"These blooms and their negative impact are very likely linked to climate change, increased carbon dioxide emissions, overfishing of oysters, ocean acidification and agricultural runoff," Hamann said. "As a result, they are intimidating indicators of broader environmental challenges."

On the bright side, karlotoxins target cells and cholesterol, so Waters is exploring their potential for killing cancer cells and lowering cholesterol, in addition to developing tools for their environmental analysis. ■



## Student Focus

# Kara Jumper: Student body president-elect

After working in a pharmacy, Kara Jumper fell in love with the profession, as well as the idea of serving her community as its “drug expert.”

“As soon as I decided pharmacy was the career for me, I knew Ole Miss was the pharmacy school for me, too,” she said. “I’ve grown up as an Ole Miss fan and have a couple family members who are graduates of the Ole Miss School of Pharmacy.”

One of the things Jumper especially likes about the school is its “sense of community.”

“We are a family that spends the majority of our time together—in the classroom, studying, playing in Pharmacy Olympics, attending social functions and almost all other aspects of our lives,” she said.

The Brookhaven, Miss., native moved with her family to Graceville, Fla., when she was 6. She attended Graceville High School, where

she maintained the GPA needed to become valedictorian of her graduating class, despite being a cheerleader, serving as Beta Club president and participating in show choir and other extracurricular activities.

She then attended Chipola College in Marianna, Fla., where she completed the first two years of her pre-pharmacy course work, then transferred to Ole Miss.

“Since I came from a small high school in a small town, I was unsure of the level of success

“My fellow pharmacy students are inspiring to me, and I learn so much from them every day.”

KARA JUMPER

I could achieve here,” she said. “However, I exceeded my own expectations.”

Jumper did so with aplomb. She won a Taylor Medal, the university’s highest academic honor, and was selected by her peers to be marshal of her class and president of the pharmacy student body.

“I want the student body to feel encouraged and enabled to do their best by improving communication and providing them with opportunities to succeed, not just academically, but socially and personally,” she said.

Although Jumper thinks she would one day like to practice community pharmacy, she may change her mind after completing adult medicine, ambulatory care, institutional practice and other rotations during the final year of her pharmacy curriculum.

“I have not experienced that many different types of pharmacy practice, so I am open to trying them,” she said.

Until then, Jumper likes being a part of what she describes as “one of the most highly respected groups of students on campus.”

“We are all so focused and have a lot of common goals, and we’re doing what it takes to reach them,” she said. “My fellow pharmacy students are inspiring to me, and I learn so much from them every day.”

Outside of her classrooms and labs, the Oxford Public Library is “probably one of my favorite places,” she said. “I love to read for fun. I also enjoy working on art projects, watching sports, and cooking.”

Although “Pride and Prejudice” is both her favorite book and favorite movie (“I never get tired of it,” she said.), her taste in music is far more eclectic. Her iPod contains everything from Frank Sinatra to Lady Antebellum, Needtobreathe and Parachute. ■



Kara Jumper and Marvin Wilson (associate dean for academic and student affairs) pose for the camera before May commencement ceremonies, for which she served as class marshal.

## Faculty Focus

# Students choose outstanding teachers

Students selected five faculty members to receive awards for teaching excellence this past spring.

Students in the first year of the pharmacy program (PY1) chose John Rimoldi, professor of medicinal chemistry, as their Teacher of the Year. PY2 students selected Erin Holmes, assistant professor of pharmacy practice, as their Teacher of the Year, and PY3 students, who study at the UM Medical Center, chose Laurie Warrington, clinical assistant professor of pharmacy practice, to receive their Clinical Sciences Teacher of the Year award.

PY4 students graduating with Doctor of Pharmacy (Pharm.D.) degrees selected John Bridges, director of pharmaceutical services at Baptist Memorial Hospital for Women in Memphis, to receive the Introductory Practice Experience Preceptor of the Year award and Richard "Buddy" Ogletree, clinical assistant professor of pharmacy practice and coordinator of Drug Information and Investigational Drugs at the UM Medical Center, as their Advanced Practice Experience Preceptor of the Year.

"All of these faculty members really care about their students, and they have an uncanny ability to engage students and stimulate their desire to learn," said Marvin Wilson, associate dean for academic and student affairs. "Their attitude toward teaching and students, plus their ability to deliver contemporary course content,



Pharmacy students selected John Rimoldi and Erin Holmes to receive 2011 Teacher of the Year awards.

makes students appreciate the time they spend with them in the classroom or in their pharmacy practice."

Rimoldi, who teaches pharmacogenetics and pharmacoimmunology to PY1 students, was also named to his second three-year term as the pharmacy school's Galen Order Distinguished Teaching Scholar. His other awards include the pharmacy school's 2002 Faculty Service Award and the university's 2002 Faculty Achievement Award for outstanding career performance.

Holmes teaches a pharmacy law course for PY2 students. She also teaches an elective in personal finance to prepare students to manage the money they will make when they enter the pharmacy profession. In addition to advising pre-pharmacy students, she is a faculty leader for Rho Chi, pharmacy's academic honor society.

Through the Health Resources and Services Administration's Patient Safety and Clinical Pharmacy Services Collaborative, Warrington has an ambulatory care practice and facilitates problem-based learning groups for PY3 students. She also is heavily involved in pharmacy students' service projects at the UM Medical Center and in the Jackson area.

Bridges offers UM pharmacy students an introductory pharmacy practice experience at BMH for Women in Memphis. During the week-long rotation, the students become acquainted with the practice of pharmacy in an institutional setting dedicated to innovative and progressive medication therapy management and patient-focused services.



Laurie Warrington, who received the 2011 Clinical Sciences Teacher of the Year award, counsels a patient at the G.A. Carmichael Family Health Center in Yazoo City.



Richard "Buddy" Ogletree (right) receives the Advanced Practice Experience Preceptor of the Year award from Brent Crenshaw of Southaven, president of the 2011 pharmacy class.



Brent Crenshaw (left) presents the Introductory Practice Experience Preceptor of the Year award to John Bridges, who offers pharmacy students an introductory pharmacy practice experience at Baptist Memorial Hospital for Women in Memphis.

Ogletree provides students an advanced pharmacy practice experience at the UM Medical Center, where he also chairs the Institutional Review Board and serves on Ethics, Patients' Rights and Research Compliance committees. Pharm.D. students chose Ogletree to receive the Clinical Sciences Teacher of the Year award in 2004, 2005 and 2006.

The pharmacy school gives students in each class an opportunity to honor faculty members they believe are exceptional educators. Those chosen for the awards receive a plaque and a monetary award.

"Each of these recipients is committed to students' academic success," said Dean Barbara Wells. "Their approach to their work is a stellar example for faculty and administrators alike." ■



*Faculty Focus***Assistant professor receives New Clinical Practitioner Award**

The American College of Clinical Pharmacy presented Daniel M. Riche with its New Clinical Practitioner Award during its annual meeting in Pittsburgh.

The award honors a new clinical practitioner who has made outstanding contributions to the health of patients and/or the practice of clinical pharmacy.

Riche, an assistant professor of pharmacy practice and medicine, is coordinator of the Cardiometabolic Clinic at the University of Mississippi Medical Center. As such, he developed a collaborative practice protocol allowing him to provide direct patient care, meaning he can daily initiate and modify patient-specific medication therapy.

"Dr. Riche is committed to improving patient care and works each day to improve his knowledge, hone his clinical abilities and train our pharmacy students and residents," said Leigh

Ann Ross, the UM School of Pharmacy's associate dean for clinical affairs.

"He is an excellent clinician, and his efforts are recognized by both professional colleagues and patients," Ross said. "His enthusiasm for clinical practice aligns with the spirit of the ACCP New Clinical Practitioner Award, and this is a well-deserved recognition for his significant contributions."

A Louisiana native, Riche received his Doctor of Pharmacy degree in 2005 from the University of Louisiana at Monroe and completed a family medicine residency at the St. Louis College of Pharmacy. He is a board-certified pharmacotherapy specialist and certified diabetes educator.

"I am both honored and humbled to receive this award," Riche said. "In our region, and particularly our state, cardiometabolic disorders are common and complex. The integration of medication therapy management and utilization of the



*Daniel M. Riche*

pharmacist has been instrumental to the success of our patients and programs." ■

*Faculty Focus***UM's Excellence in Advising Award goes to veteran professor**

David J. McCaffrey III, professor of pharmacy administration, is the recipient of the university's 2011 Excellence in Advising Award.

The annual award recognizes one faculty member and one staff member for outstanding academic advising and demonstrates the university's commitment to quality advising.



*David J. McCaffrey III, professor of pharmacy administration*

"I became a pharmacist in order to help people," McCaffrey said. "While my career changed from pharmacy practice to academia, my desire to help people did not. Academic advising is a natural extension of what I love doing—interacting with and helping people."

McCaffrey is an academic adviser to more than 100 pre-pharmacy students and is the faculty adviser for the UM chapter of the Student National Pharmaceutical Association. He also is a past president of the UM chapter of the Phi Kappa Phi honor society and chairs the university's Taylor Medal selection committee.

Recipients of the advising award are nominated by members of the university community and are selected based on their availability to advisees, the frequency of their contact with students, evidence of a caring and helpful attitude, and other attributes of an effective adviser.

"Dr. McCaffrey exemplifies everything a student needs in an adviser: warmth, practicality, extensive knowledge about program requirements, excellent communication skills and a passion for helping students," one nomination letter said.

Another letter from a colleague said that McCaffrey strengthens the school's overall advising team.

"He enhances the entire School of Pharmacy advising network by making certain everyone is on the same page and has appropriate knowledge to improve our chance of success in helping each and every student," the letter said. "Basically, he makes our advising lives run much more smoothly." ■

## Faculty Focus

# Faculty recognized during annual retreat

The School of Pharmacy recognized four faculty members for research, instructional innovation and service during its annual fall faculty retreat.

The Cumberland Pharmaceuticals Inc. Outstanding Researcher Award was presented to Mahmoud A. ElSohly, research professor in the Research Institute of Pharmaceutical Sciences. An expert on *Cannabis*, he is the author of 28 publications, four patents and has received more than 15 research contracts and grants totaling \$5 million over the past three years. He is founder of ElSohly Laboratories Inc. and co-founder of Phytochemical Services Inc., both in Oxford.

"Dr. ElSohly has been a great citizen, a good friend and an inspiring mentor," said Larry Walker, director of the National Center for Natural Products Research. "This award recognizes his research productivity over the past few years, but his consistent record and leadership in research throughout his career here [are] truly remarkable."

Soumyajit Majumdar, associate professor of pharmaceuticals, received the New Investigator Award for his research on ocular drug delivery and biopharmaceuticals. He has been invited to speak at numerous international and national conferences, is the author of 15 scientific papers and has garnered more than \$2.7 million for research during the past three years.

"Dr. Majumdar has already established himself as an exceptional researcher in the area of ocular drug delivery and biopharmaceuticals," said Charles Hufford, associate dean for research and graduate programs. "He has been extremely successful in obtaining extramural funding for his research programs, and I look forward to watching them grow and thrive."

Daniel Riche, assistant professor of pharmacy practice and medicine, received the Faculty

Instructional Innovations Award. In one of his courses, Riche simulated a pharmacy resident's day while on call with the use of Twitter. Students received tweets, asking them clinical questions similar to those a resident would receive, then had to answer those questions in a limited amount of time.

medicinal chemistry, received the pharmacy school's Faculty Service Award. He has served on the university's Faculty Senate and on the school's Instructional Technology, Scholastic Standards and Information and Resources and Computing committees. He also is a member of the editorial board for *Perspectives in Me-*



Robert Doerksen



Daniel Riche



Soumyajit Majumdar



Mahmoud ElSohly

"Dr. Riche's recognition is testament to the school's commitment to attract and employ young faculty who are focused on enhancing effective teaching strategies and improving student learning," said Marvin Wilson, associate dean for student and academic affairs. "Dr. Riche's implementation and evaluation of pedagogical changes in his course were critical to his selection as the recipient of this award."

Robert Doerksen, associate professor of

dicinal Chemistry and the steering committee for the National Science Foundation's Experimental Program to Stimulate Competitive Research in Mississippi.

"Dr. Doerksen is genuinely committed to student learning, student welfare and students' professional development, and his service demonstrates this commitment," said Dean Barbara G. Wells. "He truly makes a difference in the lives of our students." ■



Pharmacy alumni Alan Spies (left), Jillian Foster, Tina Brock and Joe Bonnarens beam at the camera following their installation as Phi Lambda Sigma officers.



## Alumni Focus

# Alumni recognized with distinguished alumnus, service awards

Recipients of the School of Pharmacy's 2011 Distinguished Alumnus Award are Phil Ayers (BSPh 84, PharmD 96) of Ridgeland, chief of clinical pharmacy services with Baptist Health Systems in Jackson and a clinical associate professor at the pharmacy school, and David Hudson (BSPh 93) of Kosciusko, owner of Sullivan's Discount Drugs in Kosciusko and co-owner of Howell and Heggie Drug Co. in Durant.

The Dean's Service Award went to Bob Broadus (BSPh 74) of Madisonville, La., Allergan's State Government Affairs director.

Distinguished Alumnus Award recipients are selected based on professional accomplishments and service to the school and its students, faculty, staff and alumni. The Dean's Service Award is presented to individuals who have exhibited extraordinary service and dedication to the pharmacy school.

Ayers is board-certified in nutrition support pharmacy and received the school's Clinical Sciences Teacher of the Year Award in 2007 and 2008. He also received the American Society for Parenteral and Enteral Nutrition's Excellence in Nutrition Support Education Award in 2011 and was the Mississippi Society for Health-System Pharmacists' Pharmacist of the Year in 2002 and 2009.

Hudson, who serves on the Mississippi State Board of Pharmacy, is a member of the Mississippi Pharmacists Association, National Community Pharmacists Association and Mississippi Independent Pharmacies Association. As a partner in the pharmacy school's Delta Pharmacy Patient Care Management Project, his innovative medication therapy management practice is improving the health of the region's diabetic patients.

"These two remarkable individuals join a list of accomplished alumni who have advanced the School of Pharmacy, our profession and their



Phil Ayers



David Hudson



Bob Broadus

communities in countless ways," said Barbara G. Wells, the school's dean. "They inspire us and our students, and their example encourages us to do more and to do it better. Phil Ayers and David Hudson demonstrate to our students what can be accomplished through good preparation, hard work and dedication."

Broadus has served as president of the Mississippi Pharmacists Association and the pharmacy school's Dean's Advisory Committee. While in school, he was president of the Student American Pharmaceutical Association. Following a 20-year career with Pharmacia and Upjohn, he joined Allergan in 2004. Since then, he has received the Government Affairs Director of the Year Award, Managed Markets Grace under Fire Award, Managed Market Director's Award and Allergan Peer Award.

"Bob Broadus' leadership within the profession started when he was a student and has continued throughout his career," Wells said. "He has distinguished himself in the area of government affairs, and his support and dedication to the School of Pharmacy is extraordinary." ■

## Alumni Focus

# Graduates continue tradition of leadership

The School of Pharmacy and its Department of Pharmacy Administration have a great tradition of producing individuals committed to advancing the practice of pharmacy by assuming leadership roles within national organizations. A milestone in that tradition was reached this year when the pharmacy leadership society, Phi Lambda Sigma, installed new officers to serve on its Executive Committee.

Four of the officers, who were installed at the end of the society's 36th annual House of Delegates meeting in Seattle, have ties to Ole

Miss, and three of the four are pharmacy administration graduates.

**President:** Joseph K. Bonnarens (MSPS 00, PhD 03-PHAD), associate professor of pharmacy administration at Pacific University's School of Pharmacy in Hillsboro, Ore.

**President-Elect:** Tina Penick Brock (BSPS 90, MSPS 92-PHAD), associate dean for teaching and learning at the University of California-San Francisco's School of Pharmacy

**Treasurer:** Alan Spies (PhD 06-PHAD), director of professional development and

associate professor at the University of Oklahoma's College of Pharmacy

**Parliamentarian:** Jillian Foster (BSPS 01, PharmD 04), director of pharmacy at Baptist Memorial Hospital-North Mississippi in Oxford and president-elect of the Ole Miss Pharmacy Alumni Chapter

Founded in 1965, Phi Lambda Sigma's mission is to support pharmacy leadership by recognizing leaders and fostering leadership development. ■

*Alumni Focus***New distinguished alumni award goes to NIH official**

To ensure that the late Joseph Sam's name continues to be recognized with Ole Miss and achievement in the field of medicinal chemistry, the department he once chaired has created an alumni award in his name.

The Joseph Sam Distinguished Alumni in Medicinal Chemistry Award also recognizes the longtime chair's tenure as UM Graduate School dean and associate vice chancellor for research.

The Sam award "is a fitting tribute to the exceptional impact he had on developing our department and on launching basic research at the university," said Stephen Cutler, chair of medicinal chemistry. "Since every graduate of our department knew Joe Sam, it is also wonderful to recognize our distinguished alumni in this fashion."

The inaugural recipient of the award is Michael Rogers (PhD 72) of Vienna, Va., director of the Division of Pharmacology, Physiology and Biological Chemistry at the National Institutes

of Health's National Institute of General Medical Sciences.

"I feel both humbled and greatly honored to have been selected to receive the inaugural Joseph Sam Award," Rogers said. "He not only guided me through my graduate program, but it was his network of professional contacts that started me on my path at NIH. He was a fine gentleman, an extraordinarily supportive mentor and a guiding influence in my life."

While Rogers was earning his doctorate, Sam served as his dissertation director. He has worked at NIH-NIGMS since 1980 and served on numerous NIH committees. He also served on the advisory board of Chemical and Engineering News from 2002-05 and serves on the Chemical Sciences Roundtable of the National Academy of Sciences.

He received the NIH Merit Award in 1991 and NIH Director's Award in 1989 and 2011.

"Michael Rogers is an exceedingly accomplished scientist," Cutler said. "He is responsible for the planning, organization and



*Michael Rogers*

administration of the NIH-NIGMS's large national program of grants and fellowships in the pharmacology, physiology, biochemical and chemical sciences."

Recipients of the Sam award are selected by a committee of departmental faculty. Criteria include positions held in academia, government or industry, service to the discipline, and quality of research or pedagogical publications, as well as research, grant, teaching or other awards and honors.

Cutler reached out to department alumni and friends to endow the award, and they were quick to respond. Among them was Robert Vince, who was instrumental in getting the ball rolling.

"Joe Sam gave me my first job," Vince said. "I got to know him and his family very well. I always admired him."

Vince left the department to take a faculty position at the University of Minnesota, where he still works, but he never forgot Sam and his mentorship.

"There was something special about Joe, and this award was a good opportunity to honor him," Vince said.

Sam served as department chair before becoming dean of the Graduate School and associate vice chancellor for research at UM in 1969. He died Oct. 3, 2009. ■

**"I feel both humbled and greatly honored to have been selected to receive the inaugural Joseph Sam Award."**

MICHAEL ROGERS



*The late Joseph Sam (second from left) and his wife, Fran, visit with Mahmoud ElSohly and Charles Hufford (right) during NCNPR's 10th anniversary celebration.*



*Alumni Focus***First Pharmacy Alumni Chapter Scholarship awarded**

**L**aura Schrock of Durant, Miss., the inaugural recipient of the Pharmacy Alumni Chapter Scholarship, was introduced to members of the chapter's board of directors during their fall meeting on campus.

"I want to say thank you," Schrock told members of the board. "It is an honor to receive this scholarship, and it carries a responsibility along with it that I do not take lightly."

The chapter's board created the scholarship endowment a little over a year ago to help the School of Pharmacy recruit and retain qualified students. The endowment was funded mostly with proceeds from the chapter's past two pharmacy weekend golf tournaments and gifts from other individuals and organizations.

"We take great pride in the fact that our idea of funding a scholarship is now a reality," said chapter president James A. Pittman Jr. of Madison. "We also are pleased to see the scholarship awarded to a most deserving student. Our first recipient is an amazing representative of the type of student we are attracting to Ole Miss, and I am happy that our chapter and its board of directors had a hand in making her education possible."



*Laura Schrock (third from left), with Marvin Wilson, Barbara Wells and PAC president James Pittman*

Schrock, who completed her pre-pharmacy course work at Holmes Community College and Mississippi State University, is in the third year of the professional pharmacy program.

"Laura is an excellent citizen of the school," said Marvin Wilson, associate dean for student and academic affairs. "We are very proud of her, and we wish we could assist all deserving students in this manner."

In addition to excelling academically, Wilson said, Schrock plays the piano, once played fast-pitch softball and participates in lots of extracurricular activities, including several student pharmacy organizations.

"We are thrilled that our scholarship is helping such a wonderful student," Pittman said. "Our pharmacy degrees have had a profound impact on our lives, and we want a new generation to share that experience." ■

*Development Focus***Scholarship honors son, family's love of school**

**W**hen Ross Sanderson was around 5 years old, his dad, Albert Sanderson, introduced him to the University of Mississippi on a fall Saturday afternoon, and the youngster received a football from Ole Miss cheerleaders. In the future, selected UM pharmacy students will receive scholarship support from a fund created in tribute to Ross Sanderson's life.

At the age of 19, Sanderson, who attended Warren Central High School, died in a car accident in 2002. Thinking of his own alma mater and the days on campus he enjoyed with his son, Albert Sanderson, a Nashville pharmacist, has committed \$75,000 to an endowed scholarship, honoring his son's life by providing assistance to Ole Miss pharmacy students.

"Ross was so outgoing; people gravitated toward him," Sanderson said. "My son wanted to get the most out of every situation he encountered. He had not enrolled in Ole Miss, but I thought he would eventually end up as a



*Albert Sanderson and pharmacy development officer Raina McClure*

student on the Oxford campus. Ross and I came to a number of football games across the years. He was always sports-minded and a talented competitor himself in karate."

School of Pharmacy Dean Barbara Wells said, "Creating an endowed scholarship is such a meaningful way to honor the memory of Ross Sanderson. This scholarship recognizes the remarkable person he was and expands his legacy by allowing many students to benefit from exceptional experiences.

"We are deeply grateful to Albert Sanderson for considering his alma mater when searching for a way to honor his son's life."

Because Ross Sanderson was so young when he died, his father looked to his own UM degree

*continued on page 22*

*Scholarship* continued from page 21

and career to designate the field of study for the scholarship.

"I felt a career in the health care field would be my contribution to the world," Sanderson said. "I had family friends who were pharmacists, and I admired the service they gave and the relationships they built. A pharmacy career is about helping people."

He hopes the Quentin Ross Sanderson Scholarship helps others pursue college degrees and careers in pharmacy and opens doors to other opportunities.

"Attending Ole Miss was such a growing experience," the 1979 graduate said. "I learned so much and met so many people who are still my good friends. Having part of the pharmacy training at the University of Mississippi Medical Center in Jackson was so interesting, particularly working side by side with future physicians and nurses. It was a collaborative atmosphere."

After graduation, Sanderson joined the Mercy Hospital staff in Warren County. His career included stints with Walgreens and Wal-Mart pharmacies and UMMC's Children's Hospital. He is now associated with K-Mart Pharmacy in Nashville.

He has two other sons: Drew Sanderson of Jackson, Miss., a college student; and Derek Sanderson of Clarksville, Tenn., who works for Dell Inc.

The Quentin Ross Sanderson Scholarship is designed to assist full-time students in the professional pharmacy program with a minimum 3.0 grade-point average. Recipients must be Mississippi residents, with first preference given to students from Jones County, where Albert Sanderson grew up, and second preference given to students from Warren County, where Ross grew up.

Sanderson established the scholarship endowment with a cash gift and will complete the fund through a planned gift. With this endowment, he becomes a member of UM's 1848 Society, which recognizes alumni and friends who fund or plan a deferred gift in support of the university. ■

*Contributions to the Quentin Ross Sanderson Scholarship fund may be made by mailing a check (with the fund noted) to the University of Mississippi Foundation, P.O. Box 249, University, MS 38677, or by visiting [www.umfoundation.com/makeagift](http://www.umfoundation.com/makeagift)*

*Development Focus*

## Fortune 500 company provides pharmacy with scholarship

**T**he UM School of Pharmacy is one of 13 pharmacy schools across the nation selected to receive funding from the new \$1.1 million Cardinal Health Pharmacy Scholarship Program.

Universities selected to participate in Cardinal Health's scholarship program offer strong nuclear, independent or hospital pharmacy curricula. Each school received scholarship support ranging from \$50,000 to \$125,000.

"Cardinal Health serves more than 7,000 community pharmacists across the country, and we're one of the nation's largest employers of nuclear and hospital pharmacists," said Mike Kaufmann, chief executive officer of Cardinal Health's pharmaceutical segment. "We passionately believe in the essential role [that] pharmacists play in making sure patients receive safe, high-quality health care. That's why we're proud to partner with the Ole Miss School of Pharmacy to invest in developing tomorrow's pharmacy leaders."

"We are thrilled beyond measure that Cardinal Health chose our pharmacy school to receive this scholarship," said pharmacy Dean Barbara G. Wells. "We are grateful to Cardinal Health not only for choosing to invest in our students' education but also for demonstrating its faith in the quality of the professional education we provide."

The UM pharmacy school recently implemented a new curriculum, enabling its students to spend more time with patients as integral members of health care teams. Its students' pass rate on the national licensure



*Cardinal Health's Robert Clift hands pharmacy dean Barbara Wells a check creating a UM scholarship in the company's name.*

exam is among the highest in the nation, and its curriculum and problem-based approach to learning is a model for other pharmacy schools across the country.

"By many measures—external funding, pass rates on national exams, peer-reviewed papers and national awards—our pharmacy school is considered among the best in the nation," said Marvin Wilson, the school's associate dean for academic and student affairs. "We would like more students involved in our patient-centered education and research activities, and Cardinal Health's scholarship will help us do that."

The UM pharmacy school provides scholarships to all of its Doctor of Pharmacy and Bachelor of Science students who maintain a 3.5 grade-point average, Wilson said. "Basically, we reward our students for academic performance."

Ranked No. 19 on the Fortune 500, Cardinal Health helps pharmacies, hospitals, ambulatory surgery centers and physician offices focus on patient care while reducing costs, enhancing efficiency and improving quality.

The School of Pharmacy's students learn to provide patient-centered care and complete a portion of their professional program at the University of Mississippi Medical Center under the direction of faculty members heavily involved in patient care and research at the university's hospitals and clinics. ■

*"We are thrilled beyond measure that Cardinal Health chose our pharmacy school to receive this scholarship."*

DEAN BARBARA G. WELLS



## Development Focus

## Inaugural Ainsworth scholarships presented

The Jim and Sarah Ainsworth Leadership Award Fund has been created to provide scholarship assistance to deserving students in the School of Pharmacy.

Recipients of the scholarship, which is funded by the Baptist Memorial Healthcare Foundation, must be in the third or fourth year of the professional pharmacy program and have demonstrated leadership throughout their careers as Ole Miss students.

Inaugural recipients of the Ainsworth awards—Laura C. Luther of Hattiesburg and Katie Sims of Athens, Ala.—were announced during a student assembly for pharmacy students.

Both recipients completed their pre-pharmacy course work at UM and are now in the

midst of their professional program. During their six years at Ole Miss, both students have been heavily involved in pharmacy student government, leadership and professional organizations. Both also were elected by their peers to serve as president of their pharmacy classes and as president of the Pharmacy Student Body.

Last year, Sims entered a business plan competition sponsored by the UM School of Business Administration and took second place. Luther, on the other hand, spent last summer in Africa, working with AIDS patients.

“We are honored to name Katie and Laura the first recipients of the Ainsworth Leadership Award,” said Marvin Wilson, the pharmacy

“We are honored to name Katie and Laura the first recipients of the Ainsworth Leadership Award.”

MARVIN WILSON

school’s associate dean for student and academic affairs.

Jim and Sarah Ainsworth of Hernando are both UM alumni. He received his Bachelor of Science in pharmacy in 1967 and retired recently as a vice president for Baptist Memorial Health Care Corp. based in Memphis. She received her Bachelor of Arts in chemistry in 1965 and her master’s degree in education in 1966. She recently retired as an associate professor at the Baptist College of Health Sciences.

During the School of Pharmacy’s “Promises to Keep” campaign, which ended June 30, the Ainsworths gave \$50,000, which was applied to construction of the School of Pharmacy’s new pharmacy building at UMMC.

“We wanted to support the university because it laid the foundation for outstanding professional and personal careers,” Jim Ainsworth said. A large conference room in the new building is being named for the Ainsworths to honor that gift.

During the recent assembly, he told students that, with an Ole Miss pharmacy degree, “You don’t have to take ‘second chair’ to anyone in the country.”

“Jim and Sarah are incredibly generous individuals,” said pharmacy Dean Barbara G. Wells. “They are making a difference not only to our School of Pharmacy but also the world. Their support for the school—as donors, fundraisers, advisers and constant advocates—has spanned four decades.” ■

*The Jim and Sarah Ainsworth Leadership Award Fund is open to gifts from other individuals and organizations. To contribute, contact Raina McClure at 800-340-9542 or raina@umfoundation.com.*

“Jim and Sarah are incredibly generous individuals. They are making a difference not only to our School of Pharmacy but also the world. Their support for the school—as donors, fundraisers, advisers and constant advocates—has spanned four decades.”

DEAN BARBARA G. WELLS



Sarah (left) and Jim Ainsworth of Hernando meet the first recipients of the scholarship they created in their names: Laura Luther of Hattiesburg (second from left) and Katie Sims of Athens, Ala.

## 2010-2011 Financial Report

Total funding for the School of Pharmacy during 2010-11 was \$44,581,147. The funding includes \$11,686,282 in state appropriations and \$29,025,942 in external funding from other sources.

The \$11.7 million in state appropriations included \$9,444,833 for the school's academic departments and \$2,241,449 for its Research Institute of Pharmaceutical Sciences, which includes the National Center for Natural Products Research and the Center for Pharmaceutical Marketing and Management.

The \$29 million in external funding supported research (\$20,363,701), training and education (\$125,635), public service (\$47,606) and construction (\$8,489,000). These external funds were secured because of the scientific expertise and diligent work of the school's faculty and administration.

The School of Pharmacy received \$19,241,608 from the National Institutes of Health during the past federal fiscal year.

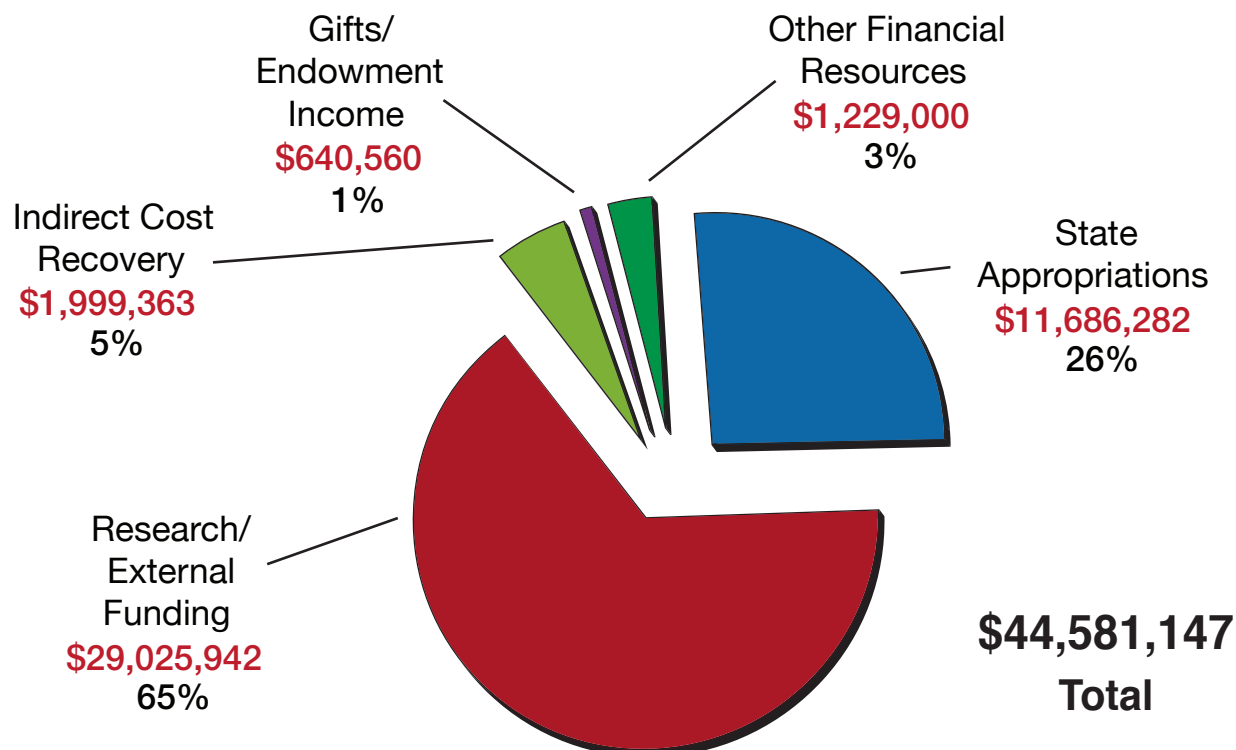
Our graduate programs in environmental toxicology, medicinal chemistry, pharmaceuticals, pharmacognosy, pharmacology and pharmacy administration prepare students for careers in academia and research, as well as for leadership roles in all areas of pharmacy. External funds continue to undergird our excellent master's, doctoral and fellowship programs and enable our faculty and graduate students to continue to achieve high levels of research and scholarly productivity of every kind.

External funding also is key to our infrastructure development, which continues with construction of the new pharmacy building at the Medical Center campus and the addition to the Thad Cochran Research Center.

Funds derived by indirect cost recovery from research expenditures continue to provide additional funds for student activities, faculty support and general operations. With state appropriations decreasing each year, indirect cost recoveries are becoming increasingly important to maintaining the level and quality of our education, research, service and patient-care initiatives.

Gift and endowment income exceeded \$640,000 during 2010-11. This income enabled us to provide \$276,000 in scholarships to our most talented and deserving students, allocate some funds to complete our new building on the UM Medical Center campus, support the professional development of our faculty and staff, and meet some needs in other areas for which university resources do not provide funding.

### 2010-11 School of Pharmacy Financial Resources





Principal Investigator	Co-Principal Investigator	Project Title	Sponsor	Amount
Dr. Benjamin F. Banahan	Dr. Yi Yang, Dr. John J. Bentley, Dr. Patrick F. Pace	Database Study to Evaluate the Impact of Multiple Sclerosis in a Medicare Patient Population	EMD Serono, Inc.	\$115,100
Dr. Benjamin F. Banahan	Dr. Patrick F. Pace	Retrospective Drug Utilization Review, Support of the Drug Utilization Board and 2nd Level Appeal for Prior Authorization Process for the Mississippi Division of Medicaid	*Mississippi Division of Medicaid/DHHS	\$1,364,354
Dr. Benjamin F. Banahan		Prevalence and Treatment of Central Precocious Puberty in the Medicaid Population	Endo Pharmaceuticals, Inc.	\$206,697
Dr. Alicia S. Bouldin	Dr. David J. McCaffrey, Dr. Donna West-Strum	*NCPA Survey: A Description of Consumers' Experiences with Retail and Mail Order Pharmacy	*NCPA	\$28,112
Dr. Charles L. Cantrell	Dr. Samir A. Ross	Discovery of Natural Product Based Pesticides (Herbicidal, Bactericidal, Insecticidal and Fungicidal) and Anti-Infective Agents from Flora of Kazakhstan	The International Science and Technology Center	\$240,000
Dr. John D. Cleary	Dr. Kayla R. Stover	Cardiac Toxicity of Echinocandin Antifungals		\$118,880
Dr. Stephen J. Cutler		Center of Research Excellence in Natural Products Neuroscience-Year 5	*NCRR	\$1,970,471
Dr. Robert J. Doerksen		Combined Computational Chemistry and Computational Biology Modeling for Understanding Protein-Protein and Protein-Ligand Interactions-Competitive Seed Grant	*MSU/NSF/EPSCR	\$36,388
Dr. Robert J. Doerksen		Modeling and Simulation of Complex Systems	*MSU/NSF	\$129,755
Dr. Mahmoud A. ElSohly	Dr. Ikhlas A. Khan	Production, Analysis and Distribution of Cannabis, Marijuana Cigarettes and Related Materials FY 10-11-Modification No. 1, 2 & 3	*NIDA/NIH	\$1,387,380
Dr. Deborah Gochfeld		Using Proteomics to Understand Coral and Sponge Immunity to Stress-Continuation	*NOAA/NIUST	\$22,249
Dr. Mark T. Hamann		Food Additives from Marine Bacteria, Algae and Invertebrates-Amendment 1 & 2	Kraft Foods, Inc.	\$100,000
Dr. Erin R. Holmes		Pharmacy Student Perceptions of Community Pharmacy Residency Programs	*NACDS Foundation	\$4,000
Dr. Melissa R. Jacob		Development of New Agents Against Cryptococcal Infections-Year 3	*Florida Agricultural and Mechanical University/NIH	\$12,875
Dr. Seongbong Jo		Hypoxia-Sensitive Multifunctional Nanoparticles for Targeted Drug Delivery to Breast Cancer	U.S. Army Medical Research Acquisition Activity	\$107,131
Dr. Ikhlas A. Khan		Science Based Authentication of Dietary Supplements-FY 10-11	*FDA	\$500,000
Dr. Ikhlas A. Khan	Dr. Troy J. Smillie	Botanical Identification, Characterization, Quality Assurance and Quality Control	*University of Illinois/NIH	\$176,555
Dr. Ikhlas A. Khan	Dr. Larry A. Walker	Botanical Dietary Supplement Research-FY 10-11	*FDA	\$1,608,000

Principal Investigator	Co-Principal Investigator	Project Title	Sponsor	Amount
Dr. Ikhlas A. Khan	Dr. Mahmoud A. ElSohly, Dr. Troy J. Smillie, Dr. Aruna D. Weerasoriya	Advancing Drug Development in Medicinal Plants Using Transcriptomics and Metabolics-Year 2	*University of Kentucky/NIH	\$344,906
Dr. Soumyajit Majumdar	Dr. Michael A. Repka	Development of Tetrahydrocannabinol Prodrugs for Topical Treatment of Glaucoma	*ELI/NIH	\$55,423
Dr. Susan P. Manly	Dr. M. Khalid Ashfaq	Production of Tolerance and Desensitization to Poison Ivy Urushiols	*ELI/NIH/NIAMSD	\$158,217
Dr. Christopher R. McCurdy		Novel Pharmacologic Interventions for Drugs of Abuse-FY 10-11-Year 5	*NIH/NIDA	\$311,025
Dr. David B. Murray		Chemical and Biological Evaluation of Psychoactive Plants	*CORE/NPN	\$104,913
Dr. S. Narasimha Murthy		Transdermal Delivery of Iron	*NIH	\$66,533
Dr. Dale G. Nagle	Dr. Yu-Dong Zhou	Anticancer Drug Discovery that Targets Tumor Hypoxia-Year 7	*NIH	\$243,214
Dr. Joel R. Pittman		2010 Mississippi Society of Health-System Pharmacists Annual Meeting	Ortho-McNeil Janssen Scientific Affairs/Johnson & Johnson	\$3,105
Dr. Michael A. Repka	Dr. Soumyajit Majumdar	Transmucosal Intra-Oral Drug Delivery Systems for THC-Supplement	*ELI/NIH	\$51,354
Dr. Michael A. Repka	Dr. Soumyajit Majumdar	Fundamental Studies in the Application of Low MW Klucel and Hot-Melt Extrusion for the Oral Delivery of Insoluble Drugs from Tablets, Capsules and Oral Film Dosage Forms-Year 2	Hercules Inc.	\$47,440
Dr. Michael A. Repka	Dr. Soumyajit Majumdar	Properties of HME Extruded Films Containing Kollidon VA-64 and New Polymer, Soluplus-Year 2	BASF SE	\$38,679
Dr. Michael A. Repka	Dr. Soumyajit Majumdar	Hot-Melt Extrusion Feasibility Studies for AR-12: Preformulation and Accelerated Stability	Arno Therapeutics, Inc.	\$40,316
Dr. Michael A. Repka	Dr. Soumyajit Majumdar	Center for Thermal Pharmaceutical Processing-FY 10-11	*DHHS/HRSA	\$594,000
Dr. Daniel M. Riche		Effect of Pterostilbene on Cholesterol, Blood Pressure, and Oxidative Stress	ChromaDex, Inc.	\$76,473
Dr. John M. Rimoldi		Synthesis of Carbon Monoxide Donors and Heme Oxygenase Inhibitors	*UMMC/NIH/NHLBI	\$26,342
Dr. Leigh Ann Ross	Dr. Lauren S. Bloodworth	Better Living Utilizing Electronic Systems (BLUES) in the Mississippi Delta	*Delta Health Alliance/ DHHS	\$500,000
Dr. Leigh Ann Ross	Dr. Barbara G. Wells, Dr. Lauren S. Bloodworth	Delta Pharmacy Patient Care Management Project	*Delta Health Alliance/ HRSA	\$1,500,000
Dr. Leigh Ann Ross		Community Pharmacy Residency Practice Site Agreement	Walgreens	\$25,000



Principal Investigator	Co-Principal Investigator	Project Title	Sponsor	Amount
Dr. Leigh Ann Ross		*UM School of Pharmacy and BMH/NM Agreement-FY 10-11	*BMH-NM	\$73,530
Dr. Justin J. Sherman	Dr. Laurie E. Warrington, Dr. Daniel M. Riche, Dr. Leigh Ann Ross, Dr. Lauren S. Bloodworth	Active Surveillance Attitudes and Perceptions in Prostate Cancer	*National Rural Health/ Emory Univ./DHHS/CDC	\$49,000
Dr. James W. Sims		Biosynthetic Routes to Drug Development for AIDS OI Mtb-Year 2	*NIH/NIAID	\$47,606
Dr. Marc Slattery		*NIUST Integrated Research and Technology Development: Year Four Science Plan and Budget-FY 10	*DOC/NOAA	\$1,344,455
Dr. Marc Slattery	Dr. John M. Rimoldi, Dr. Deborah Gochfeld	Coral Reef Landscape Response to Ocean Acidification	*University of North Carolina Wilmington/DOC/ NOAA	\$75,000
Dr. Larry A. Walker		Ocean Biotechnology Center and Repository Bioassay Support	*DOC/NOAA	\$184,470
Dr. Larry A. Walker		Discovery and Development of Natural Products for Pharmaceutical and Agrichemical Applications	*USDA/ARS	\$2,350,039
Dr. Larry A. Walker		Development of Safer Drugs for Malaria and Leishmaniasis in U.S. Troops, Civilian Personnel and Travelers Grant & Modification 1	*USAMRMC	\$4,703,320
Dr. Barbara G. Wells	Dr. Charles D. Hufford	NCNPR-Phase II	*DHHS/HRSA	\$8,479,000
Dr. Barbara G. Wells		Walgreens Diversity Scholarship 2010-12	Walgreens	\$10,000
Dr. Kristine L. Willett		Polycyclic Aromatic Hydrocarbon Analysis in Sediments and Oysters from Dauphin Island Sea Lab	Dauphin Island Sea Lab/ Northern Gulf Institute/BP Exploration & Production, Inc.	\$10,000
Dr. Kristine L. Willett		BaP-mediated Reproductive and Developmental Toxicity-Year 2	*NIH/NIEHS	\$68,612
Dr. Jordan K. Zjawiony	Dr. Charles L. Burandt	Psychopharmacology of Plants and Their Metabolites Used as Marijuana Substitutes	*NIH	\$71,500
Dr. Jordan K. Zjawiony		Diterpenes as Selective Kappa Opioid Receptor Agents	University of North Carolina at Chapel Hill/NIDA	\$60,562

**ARS**.....Agricultural Research Service

**BMH-NM**.....Baptist Memorial Hospital/North Mississippi

**CDC**.....Centers for Disease Control

**DHHS**.....Department of Health and Human Services

**DOC**.....Department of Commerce

**ELI**.....EiSohly Laboratories, Inc.

**EPSCR**.....Experimental Program to Stimulate Competitive Research

**FDA**.....Food and Drug Administration

**HRSA**.....Health Resources and Services Administration

**MSU**.....Mississippi State University

**NACDS**.....National Association of Chain Drug Stores Foundation

**NCNPR**.....National Center for Natural Products Research

**NCPA**.....National Community Pharmacists Association

**NCRR**.....National Center for Research Resources

**NHLBI**.....National Heart, Lung and Blood Institute

**NIAID**.....National Institute of Allergy and Infectious Diseases

**NIDA**.....National Institute on Drug Abuse

**NIAMSD**.....National Institute of Arthritis and  
Musculoskeletal and Skin Disease

**NIEHS**.....National Institute of Environmental Health Sciences

**NIH**.....National Institutes of Health

**NIUST**.....National Institute for Undersea Science Technology

**NOAA**.....National Oceanic and Atmospheric Administration

**NSF**.....National Science Foundation

**UM**.....University of Mississippi

**UMMC**.....University of Mississippi Medical Center

**USAMRMC**.....U.S. Army Medical Research Acquisition Activity

**USDA**.....U.S. Department of Agriculture



THE UNIVERSITY OF  
MISSISSIPPI

School of Pharmacy  
P.O. Box 1848  
University, MS 38677

Nonprofit Org.  
U.S. Postage  
PAID  
Permit No. 6  
University, MS

## David D. Allen to become pharmacy school's new dean

The university has selected Kentucky native David D. Allen to succeed Barbara G. Wells as dean of the School of Pharmacy. Allen, 49, is founding dean of pharmacy and professor of pharmaceutical sciences in the College of Pharmacy at Northeast Ohio Medical University and professor of physiology and pharmacology in NEOMED's College of Medicine.

Allen's appointment begins Jan. 1. He also will serve as executive director of the Research Institute of Pharmaceutical Sciences and professor of pharmacology.

As founding dean at NEOMED, Allen built its pharmacy program from nothing to 53 faculty members, 16 staff members and 274 students in five years (2006-2011). He also was the first faculty member hired in 1996 by the new School of Pharmacy at the Texas Tech University Health Sciences Center in Amarillo. There, he rose through the ranks to associate dean for curricular affairs, before becoming dean in Ohio.

"We are thrilled that someone with Dean Allen's enthusiasm, experience and entrepreneurship will be leading our School of Pharmacy," said Morris Stocks, UM provost and vice chancellor for academic affairs. He will be a

wonderful dean, and we look forward to watching him make our pharmacy school, which is among the best in the country, the country's best school."

Allen earned his bachelor's degree in pharmacy at the University of Kentucky, then practiced pharmacy for several years before returning to UK to earn his Ph.D. in pharmaceutical sciences.

He has been licensed to practice pharmacy in five states and has been a visiting scientist in Chile, France and Switzerland, as well as at the Laboratory of Neurosciences' Neurochemistry and Brain Transport Section of the National Institutes of Health's National Institute of Aging, where he also was an Intramural Research Training Award Fellow for two years.

He has served as principal investigator or collaborator on 30 research projects funded by the NIH, American Heart Association, the government of Chile and pharmaceutical companies. He also is the author of 71 peer-reviewed



David Allen

articles and 41 professional publications, and has contributed to four books.

He is on the editorial boards of *Pharmacology Weekly* and *Drug Development and Industrial Pharmacy*, and previously served on the editorial boards of the *American Journal of Pharmaceutical Education* and *Life Sciences*.

Besides receiving dozens of leadership, teaching, research and practice awards, he was designated a Fellow of the American Pharmacists Association in 2011 and the American Society of Health-System Pharmacists in 2004. He is a member of the American Association of Colleges of Pharmacy's Council of Deans and chaired its Costs of Experiential Education Task Force. He also chaired AACP's Biological Sciences Section and Student Services Special Interest Group.

Allen said that he is "ecstatic" to be joining the Pharmacy School and plans to build on accomplishments it achieved under Wells' leadership.

"I am grateful to be afforded the opportunity to be part of its future," he said. "There are great times ahead for the Ole Miss School of Pharmacy, and I look forward to working with a stellar cadre of faculty, staff and students, as well as alumni and other stakeholders." ■