

GATORRX



**PHARMACOGENETIC
TESTING DELIVERS
PROMISING RESULTS**

for Patients Like Jeff Cruse

Dear colleagues, alumni and friends,

As UF was setting its goals for becoming a top 10 public university, the College of Pharmacy embarked on a strategic planning exercise to define our goals as a college over the next five years. The process served as a great opportunity to reflect on where we have been and where we want to go as a college. The pillars of our success remain our educational programs that are training pharmacists and scientists to be leaders in the field, a robust research program that crosses the spectrum from drug discovery to medication use in society and the advancement of pharmacy practice to optimize patient-centered care and health care delivery. Building upon these strengths and identifying opportunities for improvement have helped us map our strategic plan based upon four goals.

College Goal 1: Discover new knowledge to improve the lives of others through high impact research and provide outstanding research training in areas core to the college.

As you will read in this edition of GatoRx magazine, researchers in the College of Pharmacy continue to lead pharmaceutical and medical breakthroughs that are having a meaningful impact on patients. I encourage you to read the story about Jeff Cruse and the UF Health Personalized Medicine Program (see page 8). Mr. Cruse is a wonderful example of how pharmacogenetics is changing lives and how this field is transitioning from one of research to clinical practice that may have a dramatic impact on the practice of pharmacy. Achieving high-impact research requires talented scientists, and our college boasts of many successful researchers willing to go to great depths to find the next drug discovery (see pages 6 and 13) or help pharmacists prevent dangerous blood sugar levels during a patient's hospital stay (see page 12).

College Goal 2: Create, evaluate and disseminate innovative and transformative pharmacy practice models that result in high-quality, cost-effective, patient-centered care that improves lives.

John Gums, Pharm.D., associate dean for clinical affairs, is leading efforts within the College of Pharmacy to develop innovative clinical pharmacy practice models to document entrepreneurial financial models that elevate practice opportunities and improve the lives of patients.

College Goal 3: Prepare Pharm.D. graduates to become leaders who improve the health and wellness of individuals and communities and advance pharmacy practice into the future.

The introduction of our new Pharm.D. curriculum in the fall marked one of the most significant advances in pharmacy education in our college's history. Our approach to training the next generation of pharmacists focuses on interprofessional, team-based learning with an emphasis on delivering patient-centered care. I am proud of our faculty who have embraced these new courses and teaching styles, along with the effort they have put forth to improve the quality of education at our college.

College Goal 4: Stimulate a culture that promotes diversity of thought and lifelong learning within an exceptional community of students, faculty and staff.

We continue to work to have a more diverse student body, faculty and staff that brings together people of different backgrounds and life experiences to enhance the culture and learning environment in the college. One of the things we are doing, much like UF more broadly, is seeking to increase the number of out-of-state students in our Pharm.D. program. We are also a center of excellence for lifelong learning with numerous distance education and online degree programs for working professionals. One of our most successful programs, the Working Professional Pharm.D. Program, or WPPD, celebrated its 2,500th graduate in December (see page 10).

In March, we were excited to learn the *U.S. News and World Report* rankings placed us No. 9 among 125 colleges of pharmacy. This highlights that our peers recognize the excellence of the college. Continuing the College of Pharmacy's legacy of service to the citizens of Florida, the nation and the world requires strategic planning by our leadership and sustained support from our alumni and friends. I am grateful for the many ways you share the Gator Good and give back to our college. From mentoring pharmacy students to supporting student scholarships through the Crisafi Challenge (see page 16), the commitment you make to improving pharmacy education is much appreciated. I look forward to seeing many of you at our Gator receptions in the summer and fall and sharing more about our strategic goals.

Julie Johnson, Pharm.D.
Dean and Distinguished Professor



GATORx

The University of Florida College of Pharmacy publishes the *GATORx* magazine annually to share its news and achievements in research, education and service.

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2

Preeminence

New researchers at the College of Pharmacy are fulfilling UF's vision to be a top public research university.



4

Lasting Legacy

The College of Pharmacy bids farewell to Drs. Mike McKenzie and Bill Millard.



6

The Search for Cyanobacteria

A unique partnership leads Dr. Hendrik Luesch and Debbie DeSantis to the Florida Keys in search of the next great drug discovery.



8

Precision Medicine

Genetic testing is helping health care providers tailor treatments to individual patients.



10 WPPD Program

WPPD graduates share how their degree has changed their life

12 Prediction Algorithms

FDA grant helps hospital pharmacists prevent dangerous blood sugar levels

13 Biofilms

Novel compounds target deadly biofilms

14 Annual Report in Brief

A review of the college's funding and research activities

16 Alumni News

Crisafi Challenge supports student scholarships

18 Philanthropy

Dean's Circle donors give generously to the college

22 Faculty News

Dr. Derendorf named 18th Distinguished Alumni Professor

26 Student News

Student pharmacists contribute to the Gator Good

The next issue of GatoRx will be published in August 2017.

FROM PEPTIDES TO PREEMINENCE

A Decade-Long Collaboration Leads New
Faculty Drs. Jane Aldrich and Jay McLaughlin
to UF as Preeminence Scholars

For more than a decade, scientists Jane Aldrich and Jay McLaughlin relied upon phones and computers to bridge their worlds of opioid peptide research. Separated by nearly 1,400 miles, Aldrich, residing in the Midwest, and McLaughlin, living on the East Coast, shared a common pursuit of drug discovery.

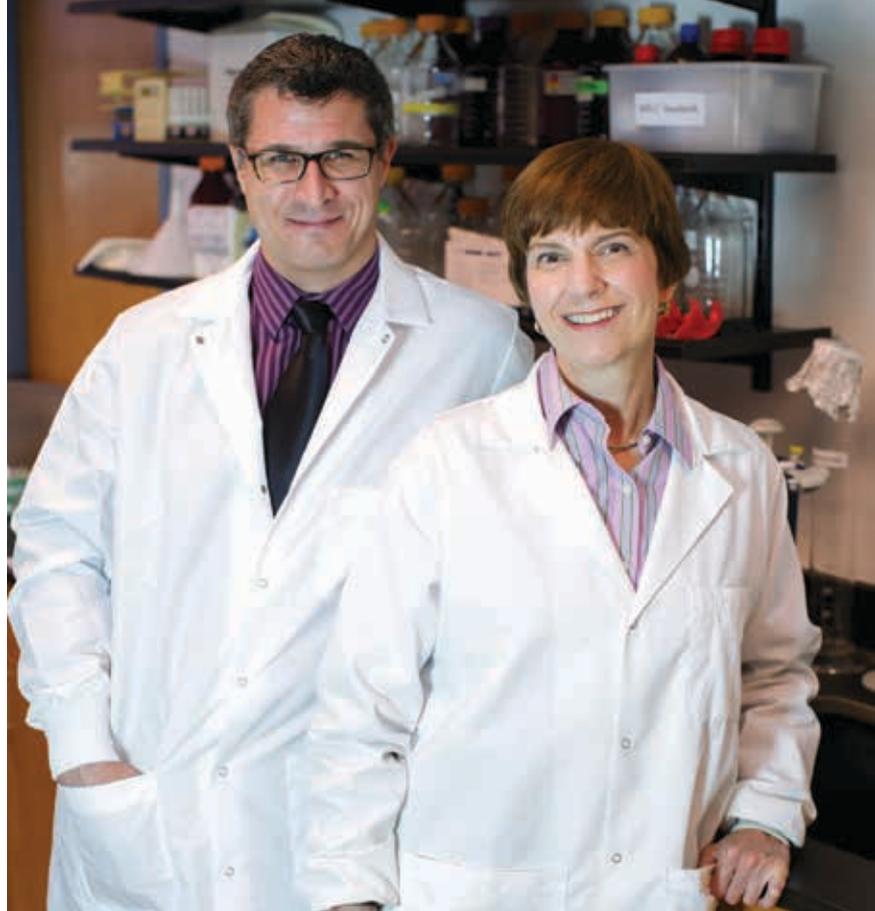
“I joked that sometimes I would talk to Jay more on the phone than someone one floor up in my building,” Aldrich said.

In recent months, the phone conversations have been replaced by face-to-face meetings, as Aldrich and McLaughlin both joined the faculty at the University of Florida College of Pharmacy.

As the senior partner, Aldrich is among the country’s leading experts on peptide design and synthesis. Before joining UF, she spent 14 years as a professor of medicinal chemistry at the University of Kansas. Her impact on the field includes 100 journal articles, service on multiple editorial review boards for scientific journals, tenure as president of the American Peptide Society, chair of the Medicinal Chemistry Division of the American Chemical Society and a recent invitation to serve on the Center for Scientific Review’s Drug Discovery for the Nervous System Study Section.

Aldrich established her career making chemical compounds tested in cell-based assays to see how well they interacted with opioid receptors. The experiments were in vitro, or test-tube based. Her research team primarily made compounds that acted as antagonists — compounds that would block the activation of receptors by agonists and allow for further study of receptor functions.

As Aldrich developed this line of research, she discovered several compounds that were good antagonists, but her studies were limited to the test tube assays. She was unsure if the compounds would be stable enough for sufficient duration of activity in the body.



In 2005, Aldrich attended the International Narcotic Research Conference and struck up a conversation with McLaughlin, then a first-year assistant professor at Northeastern University with a background in neuroscience.

“We were sitting at this conference, and I said it would be interesting to test this peptide [arodyn] in animals, but it was going to be short acting because it is not really stable in the middle,” Aldrich said. “Jay said ‘that’s a good thing,’ and the conversation went from there.”

McLaughlin convinced Aldrich to send him the compound. Tests showed it blocked agonist activity at kappa opioid receptors in mice. At the same time, scientists discovered that the kappa opioid system was involved with stress responses — particularly the response to drugs of abuse. Aldrich and McLaughlin surmised that putting a kappa opioid in the body could block the activation of the receptors and potentially be used to treat drug abuse.

“All of a sudden this group of compounds had the potential for therapeutic applications,” Aldrich said.

The pair’s mutual curiosity in finding a short-acting antagonist spawned a decade of collaboration. Their first big research breakthrough came in 2007, when they looked at a peptide called zyklophin, which was previously synthesized in Aldrich’s lab.

“Zyklophin was an incredibly selective, highly effective, peptide kappa antagonist that as far as we could tell had very few side effects,” McLaughlin said. “That was one of our first real big hits, and when it was published in a very well respected journal [The Proceedings of the National Academy of Sciences], it grabbed a lot of people’s attention.”

“It’s going to be a lot of fun. Science, when you get good results, can be exciting. I think there are some fantastic opportunities here at the College of Pharmacy to see what we can do with these compounds and see where they can go.” — Aldrich

Zyklophin proved to be challenging to synthesize and purify in large quantities. While Aldrich’s research group worked on scaling up the synthesis of zyklophin, Aldrich and McLaughlin began testing other compounds, looking for similar activity. In the process, their research garnered the attention of multiple funding sources. The collaborators secured two RO1 NIH grants to study the peptides’ relationship to drug addiction and cocaine abuse.

With their research taking off, both scientists continued their respective careers a time zone apart. In 2009, McLaughlin accepted a position at Torrey Pines Institute for Molecular Studies in Port St. Lucie, Florida. The new role allowed him to apply his experience in behavioral science to study new compounds developed at Torrey Pines. Meanwhile, he continued to work with Aldrich on developing new compounds, writing papers and applying for grants.

“Jane had this interest in pharmacology and the background,” McLaughlin said. “What I was bringing was the behavioral experience. She had not had the opportunity to develop that, and I was bringing additional experience with pharmacology. That became a synergy that we could play off each other.

“She needed the additional partnership that I could provide, and I needed the additional compounds that she had. The two of us, with her as the senior partner, would start talking, and our conversations were two hours long every few days.”

A new twist in the partnership developed in 2014 when Aldrich was offered a position at the UF College of Pharmacy, and she suggested McLaughlin’s name as another potential hire.

The University of Florida’s Preeminence initiative was recruiting top scientists to join UF and help the university become an international leader in more than two dozen fields — including drug discovery and development. Within a matter of months, Aldrich and McLaughlin would become two of five Preeminence hires made by the College of Pharmacy.

“Working on the same campus is really giving our group members the chance to sit down and talk,” Aldrich said. “Chemists can talk to the biologists, and the biologists can learn more about the challenges of solubility and how it can limit the testing of compounds. I think it’s really going to strengthen the project feedback and our research.”

Recently, Aldrich and McLaughlin have been examining cyclic tetrapeptides as treatment options for drug addiction. The pair is also searching for pain killers that are safer, more potent and easier to use. The long-term goal is to some day advance a drug to human clinical trials. It is a goal made much more achievable thanks to the wealth of scientific and clinical resources available at the University of Florida.

No longer does the pair measure separation by miles, but rather by floors in a building. Aldrich’s office resides only three floors apart from McLaughlin’s. While face-to-face meetings are replacing the phone’s role in the relationship, the pursuit of drug discovery remains the ultimate goal.

“It’s going to be a lot of fun,” Aldrich said. “Science, when you get good results, can be exciting. I think there are some fantastic opportunities here at the College of Pharmacy to see what we can do with these compounds and see where they can go.”

New Preeminence Program Faculty

UF Preeminence is the university’s effort to become an international leader in more than two dozen areas, including health, agriculture, computing and education. UF was designated a preeminent state university in 2013 and embarked upon a recruitment plan to hire renowned faculty who are joining existing faculty to improve lives around the world. The College of Pharmacy has hired five accomplished faculty under the Preeminence initiative.



JANE ALDRICH, PH.D.

Professor of Medicinal Chemistry

PREEMINENCE AREA:
Drug Discovery and Development



JÜRGEN BULITTA, PH.D.

Associate Professor of Pharmaceutics

PREEMINENCE AREA:
Drug Discovery and Development



JATINDER LAMBA, PH.D., M.S.

Associate Professor of Pharmacotherapy and Translational Research

PREEMINENCE AREA:
Metabolomics and Cancer Therapeutics



JAY MCLAUGHLIN, PH.D.

Associate Professor of Pharmacodynamics

PREEMINENCE AREA:
Drug Discovery and Development



THOMAS SCHMITTGEN, PH.D.

Professor of Pharmaceutics

PREEMINENCE AREA:
Cancer Therapeutics and Drug Discovery and Development

A LEGACY OF LEADERSHIP

Drs. Mike McKenzie and Bill Millard provided more than 70 years of service to the College of Pharmacy, and along the way they touched the lives of thousands of faculty, staff and students. As they enter retirement, the college looks back on their legacy of leadership and what the future holds for these pillars of our college.



MIKE
MCKENZIE

With a microphone in hand, Mike McKenzie, Ph.D., prepares to address students in the lecture hall. It is August 10, 2015, the first day of orientation for the entry-level Pharm.D. program and more than 225 new UF pharmacy students sit before him in the HPNP Auditorium. For the 31st consecutive year, he raises the microphone to welcome the incoming class to the College of Pharmacy — delivering a message of reassurance and opportunity awaiting these future pharmacists in their academic training.

While the venue and faces have changed over time, the mission has not. As associate dean of student affairs, McKenzie has led the recruitment, admission, retention and quality of life activities for students at the College of Pharmacy since 1984. His mild-mannered approach and wealth of institutional and pharmacy knowledge has benefitted thousands of students who have matriculated through the college during his tenure.

“Nurturing students and helping them through the academic process is a rewarding type of activity,” McKenzie said. “I enjoy helping pre-pharmacy students come into the college, and then see them grow both personally and professionally as

“Being part of the first group of clinical faculty members was a challenging and exciting time in the college. We had to prove ourselves as clinicians and faculty members.” — Mike McKenzie

they overcome challenges. It is rewarding to see them achieve their educational goal of becoming a pharmacist.”

McKenzie arrived at the University of Florida as a master's student in 1970. The Alabama native had his sights set on a career in hospital pharmacy administration. As a graduate assistant, he worked on the pediatrics floor at UF Health Shands Hospital gathering research information about drug dosages and assisting pediatricians and nurses with questions about medications. The experience sparked a lifelong interest in pediatric pharmacy and eventually led to College of Pharmacy dean Kenneth Finger offering McKenzie a full-time clinical faculty position in 1972.

“I was the second clinical faculty member hired by the College of Pharmacy,” McKenzie said. “Being part of the first group of clinical faculty members was a challenging and exciting time in the college. We had to prove ourselves as clinicians and faculty members.”

McKenzie taught students in pediatric pharmacy clinical clerkships and in therapeutics courses. He offered perhaps the first pediatric pharmacy elective course in the country in the early 1980s. He also served as the director of the post-baccalaureate Pharm.D. program for several years prior to his appointment by Dean Michael Schwartz as the assistant dean of student affairs.

Surrounded by a team of professionals dedicated to helping students, he has provided three decades of leadership to the Office of Student Affairs. The addition of three new distance education campuses in Jacksonville, Orlando and St. Petersburg in 2002 brought a host of new challenges for his team.

continued on pg. 10



BILL MILLARD

“When people ask ‘why did you stay in administration for 21 years?’ I say it is because I was surrounded by good people that were spectacular to work with.”

— Bill Millard

For 21 years, Bill Millard measured success by growth in numbers. During his tenure as associate dean for research and graduate studies and later executive associate dean, the College of Pharmacy’s research funding grew from \$4 million to \$12.4 million and graduate student enrollment expanded from 66 to 100. Now, he measures success in a different direction — reducing his golf handicap.

“My handicap is nine, and I want to get it back down to two,” Millard said.

The avid golfer plans to play as much as possible during retirement. He has set his sights on playing every course on Alabama’s Robert Trent Jones Golf Trail. Navigating fairways and sand bunkers is a welcomed change of pace following nearly three decades of service to the College of Pharmacy.

Millard arrived in Gainesville in 1986 as an associate professor of pharmacy in the department of pharmacodynamics. As a new faculty member, he built a successful neuroscience-based research program and developed a passion for educating graduate students. In 1995, Dean Michael Schwartz, Ph.D., asked him to serve the college in an administrative role overseeing the research and graduate studies program. The transition signaled a change in responsibility and mentality.

“You have to get rid of me and think about we [as an administrator],” Millard said. “You take the ‘m’ and turn it upside down. That is the biggest difference between a faculty member and an administrator.”

Millard embraced his administrative role in many ways. He worked tirelessly to support faculty research and relied upon the ‘wits of wisdom’ passed down from his mentor, Harvard professor and member of the Institute of Medicine of the National Academy of Sciences, Joseph B. Martin, M.D., Ph.D., to navigate difficult decisions. His approach was to never make a tough decision quickly and treat people fairly regardless of their position. A strong advocate for graduate education, he helped faculty build their educational programs and watched events such as the college’s Research Showcase grow into

successful avenues to promote student research. He served under three deans during his tenure, Schwartz, Riffie and most recently Julie Johnson, Pharm.D., also an Institute of Medicine (now called The National Academy of Medicine) member, and he credits the stable, supportive leadership at the top of the college for making his career successful.

In some instances, Millard literally helped the college grow from the ground up. As a facilities planner, he oversaw the design and construction of many College of Pharmacy building projects — including construction of the UF Research and Academic Center at Lake Nona. The \$53 million, 106,000-square-foot, state-of-the-art building in Orlando houses the College of Pharmacy’s Doctor of Pharmacy program, the Center for Pharmacometrics and Systems Pharmacology and the Medication Therapy Management Communication and Care Center.

“It was a labor of love for five years,” Millard said. “You knew you were building something now for the future, and it was a lot of fun. I loved getting involved at the beginning and watching the building go from dirt to reality. The complexity of the construction project was unbelievable.”

In addition to Lake Nona, Millard assisted the college in the construction of the Health Professions, Nursing and Pharmacy, or HPNP, building. He oversaw renovation projects in the college’s research wing and student center in Jacksonville. His efforts behind the scenes helped the college modernize its facilities in the last decade and fueled his desire to see improvements within the college.

As Millard turns his attention to changing his golf handicap for the better, he also has his sights set on pursuing some ambitious retirement goals, including running the 2016 Marine Corps Marathon in Washington, D.C. He plans to volunteer with the Sebastian Ferrero Foundation and draw attention to the importance of drug safety at UF Health Shands Children’s Hospital. Finally, he plans to volunteer at Gator baseball, softball and golf events — keeping him connected to the sports and university

continued on pg. 10

EXPLORING NEW DEPTHS IN DRUG DISCOVERY

A mutual research interest brings together College of Pharmacy alumna and supporter Debbie DeSantis and Dr. Hendrik Luesch in search of cyanobacteria in the Florida Keys



College of Pharmacy alumna and supporter Debbie DeSantis, '82, and Hendrik Luesch, Ph.D., a professor and chair of medicinal chemistry, share a mutual interest in natural products. In 2015, the pair enjoyed a rare opportunity to connect in the Florida Keys to collect cyanobacteria, an organism that produces several medically important compounds that could be useful to treat cancer and other diseases.

The partnership represents more than just a research opportunity. Luesch serves as the Debbie and Sylvia DeSantis Chair in Natural Products Drug Discovery and Development at the College of Pharmacy, an endowed position funded by Debbie and her mother, Sylvia, in 2002. The professorship was established to help the college build programs in natural products research and education. Debbie has taken an interest in Luesch's research in marine natural products chemistry and welcomed the opportunity to join him in collecting certain cyanobacteria, which live in coral reefs around the world.

"It is amazing to be financially supported by a donor, but it is even more amazing that the same donor came out with us and helped us collect cyanobacteria," Luesch said.

Joining Luesch and DeSantis on the trip were College of Pharmacy alumna Sherri Costello, '82, and friend Vivian Delgado. In the shallow waters off the coast, the group spent the day snorkeling in search of the seaweed-like organisms. Cyanobacteria are often identified using a combination of sight and touch. In an ocean full of diverse marine activity, identifying promising and potentially novel species of cyanobacteria, and distinguishing them from morphologically similar organisms, can be difficult for even the skilled expert.

"It's more of a treasure hunt," Luesch said. "We search in ecological niches that possess the characteristics for cyanobacteria to thrive. At some sites, we search for hours and fail to locate cyanobacteria.

"At this particular site in the Keys, we have had some good success in the past and were pretty confident we would see the same cyanobacteria and maybe some new ones."

True to his prediction, Luesch's team spotted cyanobacteria minutes after entering the water. The find provided a great opportunity to orientate DeSantis and friends visually to the organisms and acclimate them to the search and collection process.

By nature, DeSantis embraces adventure. The search for cyanobacteria is no different. On this day, the group spent hours in the water with Luesch and his team gathering cyanobacteria and placing them in plastic bags for storage. The potential for a new drug discovery fueled her ambition in the search and affirmed her support of Luesch's natural products research.

"I understand what it takes to go from collecting cyanobacteria off a rock to developing a medicine that could save a

life," DeSantis said. "The amount of time, money and effort it takes to get there is quite substantial.

"It takes someone with a passion to go there without getting discouraged. He and his team have the passion in their eyes. They are excited to do their work and do something meaningful, and I am happy to be a tiny part of it and help in any way I can."

Cyanobacteria collected in the Keys are stored in plastic bags, frozen and transported to Luesch's laboratory in Gainesville where researchers use solvents to tease out different compounds that may one day be effective in treating various diseases. The lab process is tedious and costly. It can take upwards of a year to identify a compound and determine its chemical structure and even longer to determine the underlying cause for the biological activities.

Previous cyanobacteria dives have yielded several new compounds that have shown promise in attacking cancer cells. To produce enough of these compounds to get a drug to clinical trial or marketed, Luesch and his team use chemical synthesis in a laboratory to reproduce what occurs naturally in the ocean. They also use these compounds as starting points to generate analogues with improved properties compared with the natural product.

"We have a number of promising compounds for several disease indications," Luesch said. "The key is developing scalable synthesis so that we can produce grams of materials in the laboratory. That is a major hurdle for everyone doing natural products research. We need to demonstrate that you can get enough of the compound whenever you want it.

"We are at that point with several molecules that we have been able to synthesize and show that we can get a significant amount. We're trying to collect the data that allows us to hopefully perform clinical trials with patients."

Luesch and his team also spend a significant amount of time studying the mechanism of action and biological target of these compounds. In addition, they perform preclinical in vitro and in vivo pharmacology studies, which adds tremendous value to his findings that support drug development.

Many of the drugs marketed today were derived from natural products. With ocean water filling most of our planet, endless potential exists to tap the ocean's biodiverse landscape for the next promising drug discovery. A fact not lost on DeSantis.

"This is important work and it is going to save lives," DeSantis said. "It is an honor and privilege that I am able to support Dr. Luesch and be a part of this important project."



VIDEO LINK:

<https://www.youtube.com/watch?v=5Jt2rp3w1x8>



The Promise of Precision Medicine

A UF Health research study demonstrates how pharmacogenetic testing can deliver pain relief to patients

For Jeff Cruse, 51, one of the greatest joys in life is spending an afternoon at the park with his four grandchildren. He cherishes the opportunity to push his three oldest on the tire swing and help each of them down the slide. A chronic back injury limits his mobility but does not deter him from being part of these special family moments.

Back pain became a way of life for Cruse following a work accident in 2009. Diagnosed with underlying degenerative disc disease in his neck and back, the former ceiling mechanic and High Springs, Florida native was left nearly immobile following the accident. Years of therapy and multiple medications did little to ease his pain.

“Nothing helped me,” Cruse said. “The doctors and therapists told me there was nothing they could do for me, and I was going to have to live with pain the rest of my life.”

Not willing to accept his diagnosis as permanent, Cruse visited pain management specialist and UF Health physician Siegfried Schmidt, M.D., Ph.D., a professor of community health and family medicine.

Schmidt determined that Cruse was overmedicated for his back pain.

“We stopped several drugs and adjusted other medications, including prescribing hydrocodone for his back pain,” Schmidt said. “This was accompanied by pain management counseling.”

After several months of improvement in pain and function, Cruse returned for a follow up visit and said his pain was worse.

Schmidt and his team were surprised by the development and decided to better understand the cause of the pain.

Cruse agreed to participate in a new College of Pharmacy-led pharmacogenetics study underway at several UF Health family medicine locations that examines the role genetics plays in drug therapy. The study would help determine if Cruse’s genetic profile was impacting the effectiveness of his pain relieving medications.

CYP2D6 STUDY

Researchers at the College of Pharmacy and UF Health’s Personalized Medicine Program are studying the enzyme CYP2D6, a key protein responsible for drug metabolism. For opioid pain medications, such as codeine and tramadol, CYP2D6 activates the drug into a form that provides pain relief. Patients with genotypes associated with little-to-no CYP2D6 activity are unable to convert sufficient amounts of opioid pain medications to an active state and as a result receive minimal to no pain relief from the drug. Patients can also have a genotype associated with higher than usual CYP2D6 activity and are at an increased risk for serious reactions to some opioid pain medications.

According to Larisa Cavallari, Pharm.D., the principal investigator for the Implementing Genomics in Practice (IGNITE) Proof of Concept Study: Genotyping in Family Medicine Clinics, up to 10 percent of the population makes little-to-no CYP2D6

“Taking that test has changed my life. It’s going to change a lot of people’s lives.” —Jeff Cruse

protein based on their genetics. Another two to five percent of the population has higher than usual amounts of CYP2D6 protein.

“Identifying individuals with low or high CYP2D6 activity allows personalized prescribing of pain medicine and may lead to better pain management and control,” said Cavallari, an associate professor of pharmacotherapy and translational research and director of the UF Center for Pharmacogenomics. “With genetic testing, physicians and pharmacists have another tool to assist with medication prescribing. The health care team can use genetic test results in the context of other information, such as medications that a patient is taking, to help guide a more effective and safe therapy plan.”

GENETICS ROLE IN PRECISION MEDICINE

Genotype-guided therapy is a component of the growing field of precision medicine — an innovative approach to disease prevention and treatment that takes into account differences in people’s genes, environments, lifestyles and other factors to make medical decisions and tailor therapies to an individual. The idea gained a significant endorsement in January 2015 when President Obama announced the Precision Medicine Initiative during his State of the Union Address. The White House made an initial \$215 million investment in the President’s 2016 budget to accelerate biomedical discoveries and advance research related to precision medicine.

The commitment to expand national interests in precision medicine was welcomed at UF Health and the College of Pharmacy, a national leader in implementing precision medicine approaches for drug therapy. Since it was established in 2011, and led by faculty in the College of Pharmacy, including Dean Julie Johnson, UF Health’s Personalized Medicine Program has expanded resources to support leading-edge research, clinical implementation and education programs around pharmacogenetics. A multidisciplinary team, supported by several grants from the National Institutes of Health, takes novel approaches to implement new patient care strategies and study methods that allow genetic information to be used as a routine part of patient care. Pharmacogenetic testing at UF Health is transforming how physicians treat cancer, heart disease, gastrointestinal disorders and pain management for patients by using genetic test results to select the right medication and optimal dose for each patient.

UF Health’s role as a national leader in pharmacogenomics research was evident at the American Heart Association Scientific Sessions in November 2015. UF researchers from the UF Health Personalized Medicine Program presented findings



Siegfried Schmidt, M.D.,
Ph.D., with Jeff Cruse

that showed how a quick genetic test can tell doctors early on whether a crucial anti-clotting drug, clopidogrel, will work in patients following a heart stent procedure. The study was among the first to examine the effect of genotype-guided treatment on cardiovascular outcomes after a heart procedure known as percutaneous coronary intervention, and showed that a pharmacogenetic-guided approach to selection of antiplatelet therapy led to significantly fewer deaths, heart attacks and strokes.

For two years, researchers tracked more than 400 UF Health patients who had genotyping and a coronary angioplasty procedure to open narrow or clogged heart blood vessels. The study found about 30 percent of the patients had a genetic deficiency that prevented them from fully activating clopidogrel. The genetic deficiency patients who were prescribed an alternative antiplatelet drug were found to have a reduced risk of heart attacks, stroke and death compared to the patients who took clopidogrel.

“Research continues to support the idea that genetic analysis can be used for a more effective and personalized health care experience,” said Julie Johnson, Pharm.D., dean and distinguished professor of the College of Pharmacy and director of the UF Health Personalized Medicine Program. “As precision medicine increasingly becomes part of the mainstream practice of medicine, patients will benefit through the early detection and prevention of disease, as well as more effective drug therapy regimens.”

“THE TEST THAT CHANGED MY LIFE”

Jeff Cruse’s genetic test results led to a decision to change his pain medication from hydrocodone to oxycodone. Almost immediately, Cruse noticed a reduction in his back pain.

“The switch in medicines helped me live my life in ways I never could before,” Cruse said. “My daughters did not want me to hold my grandchildren because I was so unstable. Now I am able to hold them and do more things with them.”

Cruse said he originally agreed to participate in the CYP2D6 study thinking that his information could help other patients. He never imagined that he would be the direct beneficiary.

“Taking that test has changed my life,” Cruse said. “It’s going to change a lot of people’s lives.”

McKenzie continued from pg. 4

“Going from 500 students at one campus to 1,200 students on four campuses was a big change,” said McKenzie. “I advocated to Dean [William] Riffiee that we would need student affairs coordinators at each campus, so that our office could maintain a consistent level of support for students across the campuses, and thankfully he agreed.”

As he enters retirement, McKenzie expects that many of the friendships and relationships he built at the College of Pharmacy will continue. He looks forward to traveling and spending more time with his wife, Lynda, and two children, Amanda and Mark. A Gator football season ticket holder, he wants to attend more UF athletic events and participate in cultural activities on campus. And he is leaving his interest in serving others to a higher calling.

“I am going to take things easy for a while and find something that I can become passionate about,” McKenzie said. “I will let that develop from a God-led, Christian perspective that will be helpful to other people.”

As he delivered his orientation welcome remarks that August morning, McKenzie’s message held special meaning for one member of the audience, his son, Mark, a member of the class of 2019. The moment represented a passing of the torch to Mike McKenzie’s future involvement with the College of Pharmacy.

“I am going to enjoy my new view of the College of Pharmacy in the coming years, as a parent of a pharmacy student.”

Millard continued from pg. 5

he loves.

“I am a jock at heart,” Millard said. “I grew up in Canton, Ohio, in the backdrop of the Pro Football Hall of Fame and enjoyed playing football, baseball and running track.

“My love of the Gators was infectious almost immediately after moving to Gainesville. Two years later, NFL Hall of Famer Emmitt Smith arrived on campus as a freshman, and my family used to get sub sandwiches from Emmitt when he worked at Joe’s Deli as a student.”

These experiences helped mold Millard into the die-hard Gators fan and sports enthusiast he is today. Similarly, his nearly 30 years of service to the College of Pharmacy helped him develop an affinity for UF and the outstanding research and graduate education programs that exist within the college.

“When people ask ‘why did you stay in administration for 21 years?’” Millard said, “I say it is because I was surrounded by good people that were spectacular to work with.

“I am proud of the growth we experienced as a college, but I am more proud of the fact that I have been viewed positively by many of the faculty staff and students at the college. People thought I was fair, honest and hardworking. That is how I want to be remembered.”

WPPD Program Celebrates 2,500th Graduate

Canadian pharmacist **Vincent**

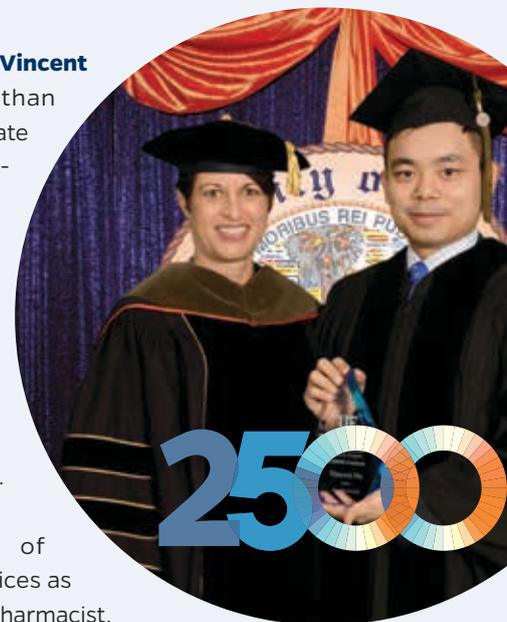
Ho traveled more than 1,100 miles to participate in his graduation ceremony at the University of Florida, and at the event, he collected the distinct honor of becoming the 2,500th graduate of the UF College of Pharmacy’s Working Professional Pharm.D. Program, or WPPD.

An employee of Hamilton Health Services as an intensive care unit pharmacist, Ho enrolled in the WPPD program in 2013. He had previously obtained a Bachelor of Science in Pharmacy degree from the University of Toronto in 2010 and wanted to expand his knowledge of critical care pharmacy through UF’s program. As a distance education student, he engaged in online learning activities, participated in virtual class discussions and traveled to weekend seminars with his cohort.

Ho’s experience follows a similar path as other WPPD graduates who held bachelor degrees in pharmacy and wanted to obtain a Pharm.D. degree. Established in 1994, the WPPD program has served licensed pharmacists in North America who are looking to stay competitive and expand their career potential.

“The WPPD program has emerged as the country’s most successful nontraditional Pharm.D. program and changed the lives and careers of thousands of pharmacists,” said Sven Normann, Pharm.D., director of the WPPD program and associate clinical professor of pharmacotherapy and translational research. “We celebrate this milestone and the incredible success of the program with Vincent and all of our 2,500 graduates.”

Joining Ho at his Dec. 18 graduation ceremony in Gainesville was his fiancée, Jessica Lam, a pharmacist at Taddlecreek Family Health Team in Toronto and a second-year student in the UF College of Pharmacy WPPD program.



WPPD Memories

This summer will mark the final entering class for the College of Pharmacy's Working Professional Pharm.D. program. The country's most successful non-traditional Pharm.D. program excelled under the leadership of Sven Normann, Pharm.D., and helped many grateful graduates achieve their dreams with a Pharm.D. degree. The following are notes we received when we announced the final class would enter in the summer.

R_x

Class of 2012

Name David Harlow

The UF College of Pharmacy's service to our profession through the WPPD program cannot be measured in simple terms. So many of the brave souls that worked to improve themselves in this ever-changing landscape of pharmacy are the very agents of change that will craft a new and very different future for the profession. I am personally grateful to those who had the foresight to create the program and to those that nurtured it through the years.

R_x

Class of 2006

Name Nicholas Zaksek

I am proud to say I am an alumnus of the WPPD program. The program provided me the skills and knowledge that enhanced all the experience and past education I had accumulated working as a pharmacist for 25 years. I would like to send a thank you and note of deep appreciation to the instructors and my mentor, Dave Farris, who were so dedicated and willing to share their knowledge.

R_x

Class of 2005

Name Marisa Marchese

It was an extreme pleasure to be a part of the WPPD class of 2005. The program gave me the confidence to utilize the knowledge I already had and allowed me to put myself out there to gain more experience in my field. Along the way came respect and that fueled more learning. It is with great gratitude that I say thank you for all the hard work dedicated to a great program that made a difference in so many people's lives.

R_x

Class of 2011

Name Carla (Kado) Forbes

Thank you for providing me with an amazing education through the UF WPPD program. The administrators, professors, facilitators and staff are truly dedicated to seeing you succeed in the program and beyond. I have also made lifelong friends through the program that I will forever cherish.

R_x

Class of 2003

Name Alan Portnoy

As a proud 2003 graduate of the program, I can tell you the outstanding education that I received in the WPPD program has served me well throughout my career. The WPPD program would not be the best in the country without the leadership that Sven Normann provided over the years. The three years I spent in the program were some of the best of my professional life.



UF Study Will Help Pharmacists to Prevent Dangerous Blood Sugar Levels During Hospital Stay

Researchers at the University of Florida College of Pharmacy and UF Health are turning to prediction algorithms, or risk scores, to prevent adverse drug events and better manage glucose levels of hospitalized patients. The scores are designed to run fully automated in a hospital's electronic health records and identify patients at risk for hypoglycemia and hyperglycemia.

A research team led by Almut Winterstein, Ph.D., chair and professor of pharmaceutical outcomes and policy, has been awarded a nearly \$300,000 grant from the Food and Drug Administration, or FDA, to study the risk score's effectiveness in drawing attention to patients at highest risk for hypoglycemia and hyperglycemia.

"The prediction models have been developed and validated in the two largest hospitals affiliated with the University of Florida and show excellent predictive performance," Winterstein said.

UF researchers from the College of Pharmacy's department of pharmaceutical outcomes and policy are partnering with bioinformatics specialists and hospital pharmacists at UF Health to integrate the statistical model into the electronic health records at UF Health hospitals in Gainesville and Jacksonville.

The computer program pulls data from more than 30 health variables associated with hypo- and hyperglycemia patients such as laboratory values, medications and foods consumed. The data are retrieved from a patient's medical record of the current and previous hospital stays and clinic visits during the past year. Each variable is weighted and assigned a multiplier to produce a patient's risk score. Hospital pharmacists use the scores to tailor glucose management strategies based upon the predicted outcome.

"The study predicts that patients with the highest risk score are most likely to suffer from hypoglycemia or

hyperglycemia," said Thomas Johns, Pharm.D., director for pharmacy services at UF Health Shands Hospital. "By providing pharmacists with this information that was previously not available, we are making hospitals safer and directing care activities toward those patients at most risk for preventable adverse drug events."

Glucose management is one of the most challenging drug issues in hospitals and a focus of a national action plan by the U.S. Department of Health and Human Services to reduce preventable adverse drug events. Insulin's narrow therapeutic range makes it susceptible to adverse events such as over- or under-dosing. As hospitals address new federal quality improvement measures, pharmacists will play a key role in managing drug-related issues and will require more real-time data for effective clinical decision making.

"Today's electronic medical record systems flag overdoses and dangerous drug interactions when physicians enter a medication order into a patient's record," Winterstein said. "Our software addition goes a step further and actually predicts an outcome. The challenge for pharmacists and health care providers is to take the predictive information and figure out how to effectively manage a patient's blood sugar levels when he or she is at an elevated risk."

At UF Health, pharmacists work closely with a team of caregivers, including physicians from the Division of Endocrinology, Diabetes & Metabolism, to manage patient glucose levels. In the next year, UF researchers will review if the risk scores presented to pharmacists translate into better management of blood sugar levels, and their potential impact on trends in hypoglycemia and hyperglycemia in hospitalized patients.



UF Health Researchers Find Novel Compounds Kill Biofilms, May Eliminate Persistent Bacterial Infections



Researchers at the University of Florida have developed potent new compounds with aquatic origins that may offer relief for the 17 million Americans affected by biofilm-associated bacterial infections annually.

The series of compounds known as the halogenated phenazines, or HPs, can kill dangerous bacterial biofilms present in recurring and chronic bacterial infections such as methicillin-resistant *Staphylococcus aureus*, or MRSA. The discovery may one day offer a cure for persistent bacterial infections that are largely resistant to conventional antibiotic treatments.

“Using synthetic chemistry, we have developed a series of marine antibiotic-inspired molecules that target a problem conventional antibiotics are unable to address because cells housed within bacterial biofilms are tolerant of them,” said Robert Huigens, Ph.D., an assistant professor in medicinal chemistry at the UF College of Pharmacy and lead investigator of a study published in the *Angewandte Chemie* journal’s online edition. “We have been aware that biofilms greatly contribute to infections over the past 20 years, but there are no biofilm-eradicating therapeutic agents available. Discovering and developing potent biofilm-killing agents is the first step toward eradicating biofilms in patients.”

Biofilms are bacterial communities that accumulate and attach to surfaces, including live tissues in humans. The bacterial cluster is often slow or nongrowing, encased in a protective layer of diverse biological molecules that form a ‘slime,’ and displays tolerance to every known class of antibiotic treatments available. Biofilm infections affect almost every tissue in the body, and without a way to eliminate the biofilm, chronic and sometimes fatal infections develop over time. Common biofilm infections include pneumonia in cystic fibrosis patients, chronic wounds and implant- and catheter-associated infections.

In the study, UF researchers tested in a laboratory the HP compound’s ability to eradicate biofilms of several major human pathogens, including MRSA; methicillin-resistant *Staphylococcus epidermidis*, or MRSE; and vancomycin-resistant *Enterococcus faecium*, or VRE. In addition, HP compounds proved to have potent antibacterial activity against the slow-growing pathogen *Mycobacterium tuberculosis*, or TB. HP compounds not only proved effective in eradication efforts but also selectively targeted the biofilms without breaking down the encasing cell membrane of healthy human cells.

Prior to his study, most compounds that have been able to kill biofilms operate by punching holes in cell membranes, Huigens said.

“Previous biofilm-eradicating compounds have been difficult to develop as they destroy cell membranes of both bacterial cells and healthy human cells,” he said. “Our discovery offers the potential for future drug therapies to selectively target the cells within biofilms without killing human cell types. This discovery could lead to a major breakthrough in biomedical research.”

The HP compounds developed by UF researchers originated in a marine environment. At the College of Pharmacy’s Center for Natural Products, Drug Discovery and Development, scientists are exploring the untapped biodiversity of the world’s oceans to aid in drug discovery and therapeutic treatments.

“In the center, we identify natural products with promising biomedical utility and oftentimes use them as a starting point to create compounds that are even more powerful or selective than what nature provides us,” said Hendrik Luesch, Ph.D., a professor and chair of the department of medicinal chemistry at the College of Pharmacy and the Debbie and Sylvia DeSantis chair in natural products drug discovery and development.

“This research is a prime example where the marine environment provided a template that upon further chemical modification resulted in excellent biofilm-eradicating agents. Through our expanding screening platform in the center, we were able to discover anti-tuberculosis activity for certain HP compounds, which opens up additional opportunities for drug development.”

A collaborative effort that included researchers from UF’s departments of medicinal chemistry, molecular genetics and microbiology, and epidemiology helped to learn more about the special biofilm-eradicating compounds that are also effective against TB. The team plans to continue synthesizing and developing new compounds originating from the world’s oceans in pursuit of drug therapies that will finally offer a cure for persistent bacterial infections.

Rob Huigens, Ph.D., left, works with third-year doctoral student Aaron Garrison in the research lab.



VIDEO LINK:

<https://www.youtube.com/watch?v=rHQq840Tbqs>

FY 2014–15 Annual Report in Brief

Scholarship and Research

Publications & Invited Presentations

Department	Refereed	Non-refereed	Books	Abstracts	In Press	Presentations
Medicinal Chemistry	21	0	1	35	4	19
Pharmaceutical Outcomes & Policy	31	4	0	28	5	23
Pharmaceutics	30	13	12	62	13	9
Pharmacodynamics	19	0	1	27	5	8
Pharmacotherapy & Translational Research	149	3	46	112	38	176
TOTAL	250	20	60	264	65	235



Funding by Department

Medicinal Chemistry	15%	\$1,837,356
Pharmaceutical Outcomes & Policy	8%	\$979,770
Pharmaceutics	22%	\$2,773,540
Pharmacodynamics	11%	\$1,345,158
Pharmacotherapy & Translational Research	44%	\$5,505,036
COLLEGE TOTAL	100%	\$12,440,860

Patent Activity

Department/Center	Apps Filed	Patents Issued
Medicinal Chemistry	18	11
Pharmaceutical Outcomes & Policy	0	0
Pharmaceutics	3	3
Pharmacodynamics	0	0
Pharmacotherapy & Translational Research	1	1
TOTAL	22	15

Funding by Category

Federal Agencies	50	\$8,759,983
Florida State Agencies	8	\$642,207
Corporations and Companies	41	\$2,487,654
Foundations & Societies	21	\$501,971
Other	10	\$49,045
TOTAL	130	\$12,440,861

Federal Agencies

AHCA/CMS	1	\$107,675
Dept. of Defense	2	\$19,481
Food and Drug Administration	7	\$1,402,806
HRSA	3	\$555,689
NIH	37	\$6,713,295
TOTAL	50	\$8,798,946

FL State Agencies

Department of Health	7	\$627,207
Florida State University	1	\$15,000
TOTAL	8	\$642,207



Corporate Awards

Aegerion Pharmaceuticals	3	\$50,922
AstraZeneca	1	\$274,523
Canon Inc.	2	\$116,100
Compleware Corporation	2	\$100,296
Eli Lilly & Co.	1	\$87,000
Florida Medical Quality Assurance	1	\$94,740
Gilead Sciences	4	\$189,537
Glaxo SmithKline Inc.	3	\$219,545
Golin-Harris International Inc.	1	\$5,000
Griffols Worldwide Operation	1	\$116,783
Hoffman La Roche Inc.	1	\$290,245
Janssen Research and Development	1	\$197,428
Micromedic Technologies	1	\$52,440
Movartis Pharmaceutical Corp.	2	\$11,412
Parexel International Crop.	4	\$23,976
Pfizer Inc.	2	\$101,094
Pharmaceutical Research Association	5	\$29,312
RAJ Enterprises of Central Florida	1	\$75,000
Roche Diagnostics Corp.	1	\$12,083
Takeda Pharmaceuticals International	2	\$232,000
Teva Pharmaceuticals USA	1	\$68,219
Vertex Pharmaceuticals	1	\$140,000
TOTAL	41	\$2,487,654

Awards from Foundations & Societies

Adventist Health System Sunbelt	1	\$29,516
American Cancer Society	2	\$55,469
American Assoc. of Colleges of Pharmacy	1	\$9,900
American Foundation for Pharmaceutical Ed.	1	\$3,250
American Heart Association	3	\$185,500
Critical Path Institute	2	\$0
Florida Clinical Practice Association	1	\$20,000
Florida Health Equity Research Institution	1	\$38,829
National Academy of Sciences	1	\$25,000
Oak Ridge Association of Universities	2	\$5,800
Partners in Health	1	\$13,000
Shands Teaching Hospital	3	\$21,459
UF Foundation	1	\$25,000
University Space Research Association	1	\$69,248
TOTAL	21	\$501,971

Other

Miscellaneous Donors	2	\$500
Multiple Sponsors	5	\$16,395
University of Miami	1	\$21,750
University of Minnesota	1	\$6,000
University of South Alabama	1	\$4,400
TOTAL	10	\$49,045



Dear Alumni and Friends,

This past summer, Robert Crisafi, Ph.D., '56, had a vision to establish a creative scholarship challenge that would financially support the best and brightest future students at the College of Pharmacy, while helping engage our many alumni and friends.

“Dr. Bob” and his family have been longtime supporters of the college, and he is passionate about giving back to move his alma mater forward.

Because of Dr. Bob’s vision and financial commitment to match all dollars raised up to \$10,000, we challenged each of you to make a gift during a 10-day period. All gifts made during the challenge support recruitment and retention of extraordinary prospective students, a top priority for the college. This challenge was the first of its kind at the College of Pharmacy and it quickly became a huge success — thank you to those who rose to the challenge!

With Dr. Bob’s contribution, creativity and passion, we implemented the Crisafi Challenge in the fall around our Alumni BBQ Reunion. Thanks to the generosity of our alumni and friends, our initial goal of matching Dr. Bob’s \$10,000 gift was not only met, it was doubled. A total of \$20,143 was donated by alumni and friends, making our grand total more than \$30,000! The College of Pharmacy is now able to utilize these funds and award Crisafi Scholarships to multiple, deserving students upon their acceptance into the college. Dr. Bob has made a commitment to furthering the college’s needs again this year, so be on the lookout for information about our 2016 Crisafi Challenge and how you can make an impact.

In addition to the Crisafi Challenge and the ongoing White Coat Fundraiser, the Development and Alumni Affairs office is planning college events where we hope to see you all this year, including FPA, FSHP and our 30th Annual Alumni BBQ Reunion in Gainesville on Sept. 10.

Go Gators!

Elizabeth Zipper

Director of Development and Alumni Affairs



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Thank you also to our Crisafi Challenge donors who chose not to be recognized.

UF College of Pharmacy

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Robin Derby, Minh Huynk,
Duane Morehouse

Biotechnology Education Scholarship

Tina Chen, Marc Cruz

**Blake and Cassidy Lawrence
Scholarship**

Kayode Paul

**Cardinal Health Community Pharmacy
Scholarship**

Jessica Graber, Seung Pyo

Cardinal Health Scholarship

Esther Lily Garcia

Charlotte Liberty Scholarship

Lauren Alfonso, Susana Alvarez, Saly
Azzo, Nora Bairagdar, Laporshia Boothe,
Alexander Branton, Hayley Cooper,
Francesca Corsini, Kiria Cuevas, Houda
Dardari, Farris Hasan, Stephanie Evanoff,
Sara Fawaz, Lydia Fernandez, Evelyn
Franco, Yesenia Franco, Eldin Kalac, Amy
Kernick, Jennifer Liberato, Joshua McBride,
Justin Muklewicz, Dan-Tam Nguyen, Tho
Nguyen, Stephanie Orlando, Archanakumari
Patel, Jeanne Marie Querubin, Rachel
Shaddock, Nanjoo Shin, Tiet Tavish,
Angelina Villega, Michelle Weaver

**Community Pharmacy Business and
Entrepreneurial Endowment**

Elizabeth Powell, Taylor Schenley,
Jayme-Jo TenBieg

CVS Pharmacy Scholarship

Eduardo Diaz, Maksim Dudenkov,
Yesenia Franco, Justin Muklewicz

Debbie DeSantis Endowment

Karen Fong, Jade Hefler, Aklil Hiruy

**DuBow Family Graduate Student
Education Fellowship Fund**

Chintan Dave

**D.W. Ramsaur Distinguished Scholar
Award**

Michael Napoleon

Eckerd Pharmacy Scholarship

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Danielle Bley, Gena Burch, Ali Gortemoller,
Austin Hewlett, Heather Langford, Ted Lee,
Quynh Nguyen, Mark Priddy, Jayme-Jo
TenBieg, Keon Thomas, Khanh Trang Vo,
Tina Wang, Robert Wilkinson

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Melanie Cooper

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Hannah Brown

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Jeanne Scheibler Scholarship

Kristine Friedel, Lauren Holliday, Sadia
Khan, Stanley Luc, Gregory Rodriguez

**Johnston Scholastic Achievement
Scholarship**

Stephanie Johnson

Kazarian Family Scholarship

Amy Kernick

Lamar and Hilda Massey Scholarship

Ryan Moale

Laura and Philip Dean Scholarship

Balarama Rico

**Leigh Medal for Outstanding
Leadership**

Albert McKee

**Lilly Medal for Scholastic and
Professional Achievement,
Leadership and Ethical Conduct**

Patrick Leffers

Lydia Foote Service Award

Justin Desiongco

Monteen Johnson Gold Merit Award

Abigail Russell

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Scholarship**

Paige Bishop, Julia Bosacki

Neal Family Scholarship

Matthew Cook

Oscar Araujo Alumni Scholarship

Meghan Bloxam, Marlo Pagano, Seung Pyo,
Kayla Suskauer, Alyssa Webb

**Perry Foote Award for Distinguished
Scholarship, Service and Leadership**

Amy Kiskaddon

**Randolph Andrew Cone Memorial
Scholarship**

Julian Leland

Robert Littler Scholarship

Stefani Raghunandan

**Russ and Carol Blaser Memorial
Scholarship**

Judith John, Megan Morgan

Valerie Calkin Griffith Scholarship

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Victor Micolucci Scholarship

Elizabeth Torres

**Vogel Anderson Exceptional Leader
Scholarship**

Joshua Welch

**Walgreens Company Diversity
Award/Scholarship**

Ronchell Drains, Renad Abu Sawwa

Wal-Mart Scholarship

Elizabeth Duong, Amanda Mott, Tyler Spink,
Elizabeth Torres

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January 1 - December 31, 2015

The Dean's Circle recognizes our alumni and friends who support the college with an annual gift of \$500 or more. Private donations provide the college with flexibility to offer leadership opportunities for our students and educational initiatives for our faculty. Generous support also helps to ensure that the college's ceremonial traditions continue despite the economy or state allocations.

Your gift is the fuel that allows us to move forward and adapt to the ever-changing health care environment and keeps the Pharmacy Gator Nation in the top tier of colleges in the nation. Thank you!

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April & Michael Johnston
Maureen Keller-Wood & Charles Wood
Matthew & Jessica Kirchoff
Jennie Lee
Patrick Leffers
David & April Leonard
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Cheryl Nicolay-Giacomuzzi & Paul Giacomuzzi
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Rebecca Quarles & James Ogg
Sharon Ramsey
Nikki Rebich-Curtis
Shane Reilly-Rogers
Caralyn Reyenga
Lynn Richards
Donald & Mary Roberts
Kelly Ross
Danielle Ryan
Megan Savage
Jonathan Schelfhout
Jessica Schneider
Michael Schneider
John Schriener
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Pamela Whitmire
Melanie Williams
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Benjamin & Nancy Wong
Ivy Xing
Anna Yeung
Jaclyn Yodice
Renee & Chris Zawistowski

Names are listed as they appear on checks or correspondence. We have made every effort to acknowledge each donor giving \$500 or more. If your name is missing, please notify us so we may correct our records. We do apologize for any oversight and want to assure you it was unintentional.

4PD Giving Challenge

The 4PD Giving Challenge is a unique campaign for seniors to make a special commitment that supports students following in their footsteps. At the 2015 commencement ceremonies, we recognized philanthropic students who pledged their support for the next five years. Across all campuses, our newest Gator pharmacists pledged a total of \$57,865. The money raised from the challenge is used to support professional development, student events and individual campus needs.

There were a total of eight class representatives that led their classmates in the challenge and had the honor of presenting Dean Johnson with a check at both commencement ceremonies on May 4, 2015.

TOP PHOTO: Students from the College of Pharmacy's distance campuses present the 4PD Giving Challenge check to Dean Johnson. Students pictured, l to r, include Randi Searcy (JAX), Heather Wilson (JAX), Danielle Torres (ORL), Jaclyn Yodice (ORL), Albert McKee (STP) and Joseph Haley (STP).

BOTTOM PHOTO: Cody Hampton, center, and Mitch Purse, right, from the Gainesville campus present the 4PD Giving Challenge check to Dean Johnson.

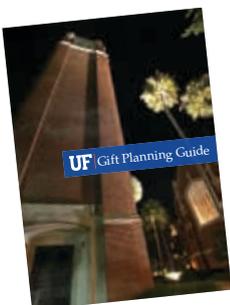


"The University of Florida gave me a career I thoroughly enjoyed for 43 years," says Paul Ackerman (BSP '69), who, with his wife Charity (BSP '70), used stock to set up a trust that enables them to receive an annual income stream as well as ultimately support UF pharmacy students. "I give back for many reasons. Perhaps most important, because I want UF to continue to be a top notch university and help others."

YOUR SCHOOL.

YOUR LEGACY.

GATORS FOREVER.



This FREE GUIDE explains all the ways your planned gift to the College of Pharmacy could touch lives for generations to come. Ask for a copy today: ZIPPER@COP.UFL.EDU or call 352-273-6605.



2015 Gator Pharmacy ALUMNI REUNION

On Nov. 7, the College of Pharmacy hosted its 29th Annual Alumni Reunion BBQ in the HPNP Courtyard. The event was attended by 275 alumni, faculty, students and friends of the college who enjoyed breakfast as well as barbecue, along with activities for kids and a selfie booth for attendees to take pictures with classmates. The fun-filled atmosphere proved to be a great pregame event prior to Florida's homecoming victory over Vanderbilt to clinch the SEC East Division title.



1) Carmen Prescott and Michael Schneider '73; 2) Sarah Babbitt, Scott Rothenberg '07, Jessica Wolf, Amy Rodriguez, Luis Rodriguez '07, Anthony Menezes '06, and Mike Babbitt; 3) Anita Thompson '54, Elizabeth Lima, Julie Johnson, JoAnn Nuccio '78, and Kimberly Jackson '13; 4) Carl Allison '76, JoAnn Nuccio '78, and Mike McKenzie '72; 5) Tom Munyer '71 and '76 and Paul Doering '72 and '75; 6) Heidi Edwards and Lee Edwards '02

Honors & Distinctions



Dr. Mobley Named College of Pharmacy 2014-15 Teacher of the Year

William Cary Mobley, Ph.D., a clinical associate professor of pharmaceuticals, was named the College of Pharmacy 2015 Teacher of the Year. The award is designed to encourage and reward excellence, innovation and effectiveness in teaching. It is the college's highest recognition of teaching excellence.

Mobley served as the course coordinator for Dosage Forms 1 and 2 and Integrated Case Studies I-IV. He also taught the Pharmaceutical Skills Lab II course in year three. Across these courses, students praised his passion for the subject and his excellent organization in lecturing and course delivery. Outside the classroom, he is known to have an inviting demeanor and passion that helps students reach their maximum potential. He has taken a scholarly approach to better understand how to teach critical thinking, problem solving and clinical reasoning. Mobley also received College of Pharmacy Teacher of the Year honors in 2007.

Faculty Honors



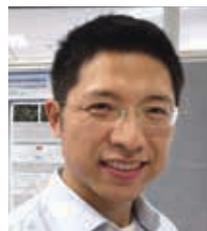
Lindsey Childs-Kean, Pharm.D., MPH, BCPS, a clinical assistant professor at the College of Pharmacy's St. Petersburg campus and 2010 graduate of the college, was presented with the Florida Society of Health-System

Pharmacists' Forerunner Award. The award honors an individual who, through his or her dedication, interest and enthusiasm, has made a significant contribution to the practice of pharmacy in Florida. She was selected based on her accomplishments in professional practice, leadership, education and research within her first ten years of practice.



Rhonda Cooper-DeHoff, Pharm.D., M.S., an associate professor of pharmacotherapy and translational research, was awarded the 2015 Distinguished Associate Award by the American College of Cardiology. The award recognizes

a non-physician member for his or her outstanding contributions to the college and the field of cardiology that have nurtured the American College of Cardiology's team approach to cardiovascular care.



Yousong Ding, Ph.D., an assistant professor of medicinal chemistry, was named one of the 35 Ralph E. Powe Junior Faculty Enhancement Award recipients by Oak Ridge Associated Universities. The award is intended to enrich the research

and professional growth of young faculty and result in new funding opportunities. It will be used to fund the research he is leading to develop novel nitration biocatalysts.



Oliver Grundmann, Ph.D., a clinical associate professor of medicinal chemistry, has received the Janet K. Poley Award for Leadership and Innovation in Distance Education during the American Distance Education Consortium 2015 symposium at Oregon State University. The recognition goes to an individual from higher education who has — at an institutional or national level — set and met innovative goals focused on online education and has been strategic in the planning, development, implementation and sustainability of programs aligned with the institutional mission.



Julie Johnson, Pharm.D., dean and distinguished professor, was named as one of Thomson Reuters Highly Cited Researchers of 2015. The honor recognizes some of the world's most influential scientific minds and is earned by being among the top one percent most cited researchers in a subject field. About 3,000 researchers globally earned the distinction by writing the greatest number of reports officially designated by Essential Science Indicators as Highly Cited Papers. Thomson Reuters featured her in the pharmacology and toxicology category.



Maureen Keller-Wood, Ph.D., a professor and chair of pharmacodynamics, was named associate dean for research and graduate education at the College of Pharmacy on July 1. In her new position, she is working with faculty to increase their research productivity and funding, overseeing the graduate research education programs and increasing collaborative grants within the college. She is also serving on the college's Executive Council and the Research Deans Committee at the university and UF Health levels.



Dr. Karen Sando Selected as 2015-16 Teacher of the Year

Karen Sando, Pharm.D., a clinical assistant professor in the department of pharmacotherapy and translational research, has received the College of Pharmacy's highest teaching honor with her selection as the 2015-16 Teacher of the Year.

The award recognizes Sando for her excellence, innovation and effectiveness in teaching. In nomination letters, her students noted their appreciation for her enthusiasm in the classroom and the encouragement she provides students to reach their potential. Sando lectures and supervises students in ambulatory practice pharmacy as well as coordinating the new skills lab course for first-year students. In addition to her teaching duties, she maintains a practice site at UF Health Family Medicine at Old Town and directs a PGY-2 residency program in ambulatory care.

A graduate of the UF College of Pharmacy, she joined the faculty in 2010. She has received multiple teaching awards, including the 2012 American Association of Colleges of Pharmacy Innovations in Teaching Award for a novel approach to teaching interview skills and a 2015 faculty enhancement opportunity award to support completion of a program for health professions educators at the Harvard-Macy Institute.

Faculty Honors



Jatinder Lamba, Ph.D., M.Sc., an associate professor of pharmacotherapy and translational research, accepted an invitation to serve as a member of the Xenobiotic and Nutrient Disposition and Action Study Section, Center for Scientific Review. Members are selected on the basis of their demonstrated competence and achievement in their scientific discipline as evidenced by the quality of research accomplishments, publications in scientific journals, and other significant scientific activities, achievements and honors.



Lawrence J. Lesko, Ph.D., F.C.P., a professor of pharmaceuticals, was honored with an Agilent Thought Leader Award. Presented by Agilent Technologies Inc., the award promotes fundamental scientific advancement by contributing financial support, products and expertise to the research of influential thought leaders in the life sciences, diagnostics and chemical analysis. Agilent's award will support Lesko's research into pre-clinical toxicological assessments of new medicines.



Hendrik Luesch, Ph.D., a professor of medicinal chemistry and the Debbie and Sylvia DeSantis Endowed Chair in Natural Products Drug Discovery and Development, was appointed chair of the department of medicinal chemistry at the College of Pharmacy on July 2. In his 10 years at the University of Florida, he has ascended through the academic ranks to a full professor position. His research program focuses on marine natural products drug discovery. He is one of two professors at UF appointed as a UF Foundation Preeminence Term Professor.



Folakemi T. Odedina, Ph.D., a professor of pharmacotherapy and translational research, was one of 34 faculty members named UF Research Foundation Professors for 2015-18. The recognition goes to faculty who have a distinguished current record of research and a strong research agenda that is likely to lead to continuing distinction in their fields.



Steven Smith, Pharm.D., MPH, BCPS, a clinical assistant professor of pharmacotherapy and translational research, was presented with the American College of Clinical Pharmacy, or ACCP, 2015 New Investigator Award in October. The award recognizes a college member less than six years since the completion of training whose research program is especially noteworthy in its theme and productivity. Smith's research and clinical practice are in the area of cardiovascular pharmacotherapy and hypertension. He accepted the award and gave a 30-minute presentation on his research at ACCP's Global Conference on Clinical Pharmacy in San Francisco.



Almut Winterstein, Ph.D., a professor of pharmaceutical outcomes and policy, was named chair of the department of pharmaceutical outcomes and policy on Jan. 1. She had served as interim chair of the department for 15 months and her permanent appointment followed a national search. Her research interests focus on drug safety and effectiveness of approved drug products, and the evaluation and improvement of medication use.

UF Alumni Association Selects **DR. HARTMUT DERENDORF** as its 18th Distinguished Alumni Professor



The University of Florida Alumni Association has named Hartmut Derendorf, Ph.D., a distinguished professor of pharmaceuticals, as its 18th Distinguished Alumni Professor.

In the role, Derendorf is representing UF as an ambassador of the university's academic and research achievements to the Gator Nation. In addition, he is serving on the Alumni Association Board of Directors for a two-year term and working with the Alumni Association in various programs. He joined Paul Doering, M.S., emeritus distinguished service professor, as the only College of Pharmacy faculty to receive the prestigious Distinguished Alumni Professor Award.

Derendorf arrived at the University of Florida from Germany in 1981 with the intention of staying for just two years. Thirty-four years later, Derendorf's affinity for the Gator Nation and its unique spirit has only grown. He represents that spirit and the University of Florida proudly in his travels around the globe as distinguished professor, V. Ravi Chandran Professor of Pharmaceutical Sciences and chair of the department of pharmaceuticals at the UF College of Pharmacy.

A prolific writer and speaker, Derendorf has published over 440 scientific publications, presented more than 850 times at national or international meetings and published ten textbooks in English and German. He is editor or associate editor of the *Journal of Clinical Pharmacology*, *European Journal of Pharmaceutical Sciences*, *International Journal of Clinical Pharmacology & Therapeutics*, *International Journal of Antiinfective Agents* and *Die Pharmazie*, and serves on the editorial board of several other journals.

He received UF's Teaching Improvement Award in 1995 and the HHMI Distinguished Mentorship Award in 2008. His other awards include the UF Research Foundation Professorship in 2002, the CVS Pharmacy Endowed Professorship from 2007 to 2013, the International Educator of the Year Award from 2004 to 2007, and the UF Doctoral Advisor/Mentoring Award in 2009. During his tenure at UF, he has supervised more than 50 Ph.D. students.

Internationally, Derendorf's leadership in the fields of biopharmaceutics, pharmacokinetics and pharmacodynamics has resulted in numerous awards and leadership positions. He has served as President of the American College of Clinical Pharmacology, or ACCP, from 2006 to 2008 and President of the International Society of Antiinfective Pharmacology from 2004 to 2006. He won the McKeen-Cattell Award for the best publication in *J. Clin. Pharmacology* in 1994 and the Faculty Award of the University of Utrecht in 2005. In 2003, he was awarded the Nathaniel T. Kwit Distinguished Service Award of ACCP and the Research Achievement Award in Clinical Science of the American Association of Pharmaceutical Sciences, or AAPS. He is a Fellow of AAPS and ACCP as well as a former review panel member of the NASA Human Research Program. In 2010, he was awarded the Volwiler Award of the American Association of Colleges of Pharmacy, or AACCP, as well as the ACCP Distinguished Investigator Award, the highest research awards of both organizations. In 2013, he was awarded the First Leadership Award of the International Society of Pharmacometrics. In 2015, he received the Merit Medal of the Westphalian Chamber of Pharmacy as well as the ACCP Mentorship Award.

As impressive as these accolades are, the selection committee was even more touched by Derendorf's personal connections and dedication to UF. He met his wife, Kerry Estes, Ph.D. '82, during his postdoc years as she pursued her own Ph.D. in pharmaceutical sciences. In fact, Derendorf said that when he arrived in Gainesville, he fell in love twice — once with the University of Florida and, more importantly, with his wife. They married and raised two sons, Kevin, BSME '08, and Karsten, MACC '13, who also went on to graduate from the University of Florida. Derendorf proudly refers to them as "a Gator family."



VIDEO LINK:

<https://www.youtube.com/watch?v=5L9UobNDwV4>



Renad Abu-Sawwa honored with Extraordinary Student Volunteer Award

College of Pharmacy student Renad Abu-Sawwa earned the Extraordinary Student Volunteer Award at the 2015 UF Impact Awards. The award recognizes a student who has been consistently dedicated to serving the University of Florida and local communities during the past year. Abu-Sawwa works with a local not-for-profit, the Muslim Care Clinic. In March 2014, the clinic opened a pharmacy department in Jacksonville with only the help of Abu-Sawwa and Robin Moorman Li, Pharm.D., BACACP, assistant director and clinical assistant professor of pharmacotherapy and translational research. Within a year, the pharmacy department has grown into a program that accommodates up to four students and one pharmacist every Sunday, providing care to needy patients through medication reconciliation and counseling services. The clinic embodies Abu-Sawwa's passion for patient advocacy, collaborative interprofessionalism and lifelong learning, while fulfilling her love for giving back to the community.

UF Chapter named FSHP Student Society of the Year

The Florida Society of Health-System Pharmacists, or FSHP, recognized the College of Pharmacy's Gainesville student chapter as its Student Society of the Year during FSHP's annual meeting in Orlando. Aklil Hiruy, a third-year Pharm.D. student and chapter president, accepted the award on behalf of nearly 20 University of Florida student representatives that attended the event. The Gainesville student chapter took home the top honors for the first time in an award category that debuted last year. The chapter aims to promote and engage students in hospital and health-system pharmacy careers and is an officially recognized student society of the American Society of Health-System Pharmacists.



St. Petersburg Students Take Home Honors at Kappa Epsilon Convention

The Alpha Omega chapter at the College of Pharmacy's St. Petersburg campus received an honorable mention award for its Pharm-CORP National Project at the Kappa Epsilon National Convention. Pharm-CORP, or Pharmacy Career Opportunity Recruitment Project, was designed to educate high school students about pharmacy school and the pharmacy profession. The Kappa Epsilon awards committee recognized the strength of the Alpha Omega chapter's work with Pharm-CORP and the outstanding effort demonstrated by students attending a distance campus.





College of Pharmacy Hosts 29th Annual Research Showcase

The research talents of nearly 70 College of Pharmacy graduate and professional students and postdoctoral fellows were on display Jan. 22 at the 29th Annual Research Showcase competition. The event featured eight oral presentations from graduate students, more than 60 poster presentations, a keynote address and an awards ceremony. The eight graduate students selected for oral presentations were finalists in their respected divisions.

Rashmi Barbhuiya, Ph.D., a clinical pharmacologist and CEO of Dynametrics LLC, delivered the keynote remarks. His presentation, titled “Precision Medicine, R&D Productivity & Affordability of Medicines — Key Drivers of Pharma R&D,” focused on the recent trends affecting the pharmaceutical industry and solutions for addressing pressing worldwide needs. He also shared some lessons he learned as a postdoctoral fellow at the University of Florida College of Pharmacy in 1978-79, including how insights from his training at UF helped him in developing an anti-HIV drug in a timely manner at a time of great need.

During the award ceremony, Dean Julie Johnson, Pharm.D., announced that the Senior Division level of the oral competition would be renamed the William J. Millard Division, in honor of the former associate dean and professor of pharmacodynamics at the College of Pharmacy. For 21 years, Millard organized the college’s Annual Research Showcase and saw the event grow from a dozen poster entries to more than 60. He retired from the college on Dec. 31, 2015.

Sponsors for the event included Dr. Robert A. and Phyllis Levitt (class of 1961), who sponsor the Levitt award, as well as the Debbie Klapp Memorial Endowment and PK-P’Dyne, Inc. (Dr. Kerry Estes).

In Memoriam

- | | |
|--|----------------------------|
| Ira B. Adams Jr. '50 | Roberta A. Hamilton '54 |
| Rana A. Ahson '81 | Douglas G. Holland Jr. '60 |
| Elda F. Alcalde '69 | Joseph M. Hutnik '04 |
| William D. Allen '58 | Ronald Z. Kaler '64 |
| Joseph Tre Alvarez '66 | Harold L. Kemp '52 |
| Robert F. Ansbacher '55 | Russell Lambros '49 |
| Dwight Bachelder '54 | Oliver M. Littlejohn '53 |
| William N. Barry Jr. '51 | Jack R. Lockwood Sr. '50 |
| CAPT Edward A. Basdekian, USN (Ret.) '60 | Stephen G. Logsdon '11 |
| John F. Bass Jr. '50 | Andrew J. Lytkowski '52 |
| John G. Bearden '42 | Cindy M. Maggio '85 |
| Stanley D. Bornmann '59 | Joseph B. Maisel '54 |
| E. Coleman Brewer '55 | Sol S. Maizel '43 |
| Marcus E. Brewster III '82 | George B. Merrill Jr. '41 |
| Richard A. Canady '59 | Charles W. Moses '54 |
| Terry J. Canfield '70 | Rex E. Myers III '79 |
| Aleida V. Carrau '76 | Albert A. Novak Jr. '50 |
| James E. Clark Jr. '64 | Harry J. Patton '63 |
| Andrew I. Cobo '74 | Raymond M. Peoples '05 |
| Evelyn B. Cook '65 | Ernesto S. Perez '67 |
| William R. Cook '67 | William G. Perry '74 |
| Thomas R. Daniel '61 | Clarence G. Porter Jr. '50 |
| Gordon E. Entner '79 | Robert P. Reid Jr. '79 |
| George E. Felt '49 | Laurie E. Rock '89 |
| Carolyn F. Ferencz '72 | Pedro Saavedra '07 |
| Thomas C. Fertic '38 | Linda G. Stevenson '82 |
| David M. Fisler '58 | Charles D. Stidham '56 |
| James C. Fite '07 | Howard L. Streit '73 |
| Donald S. Flowers Sr. '52 | Kevin D. Turley '81 |
| Joseph Graham Jr. '52 | Fred R. Usher Jr. '56 |
| Bruce M. Griffin '82 | Eugene L. Walker '49 |
| Charles S. Haick '65 | John C. Weir '61 |
| Dixielee L. C. Hall '96 | Judson B. West Jr. '52 |
| | Price W. Weybrecht III '75 |
| | Anthony C. Winkles '98 |

THE COLLEGE OF PHARMACY

OUTSTANDING PHARMACY ALUMNUS AWARD



MARK HOBBS, BSPHARM, '81, president and owner of Hobbs Pharmacy in Merritt Island, was honored with the 2015 University of Florida College of Pharmacy's Outstanding Alumnus Award during the spring 2015 commencement ceremony. The award is presented each year to an alumnus who has made significant contributions to the pharmacy profession.

Hobbs began working at his family's pharmacy business in Brevard County following graduation. His dad, Gary, founded Hobbs Pharmacy in 1964 to serve residents of Florida's Space Coast. Mark took the reins of the family business 25 years later and has led the multi-faceted health care operation that was named the 2011 U.S. Small Business Association Jeffrey Butland Family Owned Business of the Year. It is one of the leading independent pharmacies in Florida and has brought innovative compliance, immunization and custom compounding services to the Space Coast. Hobbs is also co-owner of Brevard Medical Equipment, a medical/surgical supply company based on Merritt Island.

A past president of the Florida Pharmacy Association, Hobbs has served in several leadership roles, including chairman of the Florida Council for United Drugs, and has been granted Fellow status in the American Pharmaceutical Association and the American Society of Consultant Pharmacists. His peers have recognized him with numerous honors, including the Marion Merrel Dow Distinguished Young Pharmacist Award, the Frank Tobak Consultant Pharmacist of the Year and the American Pharmaceutical Association Good Government Pharmacist of the Year. He is an adjunct professor for the UF College of Pharmacy and served as past chair of the Dean's Leadership Council.

UF DISTINGUISHED ALUMNUS AWARD



DEBBIE DESANTIS, BSPHARM, '82, received the University of Florida's Distinguished Alumnus Award during the College of Pharmacy's spring 2015 commencement ceremony. The award recognizes an alumnus of UF that has demonstrated a life of service and philanthropy, and, in particular, has excelled in his or her chosen field or profession.

DeSantis began her career in the chain pharmacy industry and rose to positions of chief and district supervisor. She joined her father's company, Rexall Sundown Vitamins, where she became vice president of operations. In 1997, she started the product development department at the company, investigating new products for both efficacy and safety with clinical studies. Eventually, she became senior vice president of product development for Nutricia USA, the parent company for Rexall Sundown Vitamins, General Nutrition Center, Met-Rx and Worldwide Protein.

DeSantis' professional interest in the field of pharmacognosy, the study of natural products, stems from her belief that this is a foundational pillar of the pharmacy profession. While a student at UF, she was taught by Koppaka V. Rao, a professor known for his knowledge of medicinal plants and folk medicine. Her interest in natural products and her exceptional career combining the best of traditional and modern pharmaceutical practice, led to several transformative gifts for the College of Pharmacy. Her generosity and many contributions to the college have benefited students and faculty and enhanced research and educational efforts.

HONORS EXCELLENCE

UF HONORARY DEGREE RECIPIENTS

The University of Florida honored two supporters of the College of Pharmacy with honorary degrees in 2015. Other than an earned doctorate, the greatest recognition UF can give an individual is an honorary degree. The awarding of an honorary degree is recognition of eminent achievement in scholarship or high distinction in public service which exemplifies the purposes and ideals of the University of Florida.



PHILLIP FROST, M.D.

Phillip Frost, M.D., chairman and chief executive officer of OPKO Health Inc., a multinational biopharmaceutical and diagnostic company headquartered in Miami, received an honorary Doctor of Science degree from the University of Florida during the fall 2015 commencement ceremony. A highly regarded physician, scientist and business executive, Frost has made monumental contributions to human health and the pharmaceutical industry through his efforts to bring beneficial drug products to the market and increase available health care options. He has collaborated with the UF College of Pharmacy's Center for Drug Discovery and the department of pharmaceuticals in the development of numerous pharmaceuticals in the U.S. and Europe. A generous supporter of the arts, music, technology and science, he and his wife, Patricia, have greatly contributed to Florida's economic, educational and cultural strengths through their philanthropic efforts.



YUICHI SUGIYAMA, PH.D.

The University of Florida presented Yuichi Sugiyama, Ph.D., a former professor and chair of the department of molecular pharmacokinetics at the University of Toyko and friend of the UF College of Pharmacy, with an honorary Doctor of Science degree during the spring 2015 commencement ceremony. Sugiyama is recognized as one of the world's top pharmaceutical scientists and a world leader in pharmacokinetics and molecular biology of membrane transporters, drug metabolism and pharmacology. He has authored more than 700 original articles, reviewed articles and book chapters and given invited lectures at 200 international conferences. He has had an important and long-lasting effect on research and education at UF by partnering with College of Pharmacy leaders to support the biannual Retrometabolism and Global Gator meetings.

Global Gator Meeting Highlights College of Pharmacy's Worldwide Impact

The College of Pharmacy's global reach was evident during the 10th Global Gator meeting that took place in the Netherlands on June 5-6. More than 170 current and former faculty, postdoctoral students, graduate students, interns and staff, primarily from the College of Pharmacy, attended the event that included participants from as far away as Japan, Brazil and India. The meeting featured the 10th Symposium on "New Developments in Clinical Pharmacy and Clinical Pharmacology" with presentations covering current scientific and professional topics in medicine and pharmacy. The Global Gator Award, which is presented at these meetings to an individual who represents the Gator Spirit internationally, was awarded to Paul Doering, M.S., emeritus distinguished service professor in pharmacotherapy and translational research, for his tremendous impact on international pharmacy education over the last 25 years.



2016 COLLEGE EVENTS

- **Commencement**
May 2 – Gainesville, FL
- **Florida Pharmacy Association
Annual Meeting**
June 30-July 3 – Fort Lauderdale, FL
- **American Association of Colleges of
Pharmacy Annual Meeting**
July 23-27 – Anaheim, CA
- **Florida Society of Health-System
Pharmacists Annual Meeting**
August 5-7 – Orlando, FL
- **Alumni Reunion BBQ**
September 10 – Gainesville, FL
- **American College of Clinical Pharmacy
Annual Meeting**
October 23-26 – Hollywood, FL
- **American Association of
Pharmaceutical Scientists
Annual Meeting**
November 13-17 – Denver, CO
- **American Society of Health-System
Pharmacists Midyear Clinical Meeting**
December 5-8 – Las Vegas, NV