To advance the pharmacy profession and patient-centered care across Ohio and around the globe through innovative teaching and practice, groundbreaking research, and transformative outreach and engagement.
MESSAGE FROM THE DEAN

In July 2018, I was honored to be reappointed as dean. Since then, we have spent the 2018-19 academic year undergoing strategic planning for the next five years. This has been a great opportunity to reflect on what we’ve accomplished over the past five years, strategize where we want to be and check in with our stakeholders – students, faculty, staff, alumni and friends. What I’ve observed is that our college’s mission has largely remained the same – to improve patient-centered care through advanced pharmacy practice, research, teaching and engagement – but the ways in which we work to accomplish this have evolved. Here are just a few of the advances we have made this past year:

1. We have developed cutting-edge educational spaces for our students and faculty by renovating our classrooms and counseling suites. We also invested in our research laboratories and student skills lab facilities. We now have an exceptional Integrated Pharmacy Practice Laboratory and a new state-of-the-art 150-seat technology-enhanced classroom.

2. We recruited Dr. Blake Peterson to be the new chair of the Division of Medicinal Chemistry and Pharmacognosy. The hiring of Dr. Peterson was made possible with the help of our alumni and The Ohio State University Comprehensive Cancer Center, and will help us advance our work in cancer drug development research.

3. The college approved a combined Bachelor of Science in Pharmaceutical Sciences (BSPS)/Doctor of Pharmacy (PharmD) degree that will allow students to complete their PharmD degree in seven years. This will significantly benefit our students in decreasing the overall cost of their education and provide more opportunity for them to pursue a post-PharmD residency or graduate program.

This progress would not be possible without our dedicated community of Buckeyes around the world supporting our goals of excellence and innovation. I’m very proud of this past year’s achievements while being committed to even more progress in the coming year. I hope you will continue to stand with the college as we roll out our new strategic plan.

Best wishes,

[Signature]
EMBRACING THE FUTURE WHILE PRESERVING EXCELLENCE: GRAND REOPENING

It's no secret that pharmacy is changing. Advances in science and technology are enabling new discoveries every day. Pharmacists are an integral part of the healthcare team – recognized as providers in Ohio law – and are the accessible patient care experts. With this in mind, The Ohio State University College of Pharmacy needed to make some changes too.

Over the past two years, the college has completed more than 25 renovation projects, ranging from updates and painting to full-scale demolition and rebuilding. These improvements were necessary to properly equip our spaces for training tomorrow’s healthcare leaders.

“These renovations were not only desperately needed, but beautifully done,” said Dean Henry J. Mann, PharmD, FCCP, FCCM, FASHP. “We have always had great confidence in our incredible faculty and dedicated students, but our facilities were aging and insufficient for our new curriculum.”
Implemented in 2015, the College of Pharmacy updated its Doctor of Pharmacy (PharmD) curriculum to develop a more patient care-focused pharmacy professional. To assist students in learning the skills needed to succeed in the modern profession, the second floor of Parks Hall was completely reworked. More than 100 donors came together to help fund these spaces for our students, including:

- The Mark and Linda Sirgo Counseling Suite, 11 technology-enhanced counseling rooms;
- The Ric Mora Pharmacy Simulation Classroom;
- The Meijer Foundation Pharmacy Skills Classroom, a technology-enhanced classroom that is set up for active learning;
- The Maryann Z. and Larry Kennedy Sterile Compounding Room; and,
- The Health Care Logistics, Inc. and the Gary and Connie Sharpe Family Pharmacy Skills Laboratory, a 40-workstation skills lab.

The Bachelor of Science in Pharmaceutical Sciences (BSPS) program has also experienced significant growth over the past few years, seeing a 30% increase in students enrolled in undergraduate credit hours. To accommodate the increase in students and active learning practices, the college created new, modern learning spaces, including a 150-seat technology-enhanced classroom on the first floor of the Riffe Building, overlooking Ohio Stadium and allowing improved faculty-student interactions. The classroom has technology around the room and mobile tables, giving faculty members the opportunity to design the room in a way that best facilitates each lesson.

The college also refreshed the BSPS laboratory and added an undergraduate advising suite near the lab so undergraduate students have a place to go that is specifically designed for their needs.

Before these renovations, the college was set on improving spaces not only for students but for research faculty as well. In 2017, the college celebrated the opening of the Natural Products Laboratory. Drs. Jinn and Diana Wu sponsored the renovation of the lab after Jinn Wu studied in it himself under Drs. Jack Beal and Ray Doskotch. With the addition of Dr. Blake Peterson to the Division of Medicinal Chemistry and Pharmacognosy in August, the college will undergo further renovations to numerous lab spaces in both Parks Hall and the Riffe Building.

**What's next?**

The college is committed to continually improving the facilities as times change. Future projects include:

- The creation of an active learning classroom in Parks Hall
- Renovations to the classroom 202 Parks Hall
- The creation of a quiet student study space on the first floor of Parks Hall
- Renovations to the second-floor restrooms
- The addition of a meditation room
- The addition of a lactation room
- The creation of an Experiential Office Suite
In 2018-19, the university approved a combined seven-year BSPS/PharmD degree program. The combined degree program offers streamlined course efficiencies between the BSPS and PharmD curricula to provide a seamless experience for committed undergraduate students. Students pursuing this option (typically) complete three years of the BSPS curriculum and then enroll in the four-year PharmD program. Students will receive their bachelor’s degree at the end of their P1 year (first year of PharmD). As such, the time to both degrees is lessened by one year.

In 2019-20, 11 Early Assurance Program (EAP) students will matriculate into the PharmD program and an additional 11 students were accepted into the combined degree program. Acceptance to the EAP program guarantees admission into our Doctor of Pharmacy (PharmD) program without the Pharmacy College Admission Test (PCAT) if EAP requirements are met by graduation.

**AWARD RECIPIENTS**

Awards are given annually at the BSPS graduation ceremony.

**Medicinal Chemistry & Pharmacognosy Award:**
Aimee Ho

**Pharmacology Award:**
Evan Kania

**Pharmaceutics Outstanding Undergraduate Award:**
Riley Mullins

**Pharmacy Practice & Science Award:**
Nathan Stadnik

**American Institute of the History of Pharmacy Student Recognition:**
Samantha Curnow

**Student Impact Award:**
Mei Ji He Ho Feng

**Faculty Award for Outstanding Graduating Student of the Year:**
Justin Jiang, Riley Mullins, Brenda Shen

**Charles River Research Student Leadership Award:**
Michael Stoffiere

**Outstanding Community Engagement:**
Brenda Shen

**Faculty Award for Distinguished Teaching in BSPS:**
Leslie Newman, PhD
BY THE NUMBERS

BSPS PROGRAM GROWTH

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<tr>
<th>Year</th>
<th>PS minor students</th>
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<td>AU17</td>
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<tr>
<td>AU18</td>
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EARLY ASSURANCE PROGRAM (EAP) GROWTH

<table>
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<tr>
<th>Year</th>
<th>Accepted to Pharmacy School</th>
<th>Employed</th>
<th>Accepted to Medical School</th>
<th>Accepted to Graduate Programs (MS, PhD, MD/PhD)</th>
<th>Delaying Search (Gap Year)</th>
<th>Accepted to Other Health Science Professions Programs</th>
<th>Still Seeking Employment, Graduate or Professional Program</th>
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<tr>
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<td>52</td>
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</table>

BSPS CLASS OF 2019 OUTCOMES

69%: ACCEPTED TO PHARMACY SCHOOL
12%: EMPLOYED
5%: ACCEPTED TO MEDICAL SCHOOL
5%: ACCEPTED TO GRADUATE PROGRAMS (MS, PhD, MD/PhD)
4%: DELAYING SEARCH (GAP YEAR)
2%: ACCEPTED TO OTHER HEALTH SCIENCE PROFESSIONS PROGRAMS
3%: STILL SEEKING EMPLOYMENT, GRADUATE OR PROFESSIONAL PROGRAM

MEET JAYLLEX MILLS AND HANNAH ONG: OHIO STATE BSPS SESQUICENTENNIAL SCHOLARS

Jayllex Mills is a Class of 2020 BSPS student from Dillonvale, Ohio. She was born and raised a Buckeye, and knew from childhood that Ohio State was the school for her. Mills chose to pursue a career in pharmacy because of her passion for helping others and being a resource that anyone can turn to. She was accepted into the Early Assurance Program and plans to attend pharmacy school at The Ohio State University College of Pharmacy beginning fall 2020.

Hannah Ong is a Class of 2021 BSPS student from Worthington, Ohio. Her parents, both originally from Hong Kong, met at The Ohio State University, so Ohio State has always had a special place in her heart. She began cancer research at Ohio State while she was in high school and served Columbus’ marginalized communities through an Ohio State free medical clinic. Being able to continue to follow her passion at a medical clinic, as well as engaging in leadership opportunities here at Ohio State, has been incredibly rewarding to Ong.
Through innovative curricula, a focus on “the whole student,” interdisciplinary training and ample opportunity for involvement, students in The Ohio State University College of Pharmacy are learning the skills they need to become influencers and trailblazers in health care.

“Pharmacy is changing very quickly. While we have a good sense of what the profession will look like in ten years and can prepare students for that, we also must focus on educating students to adapt and lead what pharmacy will be in 25-35 years,” said Dean Mann.

Our students are being prepared for this changing future by some of the leading experts in pharmacy recognized around the country. With dual appointments across campus and in the community in places such as The Ohio State University Wexner Medical Center, Ohio State Discovery Themes, The Charitable Pharmacy of Central Ohio and Nationwide Children’s Hospital, our faculty members and preceptors have a wide range of experiences to draw from in the classroom, lab and experiential sites.

The Doctor of Pharmacy (PharmD) curriculum, Inquire, Innovate and Involve (I3), places a direct focus on building leadership skills through teaching students self-awareness, assessing them on leadership skills and abilities during the first year of the curriculum, and providing lectures and activities on the fundamentals of leadership.

PharmD students can also get involved in leadership opportunities in student organizations at local and national levels. The College of Pharmacy has more than 20 of its own student organizations for professional students, each with multiple leadership positions available. If the college doesn’t have an organization that a student is interested in, they are encouraged to create it themselves with their peers. Outside of student organizations, PharmD students also have the opportunity to be involved in leading learning exercises with younger science students in the community as part of the Generation Rx and Pills, Potions and Poisons programs.
BY THE NUMBERS

PHARMD CLASS OF 2019 OUTCOMES

- 40%: Residency or Residency/Combined Masters
- 31%: Employment Offer Received or Accepted
- 17%: Lost to Follow Up/No Response
- 6%: Fellowship or Academic Program
- 6%: Applied, No Offer Yet or Delayed Search

NOTABLE CHANGES FROM 2018

- % of Students Still Seeking Positions:
  - 31% (May 2018)
  - 28% (May 2019)
- Graduates Rating Job Search Difficult or Extremely Difficult:
  - 54% (May 2018)
  - 41% (May 2019)

520 Professional Students

FIRST-TIME PASSING BOARDS PERCENTAGE:

<table>
<thead>
<tr>
<th></th>
<th>NAPLEX PASS RATE</th>
<th>MPJE PASS RATE</th>
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</thead>
<tbody>
<tr>
<td>Ohio State</td>
<td>95.6%</td>
<td>97.4%</td>
</tr>
<tr>
<td>All ACPE-Accredited Programs</td>
<td>89.5%</td>
<td>83.8%</td>
</tr>
</tbody>
</table>

FOUR-YEAR GRADUATION RATE:

- Class of 2016: 92.7%
- Class of 2017: 93.4%
- Class of 2018: 96.7%
- Class of 2019: 95%

*Four-year graduation rate reflects the percentage of students from cohort admitted four years prior to graduation, minus students pursuing dual degrees requiring them to extend their enrollment time in the PharmD program beyond four years. More information can be found at pharmacy.osu.edu.
TRAVELING ABROAD: EXPERIENCING SWITZERLAND THROUGH A PHARMACY LENS

Learning at Ohio State isn’t confined to classrooms on campus. College of Pharmacy students have the opportunity to become global learners and citizens through education abroad experiences, allowing them to see how healthcare systems work all over the world.

In partnership with the Office of International Affairs, the college offers short-term education abroad experiences annually to undergraduate and professional students. These unique opportunities help students gain an understanding of the pharmaceutical and healthcare industries across the globe, enabling them to envision new opportunities for the profession and their future careers. This year, students traveled to Switzerland during spring break, visiting pharmaceutical, historical and cultural sites to engage with healthcare practitioners and experience what pharmacy looks like in that country.

MEET KENDRA THOMAS: OHIO STATE PHARMD SESQUICENTENNIAL SCHOLAR

Kendra Thomas is a member of the PharmD Class of 2021, from Cincinnati, Ohio. She is a proud Buckeye, having received her BSPS degree in 2017. As a PharmD student, Kendra enjoys being involved in her college and the Columbus community.

During the 2019-20 school year, Thomas will serve as the president of the Academy of Managed Care Pharmacy, vice president of the Student Association for Specialty Pharmacy and vice president of fundraising for Buckeyes Without Borders. With Buckeyes Without Borders, she had the privilege to participate in a medical brigade to Honduras, where she participated in enhancing patient care and medication access through service to those in need. Thomas looks forward to her yearly service trips through Buck-I-SERV, where she leads undergraduate Ohio State students to areas all over the country during their winter breaks. When she is not working or in school, Thomas likes to explore Columbus with her friends and ride her longboard.

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“In Switzerland, there is a large implementation of technology in community pharmacies and a connection with public health opportunities, like encouraging people to get vaccinated or not smoke. Seeing pharmacists in a public health-focused role was exciting and gave me a better idea of how I can impact the profession in the states.” Nick Hamilton

“In Switzerland we were able to see both sides of the pharmacy profession, including drug discovery and pharmacy practice. This trip showed me that the profession can only advance if these two areas work together. It inspired me to think more about my communications skills and what I can be doing now to think outside the box and work better with my peers.” Yuki Lin

IMPROVING THE DRUG PICKUP PROCESS ONE PATIENT AT A TIME

Paul Oyefesobi, a Class of 2019 PharmD graduate, has always had an interest in connecting health care with business. The experiences he gained at Meijer during his P3 year, and a summer internship with Johnson & Johnson the summer prior, showed him how he could do just that.

“I saw first-hand how the pharmacist and patient had to work through discrepancies between drug price and insurance coverage,” Oyefesobi said. “There was a lack of information and communication, and I knew I could do something about it but I wasn’t sure what yet.”

This idea became solidified at the end of his P3 year. After witnessing the difficulty of the prescription drug pickup process again during an IPPE rotation, Oyefesobi began working on a solution. Enter RxMedAccess.

RxMedAccess is a high-level online formulary insight tool that streamlines information for providers related to insurance coverage and alternative therapeutic opportunities. The tool currently provides information for Medicaid and Medicare patients only, with the next step being information for commercial patients.

“RxMedAccess aggregates all healthcare plan datasets, allowing providers to look at patient drugs, healthcare plans and coverage all in one spot,” Oyefesobi said. “Providers and patients will now be proactively informed like never before.”

After graduation, Oyefesobi started a one-year rotational commercial development fellowship with PTC Therapeutics and OncoSec Medical. Over the course of a year, he will have the opportunity to contribute to Market Access, HEOR, and Business Development & Licensing, while supporting their immuno-oncology and rare disease pipeline.
PHD STUDENT TRAVELS TO THE HILL TO ADVOCATE FOR SCIENCE FUNDING

Preston Manwill, a PhD student in Dr. Liva Rakotondraibe’s lab, traveled to Washington, D.C., for the American Association for the Advancement of Science (AAAS) Catalyzing Advocacy in Science and Engineering (CASE) Workshop this year. This prestigious, one-of-a-kind conference introduces undergraduate, professional and graduate students to science and technology policy and the federal budget and Congress, empowers them to be an advocate for basic research, and makes connections between participants and members of Congress and their staff.

Ohio State had four student representatives at the conference to promote continued government support for academic research: Emma Wenckowski, an undergraduate student studying data analytics; Pallavi Oruganti, a veterinary medicine student; Emilio Mateo, a graduate student studying geography; and Manwill, whose academic focus surrounds medicinal chemistry and pharmacognosy.

On the last day of the conference, Manwill and the Ohio State cohort ascended Capitol Hill to thank congressmen and congressional staff for their previous and continued support of science and the agencies that fund basic science research. The cohort invited Sen. Rob Portman of Ohio to the Byrd Polar and Climate Research Center, an Ohio State Office of Research center focused on maintaining research excellence and supporting public engagement in polar and climate studies at the university. Manwill also thanked the senator for sponsoring a bill that supports tropical rainforests – a climate that is vital to natural products drug discovery.

“There are many more life-saving medicines to be discovered and there remains an enthusiastic group of biologists and chemists eager to perform the basic natural product research necessary to discover them. It is essential that our legislators and the general public recognize this important field of study and continue to support it through federal funding,” Manwill said. “The CASE workshop taught me that members of Congress are eager to hear from all their constituents, including scientists, and it falls on our shoulders to communicate our research to them and the public.”

After completing his PhD, Manwill plans to pursue postdoctoral research training while also continuing to share his passion for the field of natural products and drug discovery.
BY THE NUMBERS

ENROLLMENT, DEMOGRAPHIC AND GRADUATION DATA FOR THE PHARMACEUTICAL SCIENCES GRADUATE PROGRAM:

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<td>83</td>
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<td>Women</td>
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<td>31</td>
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<td>International Students</td>
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<td>New Enrollments</td>
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<td>Completed Applications</td>
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<td>PhD Degrees Granted</td>
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<td>7</td>
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AVERAGE TIME TO CANDIDACY
1.99 years

PHD GRADUATES TIME TO GRADUATION
4.76 years

PUBLICATIONS WITH GRADUATE STUDENTS
33

MEET BO TOKARSKI: OHIO STATE GRADUATE STUDENT SESQUICENTENNIAL SCHOLAR

Robert “Bo” Tokarski was born and raised in Pittsburgh, PA. He attended Saint Vincent College where he received his Bachelor of Science in Biochemistry in 2015. Tokarski joined Ohio State’s doctoral program in July 2015 as a member of Dr. James R. Fuchs’ organic synthesis lab. In addition to working on anticancer research projects, Tokarski has served as a teaching assistant for multiple classes. He has also been recognized with many awards, including the 2018 Donald T. Witiak Graduate Student Award in Medicinal Chemistry, recognizing extraordinary graduate achievements in cancer research; the American Foundation for Pharmaceutical Education (AFPE) Pre-Doctoral Fellowship in Pharmaceutical Sciences for the 2018-2019 and 2019-2020 academic years; the 2018 Chang Ahn Travel Award; and the 2018 American Society of Pharmacognosy (ASP) Lynn Brady Student Travel Award.
The Ohio State University College of Pharmacy has entered into a non-exclusive license agreement with Beam Therapeutics, a Boston biotech company for lipid-like nanoparticle (LLN) encapsulation technologies created by Yizhou Dong, PhD, associate professor of Pharmaceutics and Pharmaceutical Chemistry. This agreement is royalty-bearing and will be further developed under a strategic research agreement with Beam.

CRISPR (clustered regularly interspaced short palindromic repeats) allows researchers to precisely edit targeted DNA sequences and genomes. Base editing is a new category in CRISPR gene editing that improves the accuracy and efficiency of the CRISPR-Cas 9 technique. Beam’s groundbreaking technology allows scientists to make specific edits to base pairs in DNA or RNA. By using the power of a CRISPR enzyme, scientists can target a single location within the genome out of billions of bases (A, C, G, T). At that site, the technology is capable of precisely editing just a single base, without cutting the DNA or RNA strands. Lipid-like nanoparticles (LLN) provide an effective in-vivo delivery method for CRISPR/cas9 mRNA-based therapeutics.

Dong’s research is devoted to drug discovery and development for the treatment of cancer as well as inherited genetic disorders. By integrating his team’s specialties in pharmaceutics, pharmaceutical chemistry, biomedical engineering, materials formulation, and pre-clinical studies, his lab designs novel therapeutic medicines and uncovers their mechanisms of actions.
**TOTAL RESEARCH AWARDS: $10,072,191**  
**AACP FEDERAL FISCAL YEAR 2018**

- 85%: NATIONAL INSTITUTES OF HEALTH ($8,529,911)
- 8%: PRIVATE AGENCIES ($830,502)
- 5%: INDUSTRY ($551,908)
- 2%: OTHER FEDERAL ($159,870)

**TOTAL RESEARCH AWARDS BY INSTITUTE**  
**AACP FEDERAL FISCAL YEAR 2018**

- 53.2%: NCI- NATIONAL CANCER INSTITUTE ($4,533,766)
- 12.3%: NCATS- ADV TRANS SCIENCE ($1,046,019)
- 11.3%: NHLBI- HEART LUNG BLOOD ($966,559)
- 5.8%: NIAID- ALLERGY & INF DISEASE ($492,523)
- 5.4%: NIGMS- GEN MED SCIENCES ($458,148)
- 4.1%: NIBIB- BIOMED IMG & BIOENG
- 3.8%: NINDS- NEURO DISORD & STROKE
- 2.4%: NIMH- MENTAL HEALTH
- 1.0%: NICHD- CHILD HEALTH HUM DEV
- 0.7%: NIDDK- DIAB DIGEST KIDNEY DIS
- 0.2%: NIDA- DRUG ABUSE

**WELCOME BLAKE PETERSON, CHAIR OF MEDICINAL CHEMISTRY AND PHARMACOGNOSY**

Blake R. Peterson, PhD, has been selected as chair and professor for the college’s Division of Medicinal Chemistry and Pharmacognosy. Peterson, who joined the college in August, is the first in a series of planned faculty recruits focused on cancer drug discovery.

The Peterson laboratory creates chemical tools for the study of biological systems, investigates diverse biological targets and employs fluorescence-based and imaging-based methods to evaluate the effects of small molecules, peptides and proteins on isolated proteins, living cells and model organisms. Working in the fields of bioorganic/medicinal chemistry and chemical biology, the lab pursues projects involving anticancer agents, anti-infective agents, molecular probes, tools for target identification and methods for drug delivery. An overarching theme of the group’s work is the identification of new therapeutic approaches, mechanisms and agents.
College of Pharmacy students and faculty have been working tirelessly over the past year to advance The Advocacy Collaborative, a Pharmacy Council initiative that encourages collaboration across the college to drive the advocacy and legislative efforts of student organizations.

The collaborative serves as the common voice for pharmacy student organizations and provides opportunities to participate in conversations with providers pertaining to patient care, as well as interact with community members and legislators to educate the public about the role of the pharmacist. Students Andy Myers, Stephanie Yasechko, and Natalie Hagy are leading the charge, mentored by Dr. Jen Rodis, assistant dean of outreach and engagement.

Over the past year, the group has made significant strides. In response to Senate Bill 265, a bill that would formally recognize pharmacists as healthcare providers in Ohio law, the students hosted Sen. Matt Dolan, who sponsored and introduced the bill. They showcased the importance of pharmacists by hosting community outreach events at 10 Franklin County libraries, educating the community on safe medication use and providing free blood pressure and diabetes blood glucose tests. They also implemented a letter-writing campaign, which encouraged healthcare professionals to write their legislators attesting to the importance of provider status.

After SB 265 passed, the students were left wondering, what next? This inspired Myers and Hagy to conduct independent research to assist the college in formulating effective strategies for continued advocacy to keep pushing the profession’s scope of practice forward.

Myers is working with Drs. Rodis and Julie Legg, director of experiential education, to develop an Advocacy Guide for Ohio pharmacy students. The guide shows step-by-step instructions on how students can impact their profession by meeting with state legislators and includes templates and resources for reaching out to them directly.

“When you are just getting started with advocacy, it can feel daunting,” Myers said. “The goal of this guide is to ease those feelings and help students develop relationships that can further the profession.”

Hagy is researching how pharmacy schools teach political advocacy. Her hope is to gain insight into the gaps and importance of advocacy in the profession so that higher education can create a more effective advocacy curriculum.

As their research moves forward, The Advocacy Collaborative will continue to provide students with the tools they need to make their voices heard in the profession.
**HIGHLIGHTS**

- The College of Pharmacy received two university engagement awards: Generation Rx was awarded the 2019 Distinguished Community Engagement Award and the South Africa Antibiotic Stewardship “Train the Trainer” Program was awarded the Distinguished International Engagement Award.

- The college’s Generation Rx program received the inaugural Engagement Scholarship Consortium (ESC) Excellence in Community Partner Engagement Award, which recognizes a higher education institution and its exemplary contributions to scholarship and the practice of engaged scholarship.

- Emma Siegel and Abby Block were selected for the 2019-20 Albert Schweitzer Fellowship. The Columbus-Athens Schweitzer Fellowship (ASF) immerses a select group of graduate students in an experiential learning and leadership development program designed to increase and sharpen their skills and abilities as servant leaders.

- Drs. Chelsea Pekny and Lynn Wardlow (OSUWMC) conducted a seminar describing the role of the clinical pharmacist on interdisciplinary teams during Global One Health initiative’s Summer Institute in Ethiopia, educating over 40 veterinarians, pharmacists and physicians on the role of the clinical pharmacist in patient care.

- Dr. Debra Goff was awarded a grant from Pfizer to pursue antimicrobial stewardship training focused on neonates, based on her previously successful train-the-trainer model. Partners in this endeavor include physicians and pharmacists from Nationwide Children’s Hospital, the College of Pharmacy, the College of Medicine and pharmacists from South Africa’s public and private sector hospitals.

- The college’s Office of Continuing Professional Development provided 137.25 hours of continuing pharmacy education (CPE) credit to 552 pharmacists and 371 students – a 20% increase in the number of pharmacists trained from 2017-2018.

- The ITIO-Medication Management Program offered telephonic medication therapy management (MTM) services to over 140,000 patients across the country during 2018. Patient satisfaction with MTM services was 99.7%.
## ANNUAL BUDGET

<table>
<thead>
<tr>
<th>SOURCE TYPE</th>
<th>TOTAL AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIVERSITY FUNDS</td>
<td>$23,154,319</td>
</tr>
<tr>
<td>RESEARCH FUNDS</td>
<td>$8,177,672</td>
</tr>
<tr>
<td>EARNINGS FUNDS</td>
<td>$81,263</td>
</tr>
<tr>
<td>DEVELOPMENT FUNDS</td>
<td>$1,845,071</td>
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<tr>
<td>CONTRACTUAL AGREEMENTS</td>
<td>$457,375</td>
</tr>
<tr>
<td>MMP (MEDICATION MANAGEMENT PROGRAM)</td>
<td>$4,996,477</td>
</tr>
<tr>
<td>DESIGNATED FUNDS</td>
<td>$3,600</td>
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<tr>
<td>TOTAL</td>
<td><strong>$38,715,777</strong></td>
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</tbody>
</table>
RIFFE BUILDING 112/118
150-seat technology-enhanced classroom
(opened October 2018)
ADVANCEMENT

Fiscal year 2019 has been a banner year for the College of Pharmacy Advancement Team. Alumni, friends, foundations and corporations joined together to nearly double the college's previous fundraising record of $5.8 million with an astounding $10.6 million. These dollars will allow the college to continue to equip our students, faculty and researchers to strive to fulfill our mission.

Here are just a few ways donor dollars have impacted our college this year:

• Alumni, donors and friends joined us to celebrate the grand opening of the Integrated Pharmacy Practice Laboratory – a project made possible through more than 100 donations.

• The college was able to recruit Dr. Blake Peterson, a prominent cancer researcher, and update our lab spaces for his research program. Our current facilities would not have been able to support this work without renovation.

• We were able to give brand new scholarships to students, including five scholarships that cover the full cost of tuition for first-generation students interested in pharmacy.

Our success is made possible, in large part, thanks to the donations from our incredibly generous alumni and friends. Whether time, treasure or talent, when Buckeyes give back, they leave a lasting impact. Their support enhances our students’ experience, advances our groundbreaking research and helps us advance our mission of improving patient care.
DONATIONS BY DONOR TYPE

<table>
<thead>
<tr>
<th>Donor Type</th>
<th>Total Giving</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alumni (635)</td>
<td>$8,399,417</td>
</tr>
<tr>
<td>Corporations &amp; Foundations (62)</td>
<td>$1,177,347</td>
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<tr>
<td>Friends (359)</td>
<td>$298,133</td>
</tr>
<tr>
<td>Other Organizations (22)</td>
<td>$758,598</td>
</tr>
</tbody>
</table>

TOTAL GIVING: $10,633,495
TOTAL DONOR COUNT: 1,078

TOP FOUR FUNDS THAT DONATIONS WERE SLATED TO:

1. Student support: $8,190,114
2. Research: $1,028,290
3. Program support: $669,147
4. Facilities & maintenance: $565,254

“I received a tuition scholarship every year during my educational experience at Ohio State. The dollar amount I received seems small now compared to the current tuition expense, but it was a great assist to completing my degree. I am gratified that I can contribute to the college so that others may benefit as I did.”

- Jerry Hudec, BS ’67

WE HAVE PHARMACY BUCKEYES IN EVERY STATE ACROSS THE COUNTRY:
Wellness efforts create resilient healthcare professionals

Wellness is an integral part of life at Ohio State and the College of Pharmacy. Ensuring that students, faculty and staff can make healthy choices and live a better life is ingrained in everything we do, from our curriculum to our student organizations. But this mindset didn’t just happen overnight - Chief Wellness Officer and Dean of the College of Nursing Bernadette Melnyk, Wellness Innovators and Ambassadors across campus have demonstrated a commitment to health and well-being. This is the Buckeye Wellness Initiative.

This year, the college hosted an inaugural Wellness Week which included a visit from a therapy dog, REACH Suicide prevention training, a yoga class, a financial wellness talk by Dr. Timothy Ulbrich, wellness walks, crafts and mental health kits.

Although Wellness Week was only five days, the college has a team of Wellness Innovators and Ambassadors that plans programming throughout the year. Year-long wellness offerings included access to an embedded licensed psychologist, numerous hikes at Columbus-area Metro Parks, fresh fruit in the dean’s suite as a healthy snack option, Zumba classes and a “Take Five” station with activities for anyone in the building to enjoy.

WELLNESS EFFORTS BY THE NUMBERS:

4,994 touch points with faculty, staff and students

1,161 participants in Wellness Week