Our pharmacy community consistently strives for excellence and we are proud of what we’ve accomplished in the past year. Improving medications and medication-related health outcomes remains at the core of everything we do. Our students and alumni are motivated to make a difference, and as you can see from this report, they are doing just that.

This year, our students were recognized on-campus and around the country for their dedication to this profession and making a difference in the lives of their patients. Two student organizations received university awards for their community service efforts and passion for enhancing diversity, while undergraduate and professional students were celebrated for their commitment to their studies, research and the community.

Our students weren’t the only ones who experienced success this year; our faculty and staff expanded on the college’s strong research and outreach efforts. The college ranked 12th in the National Institutes of Health (NIH) funding and exceeded our seven-year average of peer-reviewed publications. Our partnerships flourished and we were able to provide more support to the community than ever before through presentations, live performances, screenings and medication therapy management reviews.

Of course, none of this hard work would be possible if it weren’t for our incredible alumni, donors and friends. This year, donations to The Ohio State Fund for Pharmacy were up more than 7% and we reached our annual giving goal two months early.

While the pages that follow showcase just a snapshot of all our accomplishments from the past year, I hope you feel a sense of Buckeye pride as you read through the report. We are proud of all we have achieved and invite you to celebrate with us as we look forward to what the next year holds.

Henry J. Mann, PharmD, FCCP, FCCM, FASHP
Dean and Professor of Pharmacy Practice and Science
STUDENTS

The American Pharmacist Association – Academy of Student Pharmacists (APhA-ASP) received the Student Group Award for Excellence in Community Service Programming at The Ohio State University Engagement Recognition Awards for demonstrating excellent outreach and/or engagement within Ohio’s communities through partnership with a community agency.

David Fabich, Jeremy Gornto, Ryan Peterson and Chris Yost placed third in the Academy of Managed Care Pharmacy (AMCP) Foundation’s National Student Pharmacist Pharmacy & Therapeutics (P&T) Competition.

Marie Latsa was named recipient of the United States Public Health Service Excellence In Public Health Pharmacy Award.

Riley Mullins received an Astronaut Scholarship from the Astronaut Scholarship Foundation (ASF) and a Pelotonia Fellowship.

The Student Pharmacist Association for Diversity and Equity (SPADE) received The Ohio State University’s 2018 Distinguished Diversity Enhancement Award.
FACULTY

Kristin Casper received the APhA Community Pharmacy Residency Excellence in Precepting Award.

Xiaolin Cheng was honored as a winner of the Oak Ridge National Laboratory Bioscience Division’s Significant Event Award and was the winner of a Competitive 2018 Department of Energy Innovative and Novel Computational Impact on Theory and Experiment (INCITE) Award.

Ken Hale and Nicole Kwiek presented at the 2018 Buckeye Summit, a gathering of 400 people from all over the world to discuss ways to elevate health and wellness and treat addiction.

Bella Mehta received the APhA Daniel B. Smith Practice Excellence Award which recognizes a pharmacy practitioner who has distinguished herself and the profession through outstanding performance and achievements.

Milap Nahata received the AACP Lifetime Achievement award and the Pharmacy Practice Section Distinguished Service Award.

Jennifer Rodis was honored with an OPA Distinguished UNDER 40 Award.

Liva Rakotondraibe was recognized by Who’s Who in Black Columbus, a celebration of African-American Achievement.
The Bachelor of Science in Pharmaceutical Sciences (BSPS) and Pharmaceutical Sciences (PS) minor programs both saw steady and significant growth. In 2017-18, the BSPS major gained 30 new students and the PS minor gained 48 (last year was the program’s first). The college observed a nearly 30% increase in students enrolled in undergraduate credit hours, and since 2013-14, this number has more than doubled.
The university approved a seven-year combined BSPS/PharmD program, which will begin admittance in academic year 2018-19. This new program was created for undergraduate students who are committed to pursuing a Doctor of Pharmacy degree from Ohio State and provides a seamless, streamlined student learning experience.

The college opened a renovated BSPS lab on the first floor of Parks Hall.

Nicole Kwiek was promoted to assistant dean of undergraduate studies.

Students traveled to Athens during winter break for the second annual Southeast Ohio Alternative Learning Trip. They learned about the Appalachian region’s social, economic and healthcare-related issues through various site visits and guest speakers.

Three BSPS students represented The Ohio State University College of Pharmacy at the 2018 Choose Ohio First Scholar Showcase. Now in its tenth year, the scholar showcase is a celebration of the Choose Ohio First Scholarship initiative, which allocated more than $16 million in aid for students enrolled in science, technology, engineering, mathematics and medicine (STEMM) fields in the last year.
OUR STUDENTS

DOCTOR OF PHARMACY (PHARMD)

525 professional students

Underrepresented minorities in PharmD program*

<table>
<thead>
<tr>
<th>Class of 2018</th>
<th>Class of 2019</th>
<th>Class of 2020</th>
<th>Class of 2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>11%</td>
<td>11%</td>
<td>13%</td>
<td>10%</td>
</tr>
</tbody>
</table>

* Underrepresented minorities include African-American or African, Hispanic and Native American students.
PHARMD CLASS OF 2018 OUTCOMES

37% - RESIDENCY OR RESIDENCY PLUS COMBINED MASTER’S PROGRAM
33% - EMPLOYMENT OFFER RECEIVED OR ACCEPTED
25% - STILL SEEKING
4% - FELLOWSHIP
1% - NOT YET SEEKING

HIGHLIGHTS

Sarah Wheeler, PharmD Class of 2018, was named the APhA-ASP National Patient Counseling Competition Winner. Wheeler out-counseled more than 130 students across the country at the organization’s annual meeting, and is the second Ohio State student in five years to receive the award.

PharmD students completed over 175,000 Advanced Pharmacy Practice Experience (APPE) rotation hours with 414 preceptors at 108 partner organizations.

The Accreditation Council for Pharmacy Education (ACPE) visited in October 2017 to verify the college’s self-study report and compliance with 25 standards. The college received accreditation for the maximum term of eight years.

The college developed a four-course sequence in the Inquire, Innovate, Involve (I3) curriculum to teach P2 and P3 students how to advance collaboration and quality of patient care by providing them with interprofessional opportunities to learn about, from and with other members of the healthcare team. In 2017-2018, our P2s had six Interprofessional Education (IPE) sessions and collaborated with other health science students.

FIRST-TIME PASSING BOARDS PERCENTAGE:
*pass rates from first-time test takers on 2017 licensure exams

<table>
<thead>
<tr>
<th>NAPLEX PASS RATE</th>
<th>MPJE PASS RATE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ohio State</strong></td>
<td><strong>Ohio State</strong></td>
</tr>
<tr>
<td>94.1%</td>
<td>94.1%</td>
</tr>
<tr>
<td>All ACPE-Accredited Programs</td>
<td>All ACPE-Accredited Programs</td>
</tr>
<tr>
<td>88%</td>
<td>85.2%</td>
</tr>
</tbody>
</table>
OUR STUDENTS

GRADUATE STUDIES

255 graduate students
(includes online programs)

103 Master of Applied Clinical and Preclinical Research (MACPR) (online)

62 Master of Science in Pharmacology (online)

17 Master of Science in Pharmaceutical Science - Health-System Pharmacy Administration

73 Doctor of Philosophy - Pharmaceutical Sciences
ENROLLMENT, DEMOGRAPHIC AND GRADUATION DATA FOR THE PHARMACEUTICAL SCIENCES GRADUATE PROGRAM:

<table>
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<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Enrollment</td>
<td>76</td>
<td>74</td>
<td>83</td>
<td>90</td>
</tr>
<tr>
<td>Women</td>
<td>30</td>
<td>29</td>
<td>31</td>
<td>36</td>
</tr>
<tr>
<td>International Students</td>
<td>33</td>
<td>36</td>
<td>42</td>
<td>54</td>
</tr>
<tr>
<td>Underrepresented Minority (domestic)</td>
<td>3</td>
<td>3</td>
<td>6</td>
<td>9</td>
</tr>
<tr>
<td>New Enrollments</td>
<td>12</td>
<td>13</td>
<td>21</td>
<td>23</td>
</tr>
<tr>
<td>GRE Verbal</td>
<td>62</td>
<td>64</td>
<td>67</td>
<td>67</td>
</tr>
<tr>
<td>GRE Quantitative</td>
<td>76</td>
<td>78</td>
<td>78</td>
<td>74</td>
</tr>
<tr>
<td>GRE Writing</td>
<td>3.83</td>
<td>3.91</td>
<td>3.59</td>
<td>3.75</td>
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<tr>
<td>Completed Applications</td>
<td>168</td>
<td>178</td>
<td>209</td>
<td>197</td>
</tr>
<tr>
<td>PhD Degrees Granted</td>
<td>6</td>
<td>6</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>MS Degrees Granted</td>
<td>10</td>
<td>8</td>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

BY THE NUMBERS

AVERAGE TIME TO PHD CANDIDACY

1.86 years*

*Transfer students in the 2015 and 2016 cohorts shortened the average time to candidacy.

PHD GRADUATES TIME TO GRADUATION

5.03 years

PUBLICATIONS WITH GRADUATE STUDENTS

41

HIGHLIGHTS

The college’s Graduate Research Committee presented the Ahn Travel Award to nine graduate students including Jason Anderson, Nick Cockroft, Anees Dauki, Sijin Guo, Andrew Huntsman, Ezgi Karaesman, Robert Tokarski, Tyler Wilson and Hongran Yin. The awards, totaling $8,900, supported the students’ ability to attend various national meetings and conferences in order to present their research.

The college received one allocated Graduate Student Fellowship, two University Fellowships, and one Graduate Enrichment Fellowship from the Graduate School.

Graduate students Anees Dauki and Robert Tokarski received an AFPE Fellowship for the 2018-2019 academic year.

Ezgi Karaesmen and Kevin Huang both received a Pelotonia Fellowship for the 2018-2019 academic year.
The College of Pharmacy is home to world-renowned researchers who are leading their fields of study. With seven health sciences colleges within a few steps, collaboration and innovation are leading to new discoveries and technologies and bettering the lives of Ohioans and people across the globe.

Research Award Funding Types
(AACP Federal Fiscal Year 2017)

<table>
<thead>
<tr>
<th>Category</th>
<th>Funding Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>NATIONAL INSTITUTES OF HEALTH:</td>
<td>$9,937,711</td>
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<tr>
<td>INDUSTRY:</td>
<td>$455,965</td>
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<tr>
<td>OTHER FEDERAL:</td>
<td>$161,085</td>
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<tr>
<td>PRIVATE AGENCIES:</td>
<td>$159,000</td>
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<tr>
<td>STATE OF OHIO:</td>
<td>$52,208</td>
</tr>
<tr>
<td>DEPARTMENT OF DEFENSE:</td>
<td>$22,813</td>
</tr>
</tbody>
</table>

- **$9.938** million NIH funding
- **$10.789** million total funding
- **12th** rank in NIH funding (AACP)
- **185** peer-reviewed publications (exceeding seven-year average of 161)
- **23rd** rank in total funding (AACP)

17 INVENTIONS
31 PATENT FILINGS
4 LICENSES
9 ACTIVE LICENSING DEALS
HIGHLIGHTS

Invested more than $2.4 million in research, including infrastructure, research renovations, instrumentation, faculty, award dollars and more.

Peixuan Guo was chair and organizer of the First Conference on Biomotors, Virus Assembly and Nanobiotechnology Applications which was held at Ohio State. More than 70 of the world’s leading scientists and engineers working in diverse fields presented.

Yizhou Dong, associate professor of Pharmaceutics and Pharmaceutical Chemistry, was named the 2017 Ohio State Early Career Innovator of the Year.

Recruited Xiaolin Cheng to the Division of Medicinal Chemistry and Pharmacognosy as part of the Translational Data Analytics Discovery Theme.

Since 2013, expanded overall faculty numbers by 22%.

2017-2018
DISTINGUISHED LECTURES

Susan Bates, MD
Developing Epigenetic Agents for Cancer Therapy

Michel Bouvier, PhD
Functional Selectivity and Spatio-Temporal propagation of GPCR signaling; from structural determinants to better drugs?

Julie Johnson, PharmD
Improving Patient Outcomes through Pharmacogenetics

Kip Guy, PhD
SJ733, a novel antimalarial, from discovery to mechanism

Lang Li, PhD
Translational pharmacoinformatics research: the convergence of innovations and beyond
The College of Pharmacy’s Office of Outreach & Engagement had another very successful year. The college accepted the 2017 Lawrence C. Weaver Transformative Community Service Award by the American Association of Colleges of Pharmacy (AACP), received three University Engagement Awards, established an Outreach & Engagement Committee, presented at the university’s inaugural Community Engagement Conference and established a new undergraduate community service organization, Outreach Rx. The office also placed a strong focus on further developing relationships with the college’s local and global partners.

Collaboration is vital to the college’s success in Outreach & Engagement. We partner with organizations across the state and around the globe to better patients’ lives and to enhance our students’ learning experiences. We sincerely thank our partners for another great year.

For information on how to partner with the College of Pharmacy, visit the Partnerships section of our website.
Hosted Senator Matt Dolan who spoke with more than 180 students about Senate Bill 265. In April, faculty and students provided verbal proponent testimony for the bill.

Presented on medication safety and provided 130 medication therapy management reviews to the geriatric population.

Hosted a ten person delegation visit from National Taiwan University to explore expansion of the partnership in clinical training and research between National Taiwan University and The Ohio State University College of Pharmacy.

The Charitable Pharmacy of Central Ohio received the Excellence in Community Partnership Award, which recognizes organizations that have rendered exceptional outreach and/or engagement within Ohio’s communities through partnership with Ohio State.

Engaged with 2,300 COSI guests through live performances and teleconferences at The Generation Rx Lab.

In partnership with Kroger, third and fourth year pharmacy students conducted 281 blood pressure and blood glucose screenings for underserved populations.
More than 25 renovation projects were completed, ranging from major construction to minor enhancements.

Broke ground on 2 major renovation projects for completion in fiscal year 2019: the Practice Lab and a 150-seat classroom.

<table>
<thead>
<tr>
<th>SOURCE TYPE</th>
<th>TOTAL AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIVERSITY FUNDS</td>
<td>$22,595,262</td>
</tr>
<tr>
<td>RESEARCH FUNDS</td>
<td>$8,273,677</td>
</tr>
<tr>
<td>EARNINGS FUNDS</td>
<td>$97,882</td>
</tr>
<tr>
<td>DEVELOPMENT FUNDS</td>
<td>$2,252,119</td>
</tr>
<tr>
<td>CONTRACTUAL AGREEMENTS</td>
<td>$434,566</td>
</tr>
<tr>
<td>MMP (MEDICATION MANAGEMENT PROGRAM)</td>
<td>$3,675,589</td>
</tr>
<tr>
<td>DESIGNATED FUNDS</td>
<td>$20,050</td>
</tr>
<tr>
<td>TOTAL</td>
<td>$37,349,145</td>
</tr>
</tbody>
</table>
Our alumni and donors are central to the success we see at the college, and we are eternally grateful for the support we receive. Pharmacy Buckeyes and external stakeholders go above-and-beyond to connect with our faculty, students and staff. They are generous with their knowledge, time and resources. This year, donations to The Ohio State Fund for Pharmacy were up more than 7%, alumni gift participation increased and the college’s annual giving goal was reached two months early.

Our Pharmacy Alumni Society, in particular, is an incredibly passionate group of Buckeyes who make an extraordinary impact on our college. This year, our alumni society will again receive an “Outstanding Alumni Society Award” from The Ohio State University Alumni Association.
Donors were recognized during the 2017 Scholarship Lunch for making a difference for our students.

Alumni and friends at the ASHP meeting in Orlando, FL. Alumna Karen Kier was honored with the Latiolais Award.

The college recognized alumni, faculty and students who received awards at the third annual Pharmacy Gala.

The college hosted its third annual Pharmathon 5K to raise money for Generation Rx.

During Homecoming Weekend, the college celebrated the Class of 1967 with a class dinner at The Grand Event Center.

Walgreens donated to the college to support its diversity initiatives.

During Homecoming Weekend, the college hosted its annual Tailgate before the Homecoming football game.

Ken Hale, a faculty member and alumnus, received the Alumni Medalist Award from the Ohio State Alumni Association.

Ohio State held its first Health Sciences Family Fun Day at COSI.