I am incredibly proud of The Ohio State University College of Pharmacy’s efforts to lead in pharmacy education, research and engagement. Our faculty, students and staff are constantly striving to improve and innovate, and the results have been very gratifying.

This year, the college was honored to be selected as the recipient of the Lawrence C. Weaver Transformative Community Service Award by the American Association of Colleges of Pharmacy (AACP) for our commitment to addressing unmet community needs through education, practice, and research. Areas of excellence noted for the college include serving vulnerable populations; curriculum-based engagement; public education; and global pharmacy advancement.

This was an outstanding year for the college research efforts. We reached the top ten in National Institutes of Health (NIH) funding and the top 15 in overall research funding among colleges of pharmacy. This is a great accomplishment for the college and illustrates the strength of the faculty we have been able to recruit. This success also highlights our partnership with the world-class Ohio State University Wexner Medical Center and the Comprehensive Cancer Center.

The strength of the college is built on a foundation of rigorous academics, top-quality students, and forward-thinking faculty. Today, we continue to innovate new methods of teaching, research, practice and outreach. The unceasing effort to be the best we can be is what keeps us among the top pharmacy schools in the world.

The pages that follow highlight just a portion of the academic, educational, research and outreach accomplishments that we have achieved. I hope you will enjoy reading our story as you learn more about how the College of Pharmacy is preparing the nation’s next generation of pharmacy leaders.

Henry J. Mann, PharmD, FCCP, FCCM, FASHP
Dean and Professor of Pharmacy Practice and Science
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Best wishes.
OUR COLLEGE

HIGHLIGHTS:

STUDENTS:

• FirstStep Fertility Pharmacy placed second overall in the Innovative Pharmacy Business Plan Competition (IPBPC) at the Ohio Pharmacists Association (OPA) Annual Meeting.

• The Generation Rx Collaborative was named the recipient of the Student Group Award for Excellence in Community Service Programming by The Ohio State University Office of Engagement.

• E. Michael Murphy was named national president of the American Pharmacists Association Academy of Student Pharmacists (APhA-ASP).

• Joshua Ong received the Outstanding Senior Award from The Ohio State University’s Office of Student Life.

• Kelin Wheaton received a Graduate Student Travel Award to attend the American Society for Pharmacology and Experimental Therapeutics (ASPET) Experimental Biology 2017 Meeting.

• David Chen, Yuexing Li, Kelvin Tran and Ann Xi won the 2017 AMCP Pharmacy & Therapeutics Competition.

FACULTY (NATIONAL AWARDS):

• Kelli Barnes, Stuart Beatty and Kristin Casper were named American Association of Colleges of Pharmacy (AACP) Wal-Mart Scholars Program Mentors.

• Stuart Beatty was named a fellow of the American Pharmacists Association Academy of Pharmacy Practice Management (APhA-APPM).

• Yizhou Dong won the 2016 American Association of Pharmaceutical Scientists (AAPS) Foundation New Investigator Grant.

• Navjot Pabla received the American Heart Association Scientist Development Award.

• Maria Pruchnicki was named a fellow of the American College of Clinical Pharmacy (ACCP).

• Marjorie Neidecker received the Distinguished Service Award from the Consortium of Academic Programs in Clinical Research.

• Przemyslaw Radwanski received a Young Author Achievement Award from the Journal of the American College of Cardiology (JACC): Basic to Translational Science.

• Jennifer Rodis received the Distinguished Achievement Award in Pharmacy Practice from the American Pharmacists Association (APhA).
OUR STUDENTS

BACHELOR OF SCIENCE IN
PHARMACEUTICAL SCIENCES:

Undergraduate programming, including the Bachelor of Science in Pharmaceutical Sciences (BSPS) and the Pharmaceutical Science (PS) minor, represents an area of growing opportunity for the College of Pharmacy.

TWO TRACKS

HEALTHCARE PROFESSIONS PATHWAY

DRUG DISCOVERY & DEVELOPMENT PATHWAY

407 BSPS STUDENTS + 10 PS MINOR STUDENTS

NEW IN 2016

72 EARLY ADMISSIONS PATHWAY (EAP) STUDENTS • 70 ENROLLED IN HONORS PROGRAM

Students who are admitted to EAP are guaranteed matriculation into Ohio State’s Doctor of Pharmacy (PharmD) program if all EAP criteria are met and maintained throughout their undergraduate career.
<table>
<thead>
<tr>
<th>INCOMING CLASS:</th>
<th>GRADUATING CLASS:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>62%</strong></td>
<td><strong>108</strong> graduates</td>
</tr>
<tr>
<td>in top 10% of their high school class</td>
<td></td>
</tr>
<tr>
<td><strong>28.6</strong> Average ACT score</td>
<td><strong>89%</strong> Applied to professional or graduate school</td>
</tr>
<tr>
<td><strong>22.0</strong> Average ACT score for Ohio students</td>
<td><strong>4%</strong> Applied to full time employment</td>
</tr>
<tr>
<td><strong>20.8</strong> National average ACT score</td>
<td><strong>6%</strong> Not reported</td>
</tr>
</tbody>
</table>

* Survey response rate about graduating plans was 45%

“Compared to other colleges, Ohio State’s BSPS program provides a great foundation for a variety of health science professions and gives students the option to focus their studies to their interests, whether they are more interested in healthcare or research.”

- Jessica Martz, fourth year BSPS, EAP student
OUR STUDENTS

DOCTOR OF PHARMACY (PHARMD):

During the 2016-2017 school year, the college launched its new PharmD curriculum, Inquire, Innovate, Involve (I3). The curriculum takes an innovative approach to education by structuring classes in modules so students can experience the integration of science and practice. I3 also allows students to get hands-on pharmacy training early in the program and focuses on developing the interpersonal skills that are critical to patient interactions.

LICENSURE EXAM
PASS RATES EXCEED NATIONAL AVERAGES:

94.8 Ohio State Pass Rate - North American Pharmacist Licensure Examination

85.9 All ACPE-Accredited Programs - North American Pharmacist Licensure Examination

97.6 Ohio State Pass Rate - Multistate Pharmacy Jurisprudence Examination

84.7 All ACPE-Accredited Programs - Multistate Pharmacy Jurisprudence Examination

WHERE DO OUR PHARMD STUDENTS GO POST GRAD?

42% Employment
31% Residency
3% Fellowship
21% Still Seeking
3% Not Reported

*Survey distributed prior to graduation

517 PROFESSIONAL STUDENTS

[Graph showing enrollment by class year from Class of 2017 to Class of 2020]
“I chose to come to Ohio State as an undergraduate student partly because of the location in a great city, but also because I knew I wanted to go into pharmaceutical sciences and Ohio State is known to have a highly-ranked pharmacy school. After completing my undergraduate degree, I stayed at Ohio State for my PharmD degree because of the excellent relationships I made with the faculty.”

- Ariela Lopez, PharmD Class of 2020

“The College of Pharmacy embraces innovation and creativity and has pioneered many great projects like Generation Rx, Medication Management Program, Partner for Promotion, and University Health Connection. Due to the college’s continual improvement and push for innovation and change, I feel confident that I will be ready for changes taking place in the profession because more than likely, the changes will be discovered right here at Ohio State.”

- Emmanuel Osei, PharmD Class of 2019
OUR STUDENTS & TRAINEES

GRADUATE STUDIES:

The college offers a robust graduate program in pharmaceutical sciences. There is a master’s degree with a health systems pharmacy administration specialization and a PhD program with specialized tracks in Medicinal Chemistry and Pharmacognosy, Pharmaceutics and Pharmaceutical Chemistry, Pharmacology, and Translational Science. We also participate in an interdisciplinary masters of applied clinical and preclinical research.

MS IN PHARMACEUTICAL SCIENCES:
HEALTH-SYSTEMS PHARMACY ADMINISTRATION WITH RESIDENCY

6 PARTNER RESIDENCY SITES

• THE OHIO STATE UNIVERSITY WEXNER MEDICAL CENTER
• GRANT MEDICAL CENTER
• RIVERSIDE METHODIST HOSPITAL
• NATIONWIDE CHILDREN’S HOSPITAL
• KROGER PHARMACY
• PHARMACY SYSTEMS, INC.

OF GRADUATES FOUND FULL TIME EMPLOYMENT WITHIN ONE MONTH OF GRADUATION IN JOBS SUCH AS MANAGER OF PHARMACY OPERATIONS
PhD PROGRAM:

Students per specialization:
Medicinal Chemistry and Pharmacognosy: 27
Pharmaceutics and Pharmaceutical Chemistry: 27
Pharmacology: 8
Translational Science: 4

AVERAGE TIME TO CANDIDACY
1.6 YEARS

* Several transfer students in the 2016 cohort, making the average time to candidacy significantly shorter.

AVERAGE TIME TO PhD
5.3 YEARS

Incoming Class Data:
Average GPA: 3.59
GRE quantitative score: 78%
Domestic student percentage: 41%
International student percentage: 59%

OUR TRAINEES: (COLLEGE OF PHARMACY & OSU WEXNER MEDICAL CENTER)

35 PHARMACY RESIDENT GRADUATES

PGY1:
4 COMMUNITY
2 AMBULATORY
6 INSTITUTIONAL

PGY2:
6 AMBULATORY
1 PALLIATIVE CARE
12 INSTITUTIONAL
1 FELLOW
3 HSPA RESIDENTS
OUTREACH & ENGAGEMENT:

The College of Pharmacy’s Outreach & Engagement Office improves the lives of patients through local and global community engagement.

The college was honored to receive a 2017 National Association of Chain Drug Stores (NACDS) Foundation Scholarship for Excellence in Education to support the Pharmacy Ambassadors Program and the Opioid Patient Education Program (OPEP).


This accolade is presented annually to one college or school of pharmacy demonstrating a major institutional commitment to addressing unmet community needs through education, practice, and research. The College of Pharmacy has demonstrated a commitment to improving the health and wellness of our communities, while providing exceptional educational experiences to students. Areas of priority include serving vulnerable populations through federally-qualified health centers, charitable pharmacies and free clinics; curriculum-based engagement; public education through programs such as Generation Rx; and global pharmacy advancement to impact global populations through programming at home and abroad.
Our Office of Continuing Education and Professional Development received accreditation by the Accreditation Council of Pharmacy Education (ACPE) to provide nationally-recognized continuing education.

This year, we provided 114 hours of continuing education credit to 219 pharmacists and trained 531 students.

We also offered 80 international training opportunities for students.

GenerationRx launched an online portal which connects and fosters discussion between pharmacists, K-12 educators, and community partners.

Drs. Ken Hale and Nicole Kwiek received a $40,000 Connect and Collaborate Grant from the Office of Outreach and Engagement to support the Opioid Patient Education Program and a partnership with OSU Extension to support opioid safety education in K-12 schools.

Collaboration is vital to the college’s success in Outreach and Engagement. We partner with organizations across the state and around the globe to better patients’ lives and to enhance our students’ learning experiences. For information on how to partner with the College of Pharmacy, go to the Engagement section of our website.
OUR IMPACT

RESEARCH:

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 bettering the lives of Ohioans and people across the globe. This year, the college was ranked 10th in NIH funding out of more than 130 schools of pharmacy.

QUICK STATS:

205 PEER REVIEWED PUBLICATIONS

83% INCREASE IN TOTAL RESEARCH DOLLARS FROM $6,667,420 (’15-’16) TO $12,178,429 (’16-’17)

71% INCREASE IN NIH DOLLARS FROM $6,185,498 (’15-’16) TO $10,555,910 (’16-’17)

16 INVENTIONS
34 PATENT FILINGS
4 LICENSES
11 ACTIVE LICENSING DEALS
• Recruited **Mark Mitton-Fry** to the Division of Medicinal Chemistry and Pharmacognosy, and **Kou-San Ju** to the Division of Medicinal Chemistry and Pharmacognosy, shared with the Department of Microbiology, through the Emerging and Re-emerging Infectious Diseases Focus Area of the University Discovery Themes program.

• Recruited **Macarius Donneyong** to the Division of Pharmacy Practice and Science in collaboration with the College of Public Health as part of the Translational Data Analytics Discovery Theme.
OUR RESOURCES

BUDGET:

<table>
<thead>
<tr>
<th>SOURCE TYPE</th>
<th>TOTAL AMOUNT</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIVERSITY FUNDS</td>
<td>$20,216,427</td>
<td>(56%)</td>
</tr>
<tr>
<td>RESEARCH FUNDS</td>
<td>$9,331,972</td>
<td>(26%)</td>
</tr>
<tr>
<td>EARNINGS FUNDS</td>
<td>$3,587,442</td>
<td>(10%)</td>
</tr>
<tr>
<td>DEVELOPMENT FUNDS</td>
<td>$1,938,525</td>
<td>(5%)</td>
</tr>
<tr>
<td>CONTRACTUAL AGREEMENTS</td>
<td>$632,522</td>
<td>(2%)</td>
</tr>
<tr>
<td>DESIGNATED FUNDS</td>
<td>$17,000</td>
<td>(0%)</td>
</tr>
<tr>
<td><strong>TOTAL FY17 YEAR-END SOURCES</strong></td>
<td><strong>$35,723,888</strong></td>
<td></td>
</tr>
</tbody>
</table>

THROUGH THE BUT FOR OHIO STATE CAMPAIGN, THE COLLEGE OF PHARMACY...

- EXCEEDED ITS **$20 MILLION** GOAL BY MORE THAN **$3 MILLION**;
- INCREASED ITS ENDOWMENT BY **31%** TO **$17.3 MILLION**; AND
- GREW ITS AVERAGE ANNUAL FUNDRAISING INCOME FROM **$1.4 MILLION** TO **$4.3 MILLION**.
Our Friends

Alumni & Donors:

The College of Pharmacy is home to incredibly generous alumni and donors who give back with their time, knowledge and financial support. For the first time since 2001, our Alumni Society was recognized as an "Outstanding Society" by The Ohio State University Alumni Association. We have 7,893 living alumni across the country and had our largest increase in donors (more than 1,400 donors) since 1984. We love our Buckeye family.

During the college's first ever Day of Giving in February, Dr. Mark and Ms. Linda Sirgo announced that they will match all gifts donated to the college's Facilities Fund up to $250,000 through the end of the 2017 calendar year. To learn about donating to the college, go to the Give section of our website.

Pharmacy had the largest increase of alumni giving back to the college from FY16-FY17 (8.4% increase) among all colleges and units at Ohio State.

10%↑
Increase in the number of donors, for annual giving (those gifts under 100,000)

9%↑
Increase in revenue

33%↑
Over the College of Pharmacy fundraising goal

* annual giving numbers