

UNC ESHELMAN
SCHOOL OF PHARMACY
CELEBRATING 125 YEARS OF
EXCELLENCE





Table of Contents

3	From Our Dean
4	Celebrating Our School
5	Vision, Mission and Values
6	BEYOND Strategic Plan
8	A Legacy of Learning
10	Pharm.D. Program
12	Ph.D. Program
14	MS Programs
15	Education Stories
20	Research Enterprise
22	Practice Advancement
24	Eshelman Institute for Innovation
26	Serving our State
28	Serving the World
30	Diversity, Equity and Inclusion
32	Philanthropy



From Our Dean

Celebrating 125 Years of Excellence

In 1897, our School was established under Dean Edward Vernon Howell with the vision of serving the health care needs of North Carolinians. The first pharmacy class boasted 17 students and one instructor, and tuition cost \$75 a year. From these humble beginnings, our Pharmily today is composed of 568 Pharm.D students, 148 graduate students, 70 Postdoctoral Fellows, 118 faculty, and 216 staff. Today, the UNC Eshelman School of Pharmacy continues to be the only public school of pharmacy in the state of North Carolina and one of the oldest in the nation. This year's impact report highlights the many milestones we celebrated this year, including:

- The 40th anniversary of the Division of Pharmacotherapy and Experimental Therapeutics' Fellowship Program
- 20+ years of the Community-based Pharmacy Residency Program
- The 15th anniversary of the Campbell Faculty Mentoring Program

We have remained committed to advancing our BEYOND Strategic Plan with impressive progress that is highlighted in the following pages. We also have much to celebrate regarding our teaching, learning, research, practice and service commitments. This year, I'm particularly excited about the following successes:

Teaching and Learning:

The School's Office of Experiential Programs received the American Association of Colleges of Pharmacy's Award of Excellence in Experiential Education.

Research and Scholarship:

This year we saw an increase of \$10 million coming into the school from grant funding, bringing the grand total to \$58 million in 2022.

Practice:

The School secured funds from the Dogwood Health Trust and the Duke Endowment to provide better resources and care for North Carolinians.



Awards:

Alumna Elizabeth Farrington, Pharm.D., was named president of the American College of Clinical Pharmacy and adjunct assistant professor Ouita Gattton was named president of the North Carolina Association of Pharmacists.

Eshelman Institute for Innovation:

The Rapidly Emerging Antiviral Drug Development Initiative continues to flourish after securing new funds and naming James Rosen as CEO.

Philanthropy:

UNC Eshelman School of Pharmacy Foundation closed a historic 8-year Campaign for Carolina with over \$205 million raised. This is the largest campaign of any pharmacy school and it allowed us to create a Signature Scholarship Program with more four-year scholarships than any other pharmacy school.

I encourage you to dive into this impact report and meet the people who make the UNC Eshelman School of Pharmacy the #1 Pharmacy School in the nation. It is my great honor to witness and support all that they have accomplished.

Angela Kashuba
Dean, UNC Eshelman School of Pharmacy



Celebrating Our School *A Year of Milestones*

It's been a year of celebrations and milestones for the UNC Eshelman School of Pharmacy. This year the School turned 125 years old. Established in 1897, UNC Eshelman is the only public school of pharmacy in North Carolina and one of the oldest in the nation.

That wasn't the only milestone in 2022. The school also marked 15 years of guidance and mentorship through the Campbell Faculty Mentoring Program, the Division of Pharmacotherapy and Experimental Therapeutics fellowship program celebrated four decades of developing new generations of leaders in the industry, the Community-based Pharmacy Residency Program marked 23 years of giving back to communities in North Carolina and the UNC Eshelman School of Pharmacy Foundation surpassed its original goal of \$175 million a year early, exceeding \$205 million raised in the Campaign for Carolina.

RANKINGS

#1

Pharmacy School
U.S. News & World Report

#2

Among Schools of Pharmacy
in NIH Total Research

#6

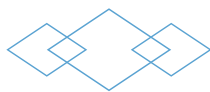
Pharmacy and Toxicology
U.S. News and World

#11

Best in Pharmacy and
Pharmaceutical Sciences 2020
Shanghai Ranking

#7

Pharmacy and Pharmacology,
QS Rankings



2022 MILESTONES



125th anniversary of the UNC
Eshelman School of Pharmacy

40th anniversary of the Division of
Pharmacotherapy and Experimental
Therapeutics' Fellowship Program

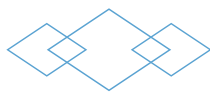


20+ years of the Community-based
Pharmacy Residency Program

15th anniversary of the Campbell
Faculty Mentoring Program



UNC Eshelman School of Pharmacy
Foundation will exceed **\$205 million** raised
in the Campaign for Carolina, surpassing our
\$175 million goal



BEYOND

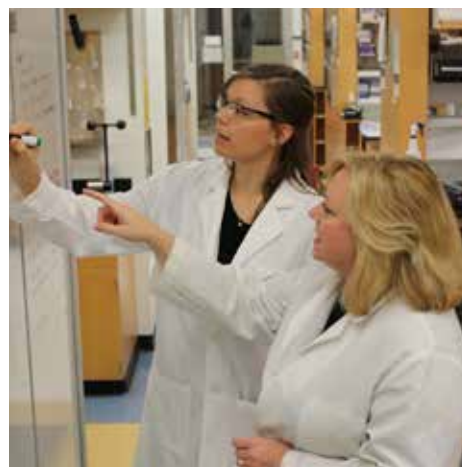
Strategic Plan Highlights

In February 2021, the UNC Eshelman School of Pharmacy Strategic Plan BEYOND was launched. We have developed a fiscal year reporting process, and are happy to share a summary of our accomplishments and goals. Highlights include:

For Priority 1, create the most engaging culture, we have implemented DEI education at orientation for Pharm.D., Ph.D. and postdoctoral students, faculty and staff, developed a wellbeing improvement plan with three core areas, resources and training, workload, and culture. We also created performance management training for all ESOP managers.

For Priority 2, accelerate innovation and transformational change in pharmacy and pharmaceutical sciences, we executed a campus-wide environmental scan for neurology research and presented a priority plan to the Vice Chancellor for Research focused on neurodevelopment disorders, neurodegenerative disorders and opioid use disorders. Our faculty is now leading interdisciplinary teams in each of these areas. We also increased READDI funding towards \$200M, launched online MS programs in Regulatory Science and Health Administration and a microcredential in Regulatory Sciences. We also developed a strategy to support and progress clinical pharmacy practice in rural and underserved settings across North Carolina.

For Priority 3, improve operating efficiency to invest in strategic areas, we developed a financial allocation model for the budgeting process for all units, developed a prioritization framework for financial impact analysis for all initiatives of the School, removed building debt and re-worked our go-to-market strategy and team. We also developed a new first-in-class scholarship program for our Pharm.D. students, raised funding towards EII sustainability, improved and upgraded some of our building spaces, developed a roadmap to optimize use of our current laboratory spaces and completed a financial framework to maintain our spaces and keep our technology current.



Scan the QR code to
review the full **BEYOND**
Strategic Plan





UNC Eshelman School of Pharmacy recognized as Leader in Diversity by the Triangle Business Journal

Recognized for its commitment to diversity and inclusion, the School was named a Triangle Business Journal 2022 Leader in Diversity

The TBJ said its Leaders in Diversity Awards program is “designed to recognize the accomplishments of Triangle businesses, individuals and nonprofits as they come together to weave a diverse foundational fabric into the heart of the local community.”

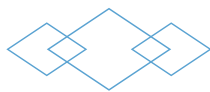
This year’s awardees consist of 20 winners, comprised of 10 individuals and 10 companies. The winners this year include groups from finance, health, education, law, a coffee shop, and an LGBTQ+ Chamber of Commerce. “We could not be prouder to be recognized among a group that make such clear differences in the lives of many across the triangle”, said Amanda Storyward, Program Manager for Organizational Diversity and Inclusion.

The honor of receiving this award as a school highlights the organizational approach that ESOP has taken toward making the school a place where everyone is welcome and celebrated. Among these efforts have been increased recruitment pathways

including many new assured admissions programs with North Carolina Universities, curriculum adaptations and reviews to improve the cultural intelligence of our courses, improved HR policies and procedures, and many preceptor and faculty development courses aimed at improving knowledge and practice of cultural intelligence across our didactic and experiential learning sites. These efforts include work from every corner of our school and from all of our staff, faculty, students and even many of our alumni. It has truly been a group effort and it continues to be an effort that has been invested in by our leadership and community.

As we enter our third year of strategic initiatives aimed at Recruiting and Retaining Diverse Talent, Preparing Culturally Intelligent Professionals, and Building and Inclusive Community, this recognition will further energize and excite the school community to continue moving forward, and have each part of the organization engaged in the work needed to build a strong and beautiful diverse community where everyone is included.





A LEGACY OF LEARNING

We are preparing the next generation of pharmacists, scientists and education leaders to care for patients and discover innovative solutions to the world's most challenging health care issues.



Pharm.D. Programs

- Pharm.D. Degree
- Pharm.D./MBA Degree
- Pharm.D./MPH Degree

Ph.D. in Pharmaceutical Sciences

- Drug Discovery: Chemical Biology and Medicinal Chemistry
- Drug Delivery: Pharmacoengineering and Molecular Pharmaceutics
- Drug Optimization: Pharmacotherapy and Experimental Therapeutics
- Patient Outcomes: Pharmaceutical Outcomes and Policy

M.S. in Health-Systems Pharmacy Administration

- Residential Program
- Online Program

Postdoctoral Fellowships

- NIH-sponsored
- Industry-sponsored
- Innovation and Entrepreneurship
- Global Engagement
- Center for Innovative Pharmacy Education and Research

Residency Programs

- Community Pharmacy
- Independent Pharmacy

Certificates (Academic)

- Rural Pharmacy Health Certificate
- Ambulatory Care Certificate

Certificates (Non-Academic)

- Molecules to Market: The Business of Translational Science (M2M)
- Teaching and Learning Certificate (TLC)

568
Professional
Students

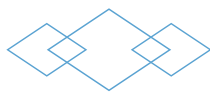
149
Graduate Students

128
Full-time Faculty

216
Staff

70
Postdoctoral
Fellows

2
Campuses



ASSURED ADMISSION PROGRAMS



New Bizzell Business of Health Care Pharmacy Lecture Series

This year, the pharmacy School proudly launched the Bizzell Business of Health Care Pharmacy Lecture Series, founded by generous Carolina alums Rob Bizzell, RPh '76, and his wife Suzanne Bizzell, a 1977 graduate of the UNC School of Global Public Health. Together, Rob and Suzanne opened Realo Discount Drug Store and were co-founders of Carolina Home Medical. They have since established multiple retail pharmacy locations throughout eastern North Carolina. Rob and Suzanne decided to endow the lecture series to emphasize the importance of pharmacy students to learn the business side of health care. The lecture series featured alumni speakers representing community pharmacy, clinical research organizations, entrepreneurship, industry, and hospital pharmacy.

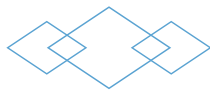


Pathways to Pharmacy Education

The UNC Eshelman School of Pharmacy and UNC Pembroke established an Early Assurance Program partnership this year, creating a seamless pathway for pre-pharmacy students.

The program offers early assurance of admission into the UNC Eshelman Doctor of Pharmacy Program after a minimum of two years of undergraduate study at UNCP. The first cohort of UNCP early assurance scholars will begin in fall 2023. Up to five students will be admitted each year.

UNCP is the fifth UNC Eshelman School of Pharmacy early assurance partnership, joining Western Carolina University, Appalachian State University, UNC-Asheville and UNC-Wilmington.



Pharm.D. Program

We are preparing the next generation of pharmacists to be patient care leaders and innovators in a wide range of practice settings.

What Makes Us Different -

a Message from Adam Persky, Associate Dean of Professional Education

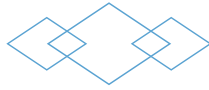
In January 2022, I was appointed as the Associate Dean of Professional Education for the Eshelman School of Pharmacy. As a faculty member for the last 18 years, I have been heavily involved in the Doctor of Pharmacy program. When I started, we led the nation in training Doctor of Pharmacy students and our 5-semester, hands-on, small group pharmaceutical care laboratory was envied by many other programs. Subsequently, other schools of pharmacy began to replicate this course series. Additionally, we had a capstone Problems in Pharmacotherapy course (lovingly named “Problems”) that provided students with the clinical reasoning and critical analysis skills needed to be successful during their final year of rotations. Historically, we have always led the way in pharmacy education. Fast forward to 2022, we are continuing to lead the way. Our hands-on laboratory experience was migrated to real life hands-on patient care experiences where our students now have three times more introductory pharmacy practice experiences than accreditation standards. Our innovative “Problems” course was expanded to a three semester integrative pharmacotherapy series which includes the same rigorous clinical reasoning and problem-solving skillsets.

Just as health-care providers use evidence-based medicine to provide quality, patient centered care, the School uses evidence-based education to inform our curriculum. To date, we lead the world in pharmacy education research, and we apply that knowledge daily in both our didactic and experiential curricula. Our curriculum is strategically scaffolded to have increasing complexity with each subsequent year. As the students’ progress through the curriculum,

support lessons, allowing our students to become increasingly more independent until the time of graduation. The classroom environment allows students to learn knowledge

and skills which can subsequently be applied in the clinical setting. As students return from their clinical training, they can reflect on their experiences, learn additional and more detailed knowledge, and then return to the clinical environment to continue to apply this information to real patients. This cycle repeats until the final year of advanced pharmacy practice experiences. Our goal is to graduate pharmacy students with the equivalent training of a resident half-way through their first post-graduate year. With a strong combination of detailed knowledge, skills and attitudes, our students can pursue a wide variety of careers they have always dreamed of. At the UNC Eshelman School of Pharmacy, we get students ready— ready for advanced pharmacy practice experiences; ready for board exams, and ready to offer patient care. We are the best school of pharmacy not only because of our curriculum, but because we bring in the best students and have the most passionate, dedicated, and skilled faculty in the world.





Signature Scholarship Program

Generous support for student scholarships inspired our Foundation to create a Signature Scholarship Program that outpaces national peers. Modeled on a blend of the Morehead-Cain and Carolina Covenant Scholarships, the program creates a cohort of 26 Pharm.D. students who receive half- to full-tuition

renewable scholarships paired with enrichment opportunities, including global pharmacy experiences, professional development, and service activities. This vanguard program will develop the next generation of pharmacy and pharmaceutical sciences leaders.

PHARM.D. PROGRAM BY THE NUMBERS

136

Graduates, Class of 2022

87%

Received 1st or 2nd choice Residency or Fellowship position upon graduation

97%

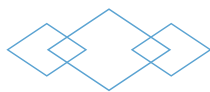
NAPLEX First- Time Pass Rate

6%

Increase in Completed Applications, 2021-2022 cycle

#1

Post Graduate year 1 residency matching rate among schools with 50+ students matching



Ph.D. and Postdoctoral Programs

The Ph.D. and postdoctoral programs prepare tomorrow's scientists for basic, translational, or health outcomes research careers in industry, government or academia.

Drug Discovery

Chemical Biology and Medicinal Chemistry

Drug Optimization

Pharmacotherapy and Experimental Therapeutics

Drug Delivery

Pharmacoengineering and Molecular Pharmaceutics

Patient Outcomes

Pharmaceutical Outcomes and Policy

Ph.D. Student Spotlights



Sarah Anne Howard and **Alyssa Holden**, Ph.D. candidates in the Division of Pharmacoengineering and Molecular Therapeutics, are recipients of the Graduate Research Fellowship from the National Science Foundation. The program recognizes and supports outstanding graduate students in STEM disciplines who are pursuing research-based master's and doctoral degrees at accredited US institutions.



Holli-Joi Martin, Ph.D. candidate in Division of Chemical Biology and Medicinal Chemistry, and **Jessica Beers**, Ph.D. candidate in the Division of Pharmacotherapy and Experimental Therapeutics, are recipients of the American Foundation for Pharmaceutical Education's (AFPE) 2022 Pre-Doctoral Fellowship. The goal of the fellowship is to support high performing students who will ultimately improve patient and public health.

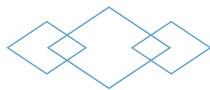
Industry Postdoctoral Fellowships

- Clinical Research and Drug Development
- Medical Affairs
- Global Drug Safety/Pharmacovigilance
- Pharmacokinetics/Pharmacodynamics/Pharmacometrics
- Global Regulatory Affairs
- Pharmaceutical Outcomes, Market Access and Health Informatics

NIH Postdoctoral Fellowships

- UNC-Duke Clinical Pharmacology T32 Postdoctoral Training Program
- Carolina Cancer Nanotechnology T32 Postdoctoral Training Program

For a complete list of postdoctoral fellowships, visit pharmacy.edu/education/fellowships



Dr. Edikan Ogunnaike, awarded an NINDS MOSAIC K99/R00 grant, aims to treat glioblastoma and increase diversity in biomedical science

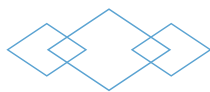
Edikan Ogunnaike, a postdoctoral researcher within the Alexander Kabanov Lab in the School's Division of Pharmacoengineering & Molecular Pharmaceutics, has received a Maximizing Opportunities for Scientific and Academic Independent Careers (MOSAIC) Career Transition Award to Promote Diversity (K99/R00) from the National Institute of Neurological Disorders and Stroke. The goal of her project, titled "Fibrin-CAR-T Cells Therapies to Enhance Efficacy in Glioblastoma Treatments," is to advance new therapies with a smart biomaterial for delivery of engineered t-cells against solid tumor interfaces to treat glioblastoma.

The MOSAIC program is part of the NIH's efforts to enhance diversity within the academic biomedical research workforce and is designed to facilitate the transition of promising postdoctoral researchers from diverse backgrounds. For example, individuals from groups underrepresented in the biomedical research workforce at the faculty level, into independent, tenure-track or equivalent research-intensive faculty positions.

Toward this goal, Ogunnaike will receive independent funding in two phases – first as a postdoctoral researcher to expand her knowledge of therapeutic delivery systems in solid tumors under the mentorship of Alexander Kabanov and Gianpietro Dotti at the UNC Eshleman School of Pharmacy and UNC Lineberger Comprehensive Cancer Center, respectively. Second, additional NIH funding for three years after she transitions to a tenure-track faculty position. Ogunnaike will participate, under the auspices of the American Society of Cell Biology, in cohort-based mentoring, networking and professional development activities to promote networking and enhance visibility in the faculty job market.



As a MOSAIC scholar, Ogunnaike aims to advance therapies that will improve clinical outcomes and participate in initiatives to increase diversity in biomedical science. More specifically, she is passionate about fostering inclusive and safe spaces for underserved researchers in nanobiotechnology, neuroscience and immune engineering. During her faculty career, she plans to continue mentoring students from Historically Black Colleges and Universities and at national meetings such as the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers and the Annual Biomedical Research Conference for Minoritized Students.



M.S. Programs

Master of Professional Science in Regulatory Science

The UNC Eshelman School of Pharmacy now offers a Master of Professional Science (MPS) in Regulatory Science, a one-of-a-kind program designed to impart on students a dynamic regulatory science skill set that is in high demand by employers in the health care industry. The first cohort will begin this online program in fall 2023.

The School understands the critical need for highly trained regulatory science professionals who bring value to product safety, efficacy and quality in order to confront the new global health care challenges that appear virtually every day in today's world.

Graduates of this professional master's program will be prepared to become leaders in public health,



global compliance standards and consumer safety, developing the critical skills necessary to drive innovation in pharmaceutical products from concept to market and beyond. These future leaders will work on the forefront of health care innovation.

M.S. HSPAL Update

In Spring 2022, our M.S. program in Pharmaceutical Sciences with a specialization in health-system pharmacy administration graduated its first online cohort. This program prepares future health care leaders to manage highly complex and multi-faceted pharmacy enterprise operations. This year our program expanded practice sites to Novant Health (Charlotte and Winston-Salem market) and Novant Health New Hanover Regional. Currently, our residency program is offered in collaboration with the following:



2

Programs

52

Enrolled Students

11

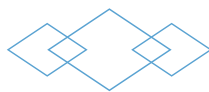
Partners

100%

Students Placed

103

Alumni



CIPhER Activities and Achievements

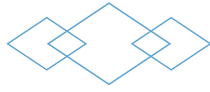


The Center for Innovative Pharmacy Education & Research (CIPhER) provides educators and education scholars with innovative, evidence-based professional development programs and support. CIPhER's mission is to enhance the quality, effectiveness and efficiency of pharmacy and pharmaceutical sciences education practice and research. Led by Director Jacqui McLaughlin, Ph.D. and Assistant Director Kathryn Morbitzer, PharmD, CIPhER strives to expand its impact on education through world-class programming, innovative research, and evidence-based training and support to the School and beyond.

In 2021-2022, CIPhER offered 16 educator development programs focused on promoting the quality and effectiveness of education practice. Topics included curriculum design, well-being and resiliency, graduate education, precepting, research methods, and diversity, equity, and inclusion. In addition, CIPhER continued to host its hallmark programs: the Summer Institute, a four-day synchronous program focused on teaching and learning best practices, the Scholarship of Teaching & Learning Bootcamp, a two-day synchronous program focused on research in teaching and learning,

the Instructional Coaching Program, a two-hour synchronous teaching consult, and the Teaching and Learning Certificate, an asynchronous program focused on teaching and learning basics.

During the 2021-2022 academic year, CIPhER designed, implemented, presented, and published original research and scholarship across health professions education. These efforts resulted in more than 30 peer reviewed publications, 30 conference presentations, and 25 invited talks. Topics included cultural intelligence, peer assessment, interprofessional education, grading practices, core concepts, design thinking, and professional identity. Presentations were given at professional meetings for the American Association of Colleges of Pharmacy, the American College of Clinical Pharmacy, the American Educational Research Association, the American Society of Health System Pharmacists, the Association for the Study of Higher Education, and the Australasian Pharmaceutical Science Association. Grant funding included American Association of Colleges of Pharmacy, American Society of Health System Pharmacists, and National Institute of General Medical Sciences.



Office of Experiential Programs receives American Association of Colleges of Pharmacy Excellence Award

The UNC Eshelman School of Pharmacy's Office of Experiential Programs recently received the American Association of Colleges of Pharmacy's (AACP) Award of Excellence in Experiential Education.

The national award is presented annually to one deserving individual or group of individuals for their outstanding contribution to the world of experiential education. Due to the challenging events surrounding 2020, the Experiential Education Section Awards Committee, with support from AACP, decided to recognize all members of Experiential Education Departments at each pharmacy institution for their tremendous efforts in keeping programs operational despite pandemic-related challenges.

"The efforts to alter experiential curricula, identify alternate rotations, support students in an ever changing environment, develop and implement workflows for COVID-19 exposure and symptom management, adjust to new site onboarding requirements, and develop our preceptors to support remote learning all while maintaining baseline workflows is incredible," said Nicki Reitter, Pharm.D., M.S., assistant dean of Experiential Programs at the School. "This award recognizes and exemplifies the work of our experiential programs team at the School along with regional/site leadership across the state, over 300 experiential sites and more than 1,000 preceptors."

The UNC Eshelman School of Pharmacy's Office of Experiential Programs aims to design and deliver innovative practice experiences complemented by contextual learning that results in the development of exemplary graduates ready to provide high-quality, team-based, patient-centered care.



Throughout the pandemic, Reitter said the School's experiential team, as well as regional site leadership, worked around the clock to ensure completion of experiential hours so students could graduate on-time.

"Our tremendous faculty and preceptors have been working on the frontlines during this pandemic, remained committed to training our students while altering learning experience modalities, and did all of this amid rapidly changing practice models at their sites," Reitter said.

She added that community pharmacy and non-patient facing sites for the program accommodated UNC Eshelman School of Pharmacy students when they were displaced from major health systems across the state. Faculty and administrators in Chapel Hill and Asheville also offered academic rotations and interprofessional telehealth experiences when spaces for students were limited.





Student and School Recognition

Faculty Honors and Recognitions

Alexander V. Kabanov, Ph.D., Dr.Sci., received the Controlled Release Society Founder's Award

Alexander V. Kabanov, Ph.D., Dr.Sci. was inducted as a 2021 fellows of the American Association for the Advancement of Science

Leaf Hung, Ph.D., and **Kristy Ainslie, Ph.D.**, were inducted as Controlled Release Society fellows

Alison Axtman, Ph.D., was a recipient of the inaugural BBA General Subjects Rising Star award.

Stephen Frye, Ph.D., elected as a fellow of the American Association for the Advancement of Science.

Alexander Tropsha, Ph.D., elected as a fellow of the American Institute for Medical and Biological Engineering.

Herb Patterson, Pharm.D., was selected as the 2021 Fred M. Eckel Pharmacy Leadership Award Recipient

Ouita Gatton, RPh, president-elect of the North Carolina Association of Pharmacists

Bill Zamboni, Pharm.D., Ph.D., was appointed as a member of the Pharmaceutical Science and Clinical Pharmacology Advisory Committee of the US Food and Drug Administration.

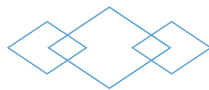
Klarissa Jackson, Ph.D., received the 2022 ASPET Division for Translational and Clinical Pharmacology Early Career Award.

Kathryn Morbitzer, Pharm.D., M.S., and **Michael Wolcott, Pharm.D., Ph.D.**, received the 2022 American Association of Colleges of Pharmacy New Investigator Award

Greene Shepherd, Pharm.D., Elected treasurer for the American Academy of Clinical Toxicology

Sachi Ozawa, Ph.D., M.H.S., Appointed as a Fellow in the Carolina Population Center

Kimberly Sanders, Pharm.D., receives UNC's inaugural Julie S. Byerley Interprofessional Faculty Award



Student Honors and Recognitions

Pharm.D. candidates **Haley Simkins** and **Brandyn Wilcox** have been named North Carolina Area Health Education Centers (NC AHEC) Scholars

Pharm.D. candidate **Jacob Robinson** received the AFPE Gateway to Research Award

Phillip Hughes, Ph.D. student, received the UNC 2022 Impact Award

Pharm.D. candidates **Cami Andreini** and **Julia Fabricio** created a five-part ambulatory care workshop series

Pharm.D. candidate **Neel Swamy** was selected to participate in the Centers for Disease Control and Prevention's Pharmacy Student Experiential Program

Alyiah Cruz, Pharm.D., received the American Society of Health-System Pharmacists Student Leadership Award

Master's student **Gregory Norsten**, Pharm.D., received the American Society of Health-System Pharmacists Pharmacy Resident Research Grant

Ph.D. candidate **Sarah Anne Howard** received the National Science Foundation's Graduate Research Fellowship

Ph.D. candidate **Anthony Hazelton** received a T32 pharmacological sciences training program fellowship award from the NIH's National Institute of General Medical Sciences

Ph.D. candidate **Rebeca Stiepel** received the School's 2022 Kathryn A. Brewington Graduate Research Award

Postdoctoral student **Brianna Vickerman, Ph.D.**, and Ph.D. candidate **David Lee** were recipients of the The Eshelman Institute for Innovation Rankin Innovator Acceleration Award

Ph.D. candidate **Alyssa Holden** received the National Science Foundation's Graduate Research Fellowship (NSF GRFP).

Pharm.D. candidate **Tom Diaz** received the 2022 Space Medicine Association Medical and Graduate Education Scholarship

Pharm.D. candidate **Vany Nguyen** was the recipient of the Whaley Family Scholarship

Pharm.D. candidate **Eric Arrington** received the Tab and Denise Waldrop Endowed Scholarship

Pharm.D. candidate **Maggie Fogle** received the David A. Rogers, Sr. and Dr. T.Y. Su Memorial Scholarship Fund

Pharm.D. candidate **Bethany Benzos'** findings from a vaping study were published in the Journal of Pediatric Health Care

Dylan Hendy, Ph.D., was awarded the Trainee Award from the Controlled Release Society Immuno Delivery Focus Group

Sarah Anne Howard, Ph.D., was awarded a Graduate Research Fellowship from the National Science Foundation

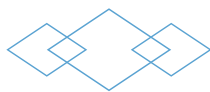
Postdoctoral fellows **Anh Nguyen, Pharm.D.**, and **Julia Quintanilha, Ph.D.**, were selected as American Society of Clinical Pharmacology and Therapeutics (ASCPT) Presidential Trainees.

Graduate students **Jessica Beers** and **Chitra Saran** were each selected as a Highlighted Trainee Author in the American Society for Pharmacology and Experimental Therapeutics (ASPET) journals

Pharm.D. candidate **Kaley Hart** was the winner of the Local Competition for National Patient Counseling Competition

Pharm.D. candidates **Pamela Vega** & **Megan Byrne** were awarded 1st place for 2022 ASHP-SSHP Clinical Skills Competition

Postdoctoral student **Brianna Vickerman, Ph.D.**, named a 2022 EII Rankin Innovator Award recipient, was also awarded first place in the LifeX Accelerator Program for technology commercialization



Research Enterprise

Our researchers and scientists are working on the world's most challenging health issues ranging from cancer and cardiovascular disease to neurological disorders and medication management.

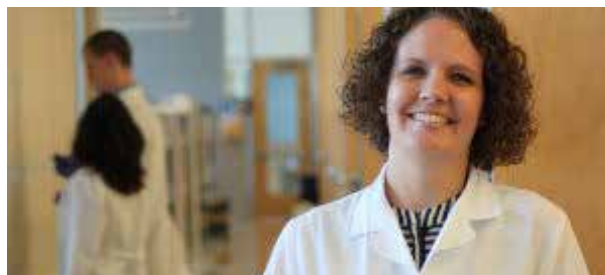
Researcher Spotlights:



UNC-Chapel Hill receives \$65M from NIH for antiviral drug development center

The National Institute of Allergy and Infectious Diseases, part of the National Institutes of Health awarded the UNC Gillings School of Global Public Health a \$65 million grant establishing an Antiviral Drug Discovery Center to develop oral antivirals that can combat pandemic-level viruses like COVID-19. The center builds upon and is tightly affiliated with UNC's Rapidly Emerging Antiviral Drug Development Initiative.

"Investment in antiviral drug discovery through open science is the best way to ensure that the world is prepared for the next pandemic," said Tim Willson, Ph.D., co-director and professor at the UNC Eshelman School of Pharmacy. "READDI-AC will leverage open science to support the development of antiviral drugs that are affordable and available to all."



Kristy Ainslie works to develop new therapy for glioblastoma patients, receives \$1.7 million from NIH to pursue research

The National Institutes of Health's National Cancer Institute has awarded Kristy Ainslie, Ph.D. with a \$1,761,616 grant to develop a new therapy for glioblastoma – the most common primary brain tumor in the United States.

Ainslie's five-year award will support her work, "Tunable Temporal Drug Release for Optimized Synergistic Combination Therapy of Glioblastoma," which aims to utilize combination therapy that is implanted into the brain at the time of a patient's tumor resection surgery.

"Glioblastoma is a devastating brain cancer that needs new treatment options because even with chemotherapy, radiation, and surgical resection, tumor recurrence almost always leads to death," Ainslie said. "One day we hope to translate this work to the clinic to better treat this difficult and lethal cancer."

\$58m
Research Grants

#2
Total Research
Funding

#2
Among Schools of
Pharmacy in NIH Total
Research Funding

21
New Invention
Disclosures

10
U.S. Patents Issued



Celebration of Inventorship

Samuel Lai

Patent No. 10,829,543
Compositions and Methods for
Inhibiting Pathogen Infections

Patent No. 10,793,623
Optimized Crosslinkers for Trapping a
Target on a Substrate

William McKay Gilliland, Jr.

Patent No. 10,867,781
Electrospray Ionization Interface to
High Pressure Mass Spectrometry and
Related Methods

Jing Wan

Patent No. 10,709,708
Methods for the Treatment of Cancer

Shawn D. Hingtgen

Patent No. 11,027,047
Delivery Vehicles for Stem Cells and
Uses Thereof

Xiaodong Wang

Patent No. 10,703,746
Mutant IDH1 Inhibitors Useful for
Treating Cancer

Patent No. 10,836,759
Thiazole Derivatives Useful As Mutant
IDH1 Inhibitors For Treating Cancer

Xiaodong Wang; Stephen V. Frye

Patent No. 11,001,586
Alkyl Pyrrolopyrimidine Analogs and
Methods of Making and Using Same

Xin Ming; Lindsey Ingerman James

Patent No. 11,040,056
Benzimidazoles That Enhance The
Activity Of Oligonucleotides

Federico Innocenti

Patent No. 11,028,448
Methods of Identifying Risk of
Bevacizumab-Induced Proteinuria and
Hypertension



Grant Spotlights

Shawn Hingtgen | NIH | \$4,598,428

A consortium effort to translate
therapies for neurological diseases via
an ex vivo organotypic platform

Kathleen Thomas | PCORI | \$4,249,956

Improving the health of adolescents and
transition-age youth with IDD

Gauri Rao | NIH | \$3,607,598

Development of a broad spectrum
teixobactin-lipopeptide hybrid for the
treatment of lung infections caused by
pan-drug resistant 'superbugs'

Jeff Aube | NIH | \$3,136,536

Discovery of Phosphopantetheinyl
Transferase Inhibitors Against
Mycobacterium tuberculosis

Kim Brouwer | NIH | \$3,105,774

Mechanisms of Altered Hepatic
Transport: Impact on Drug Therapy

Alexander Kabanov | NIH | \$ 2,452,236

Toward Translation Of Nanofabricated
Paclitaxel-Platinum Combination

Andrew Lee | NIH | \$2,310,820

Request for a 500 MHz NMR console
and nitrogen-cooled cryoprobe

Andrew Lee | NIH | \$2,310,820

Mechanisms and dynamics of allosteric
function in proteins

SGC - Willson Moorman | NC State Appropriations | \$2,206,050

Rapidly Emerging Antiviral Drug
Development Initiative (READDI) -
Project 3

Shawn Hingtgen | NIH | \$2,196,024

Harnessing Continuous Liquid Interface
3D Printing to Improve Tumor-homing
Stem Cell Therapy for Post-surgical
Brain Cancer

Lauren Haar | NIH | \$1,943,750

Optogenetic protein design for
hypertrophic signaling pathways

Rihe Liu | NIH | \$1,894,616

A Wholly Protein-based Self-assembly
Nanoplatfor m for TNBC-specific
Combination Therapy

Xiaodong Wang | NIH | \$1,550,780

Novel TYRO3 inhibitors for treatment of
cancer

Jennifer Elston Lafata | AHRQ | \$1,500,000

Development of a Shared Decision
Making Support (SDM-S) Measure for
Use with Team-based Care

CICBDD - Pearce Moorman | NC State Appropriations | \$ 1,103,025

Rapidly Emerging Antiviral Drug
Development Initiative (READDI) -
Project 9

Daniel Crona | DOD | \$933,000

PC200350 - Discovery of a First-In-
Class MPP8 Antagonist to Reverse
Lineage Plasticity in Treatment-
Resistant Prostate Cancer

Daniel Crona | ACS | \$792,000

Chemically catalyzed epigenetic gene
regulation in renal cell carcinoma



Practice Advancements

We are working across the continuum of care to optimize medication use for patients, improve patient outcomes and transform the role of Pharmacists in providing patient-centered team-based care.

Rural Research Alliance of Community Pharmacies

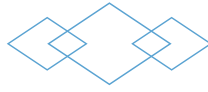
Rural Research Alliance of Community Pharmacies, or RURAL-CP, is the first multi-state practice based research network developed exclusively for rural community pharmacies. It is an elite network of 100 rural community pharmacies spanning seven southeastern states and the only network of its kind in the United States. Pharmacies within the network will collaborate with colleges of pharmacy to identify and address societal, community, and professional questions that relate to medication use and pharmacy practice.

RURAL-CP is directed by Delesha Carpenter, PhD, MSPH, an associate professor and Interim Chair in the Division of Pharmaceutical Outcomes and Policy. Her research focuses on developing trainings to improve patient-provider communication about sensitive issues, like suicide and substance abuse use disorders. She is especially interested in improving access to healthcare services in rural areas. Stephanie Kiser, PharmD, Director of Rural Health at the School and Director of Interprofessional Education and Practice at MAHEC, is also member of the RURAL-CP team.



Catalyst Event Identifies Priorities and Gaps in Population Health Management

Jon Easter and Stefanie Ferreri worked with the Alliance for Integrated Medication Management to host a Catalyst event this year. This event brought together pharmacists, providers, health systems and payer groups from across North Carolina to uncover priorities, needs and gaps in population health management. Their vision is to establish North Carolina as a leading example of state-wide collaboration to expand the reach and adoption of patient care services that optimize medication use and improve health for patients throughout the state. Discussions focused on effective, scalable models of care and generating funding arrangements. The catalyst event series will continue in spring 2023.



Community-based Pharmacy Residency Program (CPRP)

This year we also celebrated the 20+ years of our Community-based Pharmacy Residency Program. This program was established in 2000 and is one of the oldest accredited residency programs of its kind in the nation. Our program is also currently the largest program in the nation. The goal of the CPRP is to prepare our students to be an innovative clinical practitioner who can be a leader in the profession. They will develop the skills, confidence, and experience to create change and advance patient care services in community-based (outpatient) settings.

Our program includes a variety of innovative sites across the state of North Carolina in independent community pharmacy, chain community pharmacy, campus health pharmacy, and ambulatory care settings. Each site is centered around a community pharmacy that focuses on providing medication management, health and wellness services, immunizations, disease state management, and care transitions services.

The 2022 graduating class of the UNC PGY1 Community-based Pharmacy Residency Program included 10 residents at eight innovative sites across the state of North Carolina. We were proud to offer our first community-based pharmacy sites within an integrated healthcare system through partnership with UNC Health – Carolina Care Pharmacy Network and Transitions of Care Services and UNC Health – Specialty and Home Delivery Pharmacy. Our program graduated our 135th resident, as well as our 2nd Community-based Psychiatry Fellow.

Duke Endowment Grants Totaling \$1.5M to Support our Strategic Plan

Betsy Sleath led the efforts to secure a \$815,000 grant from The Duke Endowment to provide better care at a lower cost to all patients. The Rural Pharmacy Health Initiative is a unique educational program



that stretches across North Carolina to forge a path for better health for underserved communities. Program features include Student Recruitment, Rural Pharmacy Scholarships and Residencies, and Rural Pharmacy Hubs. The goals of this initiative are to 1) double rural representation in the future pharmacy workforce. 2) Improve patient health and economics in rural communities. 3) Develop proven models of care for regional and nation impact.

Mollie Scott recently received a \$705,000 grant from The Duke Endowment to support the implementation of pharmacist-provided hormonal contraception across the state of North



Carolina. House Bill 96, passed by the North Carolina legislature in 2021, allows immunizing pharmacists to initiate birth control patches and pills after completing training provided by the North Carolina Association of Pharmacists.



Eshelman Institute for Innovation

Forging a game-changing approach to translating bold new ideas into real-world impact for patients.

Faculty excel in their fields; they do not excel in commercialization. The Eshelman Institute for Innovation supports the translation process by challenging each innovation to meet industry-relevant milestones or fail early. The result is a unique entity focused on real-world impact for patients, financial return to UNC-Chapel Hill and economic development for North Carolina. Our vision is for the Eshelman Institute for Innovation to be a preeminent driver of cutting-edge technologies that solve the most pressing healthcare challenges. The UNC Pharmacy Foundation works closely with the Eshelman Institute for Innovation's leadership team to support the development of partnerships and sustainability initiatives to make our ambitious plans a reality.

FOCUS AREAS



INFECTIOUS DISEASE



ONCOLOGY



NEUROSCIENCES



DIGITAL HEALTH

\$32.1m

Grants Awarded
since 2015

165

Projects Funded

197

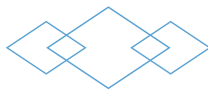
PharmD, Ph.D., Postdocs
Supported and Trained
since 2015

6

EII Postdoc Fellows
since 2015

105

High School Students
since 2015



Powering ideas into real-world impact for patients

Nine months before the COVID-19 pandemic disrupted the world, Carolina's Eshelman Institute for Innovation funded a research project led by three renowned Carolina virologists aimed at developing novel antiviral drugs.

The institute team partnered with these co-founders to build the initial concept into a global public-private partnership called READDI, or the Rapidly Emerging Antiviral Drug Development Initiative, who's tagline is: "The best time to fight a global pandemic is now. And always."

Funding rolled in, most recently \$65 million from the National Institutes of Health to develop an Antiviral Drug Discovery Center. And READDI was included in the 100 Day Mission strategy presented at the G7 meeting last year by the UK Prime Minister's cabinet office.

The pace of innovation over the past three years at the Eshelman Institute for Innovation has been blistering. In addition to launching READDI, new pan-university initiatives aimed at translating bold new ideas from faculty into real-world impact for patients have been launched. The institute helped support the launch of the Drug Discovery Initiative to provide access to new technologies and partners to advance therapeutic programs.

"The institute, under John Bamforth's leadership, has become what it was envisioned to be: an engine to translate raw ideas into high impact solutions," said Angela Kashuba, dean of the UNC Eshelman School of Pharmacy.



Digital Health Venture Studio Accelerates Innovation

Gaining traction over the past few years, venture studios build companies rapidly from start to finish. The venture studio model has been proven to reduce risk and drive success.

Bob Dieterle, an entrepreneur-in-residence with the Eshelman Institute for Innovation, spearheaded a collaboration with UNC Health to bring this novel approach to UNC to support the commercialization of digital health research. The Eshelman Institute engaged high-profile partners including High Alpha Innovation, Amazon, and Microsoft to build the first university-based digital health venture studio in the country.

James Rosen named CEO of READDI

James "Jimmy" Rosen has been named inaugural CEO of the Rapidly Emerging Antiviral Drug Development Initiative, the Carolina-based global non-profit organization that brings together



leaders from industry, government, philanthropic organizations and academic research institutions to rapidly and efficiently develop novel drugs.



Scan the QR code for the full Eshelman Institute for Innovation Impact Report



From Serving the State...

At the UNC Eshelman School of Pharmacy, everything we do begins and ends with a patient in mind. Guided by our three-year BEYOND strategic plan and UNC's Carolina Next: Innovations for Public Good roadmap, we are working to better pharmacy practice and pharmaceutical sciences to benefit all patients in the Tar Heel State. Together, we are Advancing Medicine for Life.

EASTERN N.C.

Betsy Sleath, Ph.D., is the Regional Associate Dean for Eastern North Carolina. In this role, Dr. Sleath develops new strategic partnerships between the School and other units on campus, other post secondary institutions, new and existing health care systems, and other stakeholders in eastern North Carolina. She also leads the Eastern North Carolina advisory committee to bring potential partners, alumni, and faculty together to select those opportunities that will best serve our state and enrich our School.

The UNC Eshelman School of Pharmacy currently has these priorities in Eastern North Carolina: 1) Develop new educational and training opportunities with UNC Health Sciences at SEAHEC, UNC-Wilmington, ECU, and other partners in Eastern



North Carolina; 2) Expand research, economic, and innovation partnerships in Eastern North Carolina with UNC Health Sciences at SEAHEC, UNC-Wilmington, ECU, and other partners in Eastern North Carolina; 3) Strengthen our relationships, partnerships, and pharmacy practice in Eastern North Carolina.



Formation of the Eastern Advisory Board

The UNC Eshelman School of Pharmacy is proud to announce the formation of the Eastern Advisory Board in April 2022. The board is a select group of pharmacy alumni and partners whose mission is to advance recruitment, training, practice, research and service in Eastern North Carolina.



WESTERN N.C.



Mollie Scott, Pharm.D. BCACP, CPP, FASHP, serves as the Regional Associate Dean for the School and oversees the operations of the School's regional campus in Asheville. She collaborates with leaders at UNC Health Sciences at MAHEC including UNC School of Medicine, UNC Gillings School of Global Public Health and UNC Adams School of Dentistry to advance interprofessional primary care and rural health education, practice, and research.

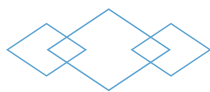
MAHEC Partnership

The UNC Eshelman School of Pharmacy recently strengthened our partnership with Mountain Area Health Education Center as part of our commitment to serving as a leader in rural ambulatory care pharmacy practice. MAHEC transitioned to a Federally Qualified Health Center look-alike in 2022 to enhance their mission to care for marginalized populations, and will open two 340B pharmacies in January 2023 on the Biltmore and Enka/Candler campuses. The Department of Pharmacotherapy has re-organized to better serve patients across all MAHEC clinics, and Mollie Scott has been named Chair of Pharmacotherapy in addition to her ongoing role as Regional Associate Dean. Multiple UNC-Chapel Hill alumni are serving in leadership roles in the new Department, including Bill Hitch (Vice Chair) Rebecca Grandy (Administrative Director), Matt Ransom (Director of 340B Pharmacy Services) Rachel Selinger (340B Pharmacy Manager, Biltmore) and Jenna Caldwell



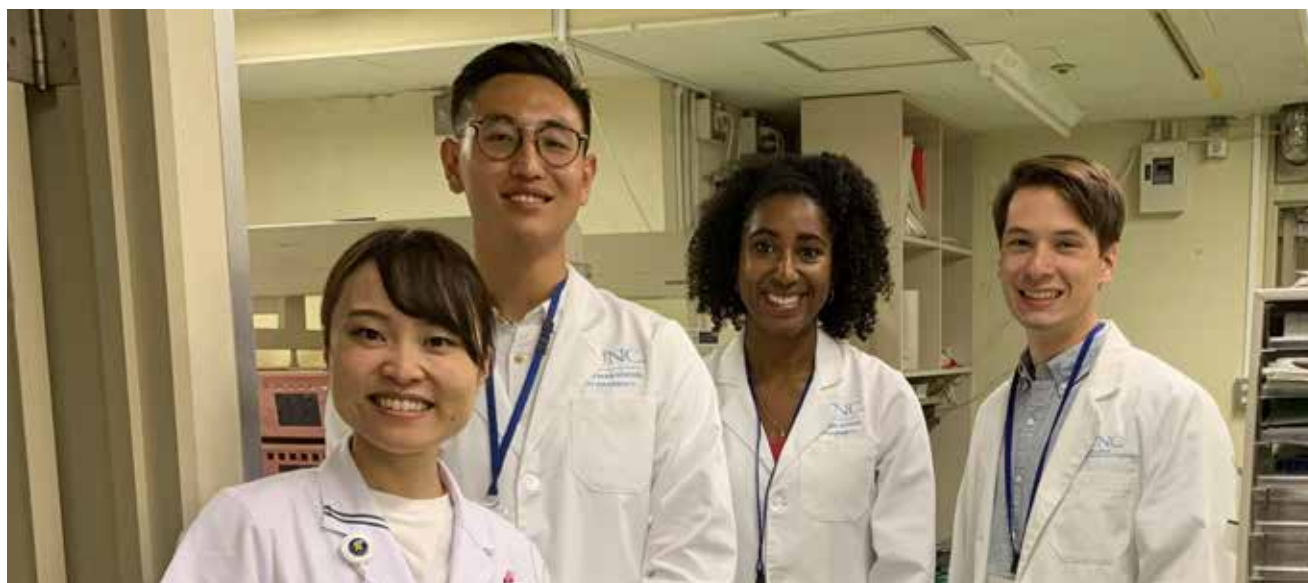
(340B Pharmacy Manager, Enka/Candler). The 340B Pharmacy will serve as a teaching pharmacy for interprofessional students as they learn about caring for the underserved.





To Serving the World

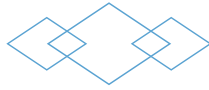
We are developing citizens of the world who will serve diverse patient populations in a variety of practice settings in local, national, and global communities.



A Message From Stephen Eckel, Associate Dean for Global Engagement

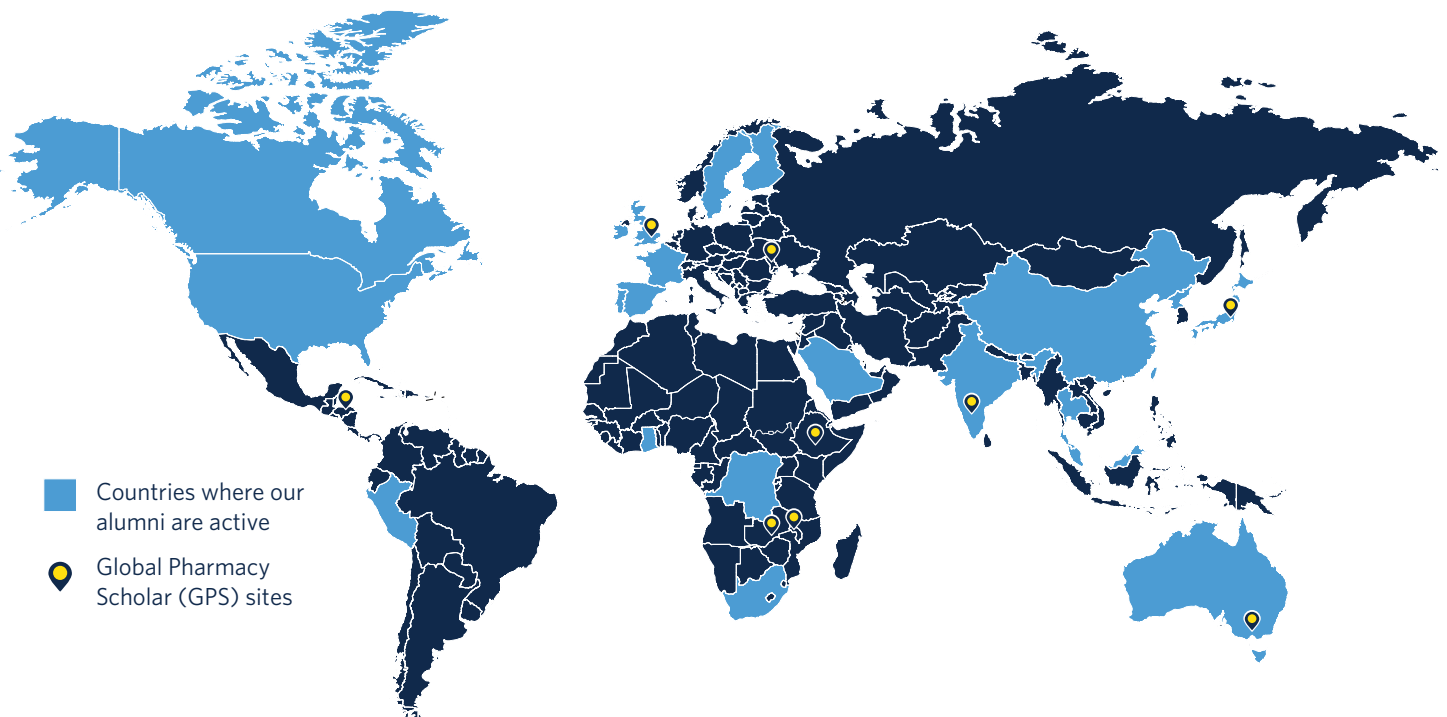
Many times I get asked about the impact of global engagement during the COVID pandemic. While we have not been hosting international guests and traveling to various cities to visit, our engagement with others has not stopped. The impact of virtual platforms allow you to have in meetings in the morning in Europe or the Middle East and afternoon interactions with Australia. In some ways our interactions have been deeper and more meaningful, because we utilize every opportunity to see how others are coping as we have not had the opportunity to see each other at various meetings. During the past year, we have re-started the Global Pharmacy Scholars program, sending our first students abroad in over 2 years to Tokyo in July. This has been followed up with 9 pharmacy students throughout the fall traveling to Malawi. Our office is supporting a local Malawian pharmacist who is our main preceptor in country. Besides ensuring these students are safe and remain healthy during

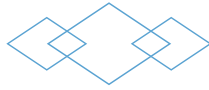
their travels, we are so excited that they have the opportunity to experience the world. We hope to deepen their understanding of various cultures that they can bring back to NC as they work as pharmacists, realizing that our state is very diverse. In addition to the students traveling, many of our faculty are back speaking and attending international meetings. Our PharmAlliance partnership remains strong and vibrant, having the opportunity to see everyone this past fall in London. While mobility has returned, our use of virtual platforms has continued. We held our annual summer school whereby global students get a chance to learn from our world renowned faculty and excellent graduate students. Our goal over the next few years is to continue to expose our students to global engagement throughout the curriculum and to utilize opportunities for other students to interact with our faculty.



PharmAlliance statistics:

- Expanded leadership roles within the Partnership, adding 13 positions to the leadership team, most of which were filled by early-career researchers and junior faculty
- Expanded student-designed, student-led vaccine champion workshop to a total of five countries (UK, US, Australia, France, Malawi) and presented results at The International Pharmaceutical Federation
- Continued to grow outward facing publication: PharmAlliance Policy Pulse on Practice and published transitions of care edition in May 2022
- Published seven peer-reviewed papers with an average impact factor of 3.56
- Co-presented 5 special sessions at AACP 2022 Pharmacy Education Conference
- Transitioned back to an in-person PharmAlliance Week with virtual access. We held 13 hybrid, open access events with more than 600 attendances. Recordings available on PharmAlliance.org
- Held six additional events focused on our educational community of practice, student showcase presentations, and early-career researcher networking. Recordings available on PharmAlliance.org





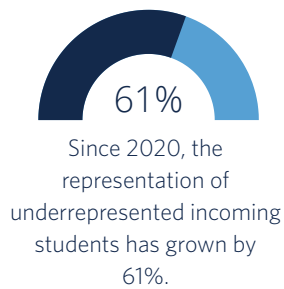
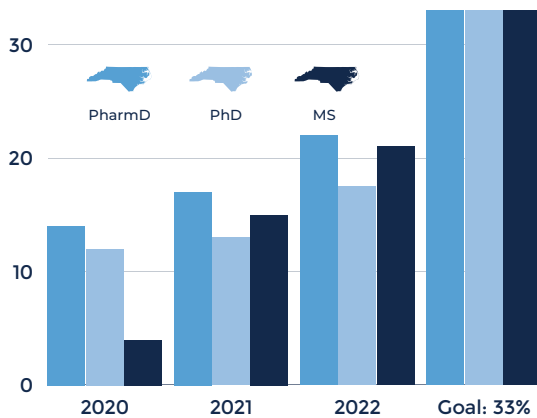
Diversity and Inclusion

Creating a diverse and inclusive community of people who will accelerate new thinking and ideas in education, research and practice that improve human health worldwide.

WE are Committed and Invested

Recruiting and Retaining Diverse Talent

Percentage of underrepresented students:



WE are staying the course

Preparing Culturally Intelligent Professionals

99+ Faculty and Staff

Attended CIPhER led inclusive teaching educator development

5 Courses across Pharm.D., Ph.D., and M.S. Programs

Piloted the Cultural Intelligence Framework

18 Course Syllabi Environmental Scan

Reviewed and recommendations sent to Curricular Assessment Committee

Pharm.D., Ph.D., and M.S. Students reported feeling connected and respected 5.0/5.0 and rated the cultural diversity content 4.8/5.0 on course evaluations.

WE are learning and celebrating our strengths and differences and leveraging them to solve the world's most pressing problems

800+

ESOP Engaged in Community Building Events

15

Events Held to Celebrate Identity, Culture, and Togetherness

100+

Students Engaged in Social Capital and Professional Development Initiatives

12

Publications Related to DEI

15

National Presentations Related to DEI

4

New Early Assurance Programs

\$208,000

Nuventra Innovation Fellowship

\$1.5M

McKesson Foundation grants



UNC Eshelman School of Pharmacy receives grant from the McKesson Foundation to help close diversity gap and improve health outcomes

To help increase the diversity of the pharmacy workforce and improve overall health outcomes for vulnerable populations, the UNC Eshelman School of Pharmacy has announced two grants of more than \$1.5 million over three years from the McKesson Foundation. The donations support the creation of two programs to strengthen diversity at the school and to improve access and care for patients in rural and underserved areas of North Carolina.

The school received more than \$850,000 to launch the McKesson Leading Excellence, Advancing Diversity (LEAD) program. The program will be led by the school's Office of Organizational Diversity and Inclusion to build a diverse pharmacy workforce and enable empathetic, high-quality, accessible care for all patients.

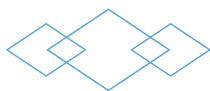
Nearly \$700,000 was awarded to the school for the McKesson Caring for the Underserved: Creating Awareness and Responsiveness through Education (CARE) program, which will develop a training curriculum to equip students and pharmacists with knowledge and skills to recognize and address health disparities and care for the underserved.

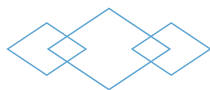
"The innovative student support, professional development, and community outreach that the McKesson Foundation is funding through pharmacy school partnerships, like the one with

the UNC Eshelman School of Pharmacy, will help transform patient-pharmacist interactions," said Melissa Thompson, vice president of philanthropic giving and president of the McKesson Foundation. "We believe these types of partnerships will lead to improved health equity and patient outcomes for vulnerable populations in their respective areas, as well as establish program templates that can be replicated in other locations."

The McKesson LEAD program will recruit talented students from diverse and underserved communities by building partnerships with historically black colleges and universities (HBCU) throughout North Carolina. The program will establish recruiting pipelines, expand assured admissions policies to students at North Carolina HBCU's and create mentorship support for admitted students.

"The McKesson LEAD program demonstrates a shared value and strategic actions to produce a diverse, inclusive, and culturally intelligent pharmacy workforce," said Carla White, associate dean of organizational diversity and inclusion at the school. "This program will play a vital role in removing barriers, promoting equity, and increasing access to a range of backgrounds, experiences, and perspectives for our learners, and encourage them to think broadly, deeply, and critically to solve real-world problems."





The Impact of Philanthropy

The Campaign for Carolina

Philanthropy continues to drive the pharmacy school's success and excellence. We are deeply grateful to the alumni, friends, corporations, and foundations who believe in our mission and invest in our priorities.

Support raised during the Campaign for Carolina (2015–2022) has funded updates to our learning spaces in Beard Hall, increased student scholarship support, created research opportunities for faculty, and launched global experiences for our students.



Building a 21st Century Learning Environment

We continue to invest resources in our learning and student spaces. Generous alumni named six spaces during the Campaign including classrooms, labs, faculty offices and a student lounge.

Photo 1: Terrence '82 and Terri Burroughs helped us realize a vision to create a student lounge space filled with art on the theme of "Belonging," in line with our commitment to diversity, equity and inclusion.

Photo 2: A newly remodeled classroom



Fostering the Success of Tomorrow's Pharmacy Leaders

Alumni and friends increased our endowed and expendable scholarship support by \$11 million in the Campaign. We offer more than \$1 million in scholarships and \$1 million in financial aid funds annually.



Focus on Faculty: Investing in the Best

Our pharmacy and pharmaceutical sciences faculty have inspired \$75 million in funding during the Campaign. From grants supporting practice advancement to seeking a cure for Chordoma to advancing opioid research, this support reflects the breadth of our mission. In addition, 17 faculty hold professorships with three additions in the Campaign.



Setting the Standard for a Global Pharmacy Practice

Drs. Dhiren and Kailas Thakker created the School's Global Pharmacy Scholarship (GPS) Fund with a seed gift that inspired other alumni to create additional global awards. GPS Scholars gain exposure to global health systems and experience life-changing journeys. We now send 50 students annually to nine sites worldwide.



Scan the QR code to review the full UNC Pharmacy Foundation Impact Report





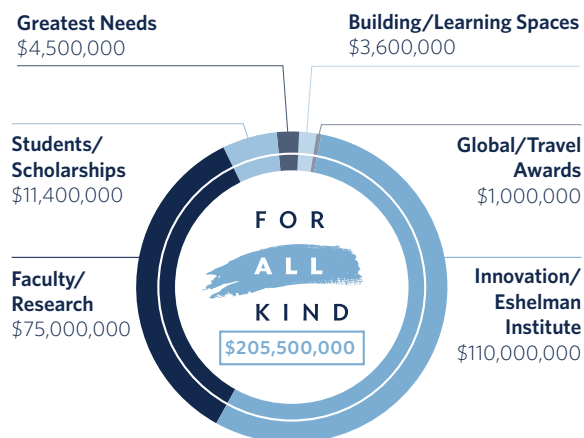
Closing out the Campaign for Carolina

Carolina embarked upon the university-wide Campaign for Carolina beginning January 1, 2015. Fred Eshelman, RPh '72, Pharm.D., launched our Campaign effort with a \$100 million commitment to create the Eshelman Institute for Innovation. This is the largest gift from an individual in UNC's history and the largest to a pharmacy school in the United States.

We will exceed \$205 million raised thanks to the contributions of more than 2,800 campaign donors who have matched Fred's giving. We are humbled by the generosity that has led us to the most successful campaign of any pharmacy school in the nation. Combined with our \$126 million endowment, cumulative gifts made at every giving level have made a substantial impact.

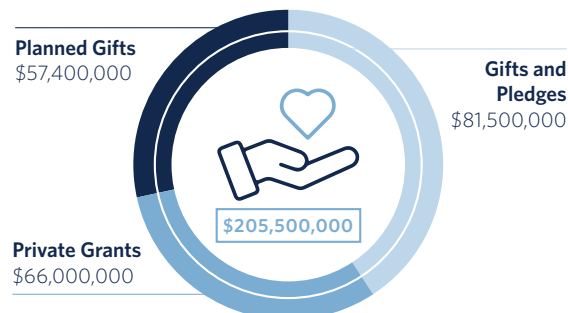
Campaign Impact

With input from our students, faculty, alumni, and key stakeholders, the pharmacy school identified strategic fundraising priorities to fulfill our mission and vision.



Campaign Gifts

In a comprehensive campaign, all gifts and private grants to all areas of the university, for all purposes, are counted. This includes outright gifts and pledges, planned gifts and private grants. A planned gift, or legacy gift, documents a donor's intent to make a future gift as part of estate planning.





OUR VISION

To be the global leader in pharmacy
and pharmaceutical sciences

OUR MISSION

Preparing leaders and innovators to solve
the world's most pressing
health care challenges

OUR VALUES

WE CARE

Welcoming

Equity

Commitment

Accountability

Respect

Excellence





ESHELMAN SCHOOL
OF PHARMACY

Advancing Medicine For Life

