It is a great honor to be a part of the UNC Eshelman School of Pharmacy and I am thrilled to have the opportunity to build upon the School’s success and culture of excellence in my new role as dean, beginning October 1.

The School is in an excellent position thanks to the tireless efforts of our faculty, staff, students, alumni, former Dean Bob Blouin and former Interim Dean Dhiren Thakker. Applications to all of our academic programs increased last year, we continue to innovate in our professional and graduate curricula, our research enterprise continues to grow and address major worldwide health issues, and our practice advancement initiatives are influencing the role pharmacists play in delivering quality care to patients.

Building on this significant momentum, we have a few goals to help us Go Beyond Excellence.

- **For Our People:** Ensure faculty, staff, students and alumni feel engaged, connected and supported within the School by investing in leadership development, resilience and well-being initiatives, and expanding alumni outreach.
- **For Diversity and Inclusion:** Build on our culture of innovation by assembling a diverse and inclusive community of students, faculty, and staff that reflects the communities we serve.
- **For Operational Excellence and Sustainability:** Support a robust data process to inform decision making and drive change.
- **For Serving the State:** Invest in digital learning and rural health initiatives that provide access to state-of-the-art education and excellent care to all North Carolinians.
- **For Impactful Innovation:** Develop strategic partnerships within and outside campus to increase the impact of our research.
- **For Serving the Global Community:** Increase our global engagement by working with PharmAlliance, the UNC Institute for Global Health and Infectious Diseases, and other partners to enable our faculty, learners, and staff to impact pharmacy education and practice, expand research opportunities, and improve human healthcare worldwide through meaningful global experiences.

We are preparing future healthcare leaders who will help people live longer, healthier lives. I truly look forward to working with our brilliant students, faculty, staff and alumni to keep us at the forefront of discovery and innovation in education, pharmacy practice and research.

Together, we will continue **Advancing Medicine for Life**.

**Angela Kashuba, B.Sc.Phm., Pharm.D., DABCP, FCP**

**Incoming Dean, UNC Eshelman School of Pharmacy**
OUR SCHOOL

Everything we do begins and ends with a patient in mind.

In our research labs we are innovating to overcome sickness and disease. In our classrooms, we are preparing future leaders who will transform pharmacy practice and healthcare for all patients.

We are shaping the future of pharmacy and pharmaceutical sciences through a relentless pursuit of a healthier world.

We are Advancing Medicine for Life.
OUR SCHOOL

The UNC Eshelman School of Pharmacy is an internationally recognized leader in pharmacy and pharmaceutical sciences education, pharmaceutical sciences research, and innovation in practice advancement. The School has built a reputation nationally and globally for its rigorous education and training programs, progressive pharmacy practices, and cutting-edge multidisciplinary translational research.

Mission
To develop leaders in pharmacy education, pharmacy practice and pharmaceutical sciences through innovation in teaching, practice and research.

Our Values
• Pursuing excellence in all that we do
• Inspiring a culture of innovation
• Seeking and valuing collaboration
• Upholding the values of integrity, trust, honesty and accountability
• Fostering professional growth for students, staff and faculty
• Embracing diversity and inclusion
• Serving students, patients and society with dedication and care

Strategic Plan
Our School is strategically positioned for continued growth and success as articulated in the 2018-20 Strategic Plan. The plan has seven key initiatives:
• Prepare future leaders who will transform health-care and make a positive difference in people’s lives
• Optimize medication use, advance health care delivery and improve patient care
• Conduct cutting-edge research and translate inventions and discoveries into patient outcomes
• Achieve local and global impact through education, research, and service to the State of North Carolina and beyond
• Increase resources, improve operational efficiency, and enhance a world-class environment
• Ensure that the School has and nurtures the talent, leadership, and culture to execute our vision and mission
• Foster a culture of strategic planning and data-driven decision-making that results in positive impact

Fast Facts

No. 1
School of Pharmacy as ranked by U.S. News & World Report

No. 3
Worldwide in pharmacology and toxicology as ranked by U.S. News & World Report

No. 5
Worldwide in Pharmacy and Pharmaceutical Sciences - Shanghai Rankings

No. 10
QS Global Rankings – Pharmacy & Pharmacology

599
Professional Students

113
Graduate Students

128
Full-Time Faculty

$79.2M
Annual Expenditures

$103M
Endowment
EDUCATION PROGRAMS

We are preparing the next generation of pharmacists, scientists and educators to care for patients and discover innovative solutions to the world’s most challenging health care issues.
Pharm.D. Program

In May 2019, the School graduated the inaugural class of students in our new, transformative Doctor of Pharmacy curriculum. With the new curriculum, students learn fundamental concepts before class, and are challenged to apply and extend those concepts in the classroom. Immersion in patient care in the experiential setting begins immediately after the first year and occurs continually through years two, three, and the entire fourth year. Students also have more opportunities to develop leadership skills and experience with increased emphasis on inquiry, research, innovation, and problem solving.

Fast Facts

No. 1

PGY1 Residency Match Rate - 2018

- 599 Professional Students
- +12% Applications over last year
- 2,400 Average immersion hours for a Pharm.D. graduate
- 8,224 Alumni in 49 states and 28 countries
- 75% Complete postgraduate training
- No. 1 School of Pharmacy as ranked by U.S. News & World Report
Jeffery Seals, PY2 Pharm.D., Candidate, Class of 2021

“Before joining the ESOP community, I had only experienced the world of retail pharmacy. I knew there were more options for pharmacists than working in one of these settings; however, I did not understand or appreciate the ever advancing and broad scope of the pharmacy profession. All of our professors at the UNC Eshelman School of Pharmacy have been amazing in their own way and have worked tirelessly to provide each of us an unrivaled, world class education.

“I always knew that whatever career I found myself in, I wanted to be helping the most people possible. Once I decided that I was interested in becoming a pharmacist, I knew I had to find the best school that would allow me to make the largest impact on my community, local and global. There was no other option besides the UNC Eshelman School of Pharmacy. Even during my first few weeks at Carolina, I became witness to the countless ways that I could make an impact. Through student leadership, organizations, immersion experiences, and internships, it was evident that I had the unique opportunity to change patients’ lives. I am extremely grateful for the opportunity to not only study at the number one pharmacy school in the nation, but more importantly, be trained by world-class pharmacists who will mold me to be a pharmacist of tomorrow who will have the capacity to directly impact all my future patients.”

Jeffery is class president for the 2018-19 year, attending the Chapel Hill, N.C. campus. Jeffery is from Bedford, VA, and he completed his undergraduate in Microbiology and Biological Sciences at Virginia Tech.

Taylor Dennison, Pharm.D., Class of 2019

“I had a variety of immersion experiences that ranged from community pharmacy, inpatient medicine, a bone marrow transplant clinic, and a family medicine clinic. My favorite rotation was the bone marrow transplant clinic because it really honed my love of oncology. By the end of my rotation, I was able to see patients with limited preceptor involvement, which really allowed me to take ownership of my patients and the care that I was giving them.

“My early immersion experiences gave me an incredible baseline to work from. I learned how to interact and work with other members of a patient care team, how to navigate electronic health records and the correct processes for making medical decisions. This gave me a great springboard in my fourth year that allowed me to handle a larger patient capacity and provide better-enhanced care.”

Taylor, ’19, is a PGY1 resident at UNC Medical Center.

Sabree Burbage, Pharm.D., M.P.H., Class of 2019

“I decided to attend the UNC Eshelman School of Pharmacy because I felt that it was the best fit for me. This school had very friendly and knowledgeable professors and students, and each person that I encountered had great things to say about it. Also, the school offers a large amount of opportunities for students to explore several aspects of pharmacy, get experience in the field, and interact with the community. Because of my interest in public health, the Pharm.D./M.P.H. dual degree was also a very attractive option. Lastly, one of the major reasons was that this school emphasized the importance of patient-centered care and truly identifying and empathizing with the patient; they actually cared about the patient as a person and did not view them as just another medical condition. This goes full circle back to why I wanted to become a pharmacist. If that hadn’t sold me, there is the additional bonus that UNC is the best pharmacy school in the country.”

Sabree’s pharmacy interests are still growing and expanding. Because she wants to interact with patients, she is currently interested in ambulatory care, patient education, care transitions and Medication Therapy Management.
Ph.D. Program
The Ph.D. program in pharmaceutical sciences prepares tomorrow’s scientists for basic, translational, or health outcomes research careers. Students concentrate in one of the stages in the drug development cycle corresponding to our academic divisions.

**Drug Discovery**
- Chemical Biology and Medicinal Chemistry
- Disease Targets
- Drug Leads
- Chemical Probes

**Drug Delivery**
- Pharmacoeengineering and Molecular Pharmaceutics
- Formulation
- Drug Delivery
- Nanomedicine

**Drug Optimization**
- Pharmacotherapy and Experimental Therapeutics
- Clinical Pharmacology
- Pharmacometrics
- Precision Medicine

**Patient Outcomes**
- Pharmaceutical Outcomes and Policy
- Medication Risk/Benefit Adherence
- Pharmacoepidemiology

**Industry Postdoctoral Fellowships**
- Clinical Research and Drug Development
- Medical Affairs
- Global Drug Safety/Pharmacovigilance
- Pharmacokinetics/Pharmacodynamics/Pharmacometrics
- Global Regulatory Affairs
- Pharmaceutical Outcomes

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

**Eshelman Innovation and Entrepreneurship Fellowship**
**Global Engagement Fellowship**
**Academic Research Fellowships**

**Fast Facts**

**No. 3**
Worldwide in Pharmacology and Toxicology as ranked by U.S. News & World Report

**No. 5**
Worldwide in Pharmacy and Pharmaceutical Sciences - Shanghai Rankings

**No. 10**
Worldwide in Pharmacy and Pharmacology - QS Global Rankings

89 Ph.D. Students
117 Postdoctoral Fellows
Nader Moniri, Ph.D.
Division of Chemical Biology and Medicinal Chemistry, 2004

Associate Dean for Research and Professor of Pharmaceutical Sciences, College of Pharmacy, Mercer University

“My time as a graduate student at the UNC Eshelman School of Pharmacy was very memorable, both professionally and personally. The graduate program allowed me to take the seed of scientific curiosity that was within me and make it fruitful by providing technical training as well as developing higher order skills in order to solve real-world problems related to human health and disease.”

Dylan Glatt, Ph.D. Division of Pharmacoengineering and Molecular Pharmaceutics, 2016

Research Scientist, Formulation Process Development, Gilead Sciences

“The UNC Eshelman School of Pharmacy provided a wonderful environment and set of experiences to transition into the role I serve today. The facilities are exceptional, perhaps world-class, with access to technical equipment and highly trained experts. The didactic curriculum provided the fundamentals to understand problems often faced by a development scientist and speak the language of peers in my group at Gilead.”

Julie Lauffenburger, Pharm.D., Ph.D.
Division of Pharmaceutical Outcomes and Policy, 2014

Instructor in Medicine at Harvard Medical School
Instructor in the Department of Epidemiology at Harvard School of Public Health

“My experiences at the UNC Eshelman School of Pharmacy afforded me innumerable opportunities for interdisciplinary collaboration, the best possible training in research, and experiences in teaching that have been instrumental for my career.”

Jasmine Luzum, Pharm.D., Ph.D., BCPS
Division of Pharmacotherapy and Experimental Therapeutics, 2013

Assistant Professor, University of Michigan College of Pharmacy

“The vast diversity of research expertise in the Division of Pharmacotherapy and Experimental Therapeutics and the UNC Eshelman School of Pharmacy exposed me to many different directions for my research career, in my coursework, lab rotations and collaborations. It allowed me to explore and then focus my research interests. I strongly believe that the quality and the rigor of earning a Ph.D. in the UNC Eshelman School of Pharmacy is widely recognized, regardless of whether your career path is academia, industry, or regulatory. It certainly helped me earn my current position, and it gives me confidence in the success of my independent research career.”
M.S. Program
The Master of Science Degree in Pharmaceutical Sciences with a specialization in health system pharmacy administration prepares pharmacists for leadership positions in health care. It combines classroom instruction with a two-year residency in a health system setting.

The degree is offered in collaboration with University of North Carolina Hospitals, Duke University Health System, Wake Forest Baptist Health, Mission Hospitals, BayCare and Massachusetts General Hospital.

During the residency, students:
• Engage in a rigorous and in-depth study of leadership in health system pharmacy administration and the principles of the medication use process
• Work within multiple health systems and practice settings and network with leaders across those places
• Conduct a meaningful project that develops skills in scientific inquiry, discovery and scholarship
• Become immersed in direct patient care, administration and real-world learning environments

Fast Facts
24
M.S.
Students
+34%
Applications
over last year
+40%
Enrollment
over last year
EDUCATION PROGRAMS

Felicia Britt, Pharm.D.
PGY1 Health System Pharmacy Administration/MS

“The UNC Eshelman School of Pharmacy is known globally for innovation, research, leadership and dedication to enhancing patient care - four traits I sought in a master’s program specializing in pharmacy administration. I chose this program because I wanted to be a part of a community that strives for excellence every day and is on the cutting edge of healthcare. The UNC program allows learners the opportunity to work alongside forward-thinking leaders who are supportive, creative and passionate in an environment that fosters collaboration with a diverse cohort across the state of North Carolina, Massachusetts and Florida. The expansive network of leaders, innovators and creators is beyond that of any master’s program and to be a part of the UNC Eshelman School of Pharmacy master’s degree is a humbling and rewarding privilege.”

Gerald Offei-Nkansah, Pharm.D., MBA
PGY2 Health System Pharmacy Administration/MS

“I chose to join the pharmaceutical sciences program at the UNC Eshelman School of Pharmacy over other high-caliber programs in the country because of how seamlessly integrated the School is with the medical center. It was important to me to learn at an institution that understands the practical needs and challenges its graduates will face in the real world. Through a close relationship with the UNC Medical Center and other healthcare institutions in the surrounding area, our curriculum greatly benefits by having visiting lecturers who are currently facing the challenges we are learning to handle. The vast network the School gives its students access to is invaluable and has enabled me to expand my personal network. The scope of the coursework gives me the confidence to engage with these local leaders in my industry so I can have a deeper understanding of what we learn in class. As I prepare for the next stage in my career, I am emboldened to pursue any number of opportunities I may be presented with.”

Lindsey Amerine, Pharm.D., M.S.
Interim Regional Director of Pharmacy, UNC Health Care System

“When looking at residency programs, one of the core aspects I valued was the master’s degree and how well it would align with and integrate into the residency. The UNC Eshelman School of Pharmacy master’s program was the top program in my evaluation for integrating the didactic elements with my learning experientially on rotation. I was able to learn from top pharmacy leaders who have the ability to teach the core principles in the classroom, while also carrying them out in practice. This was a differentiator as the real-world application is relevant and useful. Since my time in the program, UNC has only strengthened the degree offering which allows residents to continue learning from top pharmacy leaders who are progressing practice and understand the value in training future leaders of our profession.”
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.
The UNC Eshelman School of Pharmacy has a robust collaborative, translational and patient-focused research enterprise.

**Disciplines, Platforms and Technologies**

**Drug Discovery**
- Find and characterize new therapeutic targets and agents
  - Synthetic Chemistry
  - Structural Biology
  - Neuropharmacology
  - Computer-Aided Drug Design
  - Medicinal Chemistry
  - Assay Development
  - Rational Drug Design
  - Chemical Biology
  - High-Throughput Screening
  - Cheminformatics

**Drug Delivery**
- Deliver therapeutic agents for successful outcomes
  - Pharmacoeengineering
  - Analytical & Polymer Chemistry
  - Cell-Based Therapies
  - Immunoengineering
  - Gene Delivery
  - Molecular Pharmaceutics
  - Nanomedicine
  - Pharmacokinetics

**Drug Optimization**
- Discover and evaluate the factors that influence how therapeutic agents work
  - Clinical Pharmacology
  - Pharmacoengineering
  - Pharmacometrics
  - Pharmacotherapy
  - Clinical & Translational Research
  - Drug Metabolism & Transport
  - Pharmacogenomics
  - Experimental Therapeutics
  - Drug Toxicity
  - Pharmacogenomics
  - Precision Dosing

**Patient Outcomes**
- Identify the health outcomes and value of therapies, policies and practices
  - Pharmacoepidemiology
  - Pharmacogenomics
  - Health Services Research
  - Implementation Science
  - Health Communication & Behavior
  - Data Science
  - Economics & Policy
  - Precision Dosing

**Practice Advancement and Clinical Education**
- Advance education and the practice of pharmacy
  - Medication Optimization
  - Implementation Science
  - Healthcare Policy
  - Educational Research

**Research Centers**
- Integrative Chemical Biology and Drug Discovery
- Nanotechnology in Drug Delivery
- Medication Optimization
- Innovation in Pharmacy Education and Research

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**Fast Facts**

**No. 2**
- in NIH Funding, U.S. schools of pharmacy
- $38M
- in Research Grants for FY 2017-18

**No. 2**
- Eshelman Innovation Fund
- $100M
- Research Partnership with Deerfield Management
- $65M

**51**
- Startup Companies

**563**
- Papers Published in 2018

**235**
- Issued Patents
We are working across many settings of care to optimize medication use for patients, improve patient outcomes and transform the role of the pharmacist in providing patient-centered, team-based care.
PRACTICE ADVANCEMENT

COMMUNITY

Independent Pharmacy Ownership Residency (IPOR)
This postgraduate program prepares our graduates to be entrepreneurs and pharmacy owners. Our residents spend the majority of their time working at the primary residency site to gain experiences designed to prepare them for an evolving healthcare market.

Vakula Tummala
2019-20 Resident
“I am so excited to be a part of the IPOR program! I look forward to learning more about independent pharmacy ownership, creating new patient care services and networking.”

Community Pharmacy Residency Program (CPRP)
This program prepares our graduates to be innovative clinical practitioners who can be leaders in the profession. They will have the skills, confidence and experience to create change and advance patient care services in community pharmacy practice. Our program has residency sites at independent and national chain pharmacies throughout North Carolina.

HOSPITAL

Partnership in Patient Care
The Partnership in Patient Care, launched in 2010, combines the resources of the School and the UNC Hospitals pharmacy department to increase pharmacy services available to patients at UNC Hospitals through enhanced engagement of students and residents, the quality and quantity of experiential education that the UNC Eshelman School of Pharmacy students receive, and the breadth and depth of point-of-care research being conducted. The pharmacists at UNC have become well-integrated into the School’s teaching and point-of-care research mission.

Partnership outcomes to date have included:
- An increase in the number of pharmacists in pharmacotherapy intensive ambulatory care settings.
- Enabling the provision of comprehensive acute care pharmacy clinical services to all areas of UNC Hospitals.
- An increase in the number of pharmacy students completing their immersion experiences at UNC and the number of student months of precepted practice experiences. This is accomplished through implementation of the layered learning practice model.
- An increase in the number of co-published papers between both organizations.
- A palpable and true sense of collaboration between the School and the Hospital.

RESEARCH

Current Studies
The School’s faculty are engaged in research to advance the future of the profession while improving patient-centered, team-based care delivery. Studies are ongoing to address the opioid epidemic across a variety of care settings including care transitions, primary care, and community pharmacy. Additional efforts are underway to explore a number of practice transformation interventions, ranging from disease state management to reduce the risk of falls, cardiovascular risk, and diabetes; comprehensive medication management in primary care to optimize medication use and improve health; targeted interventions in the community pharmacy setting to improve patient care and build a sustainable business model; precision dosing to individualize and enhance patient care; and telehealth services to optimize medication use and care delivery in rural health care settings.

Center for Medication Optimization (CMO)
The Center for Medication Optimization at the UNC Eshelman School of Pharmacy was launched in 2015. The Center’s mission is to collaborate with the pharmacy practice community, health care providers, patients, payers, policymakers and other key stakeholders to develop and evaluate evidence-based interventions that optimize medications and patient outcomes across care settings. Critical to this research is the need to integrate scalable interventions into emerging value-based payment models that enable a sustainable pathway to reimbursement.
ACCELERATING INNOVATION

We are investing in high-risk, high-reward ideas in order to innovate from drug discovery to patient care, and translate these discoveries into improved health care for all.
The Eshelman Institute for Innovation at the UNC Eshelman School of Pharmacy was established in 2014 with a $100M commitment from Dr. Fred Eshelman. The Institute serves as an Innovation Engine enabling the School to pursue bold, new ways to move the mission forward and extend its position as a global leader through grant funding, commercialization and training.

### Funding
- **107** Projects Funded
- **$21.9M** Grants Awarded

### Research Areas Funded
- Target Discovery: 44.4%
- Disease Diagnostics: 3.2%
- Basic Pharmaceutical Sciences: 5.3%
- Precision Medicine: 5.7%
- Drug Delivery: 12%
- Drug Optimization: 12.9%
- Healthcare Delivery and Education: 16.5%

### Commercialization
- **46** Invention Disclosures
- **10** Patent Applications
- **15** Technologies Licensed
- **11** Startup Companies
- **$11M** Startup Funds Raised
- **9** Companies Incubated

### Training
- **67** High School Students
- **128** Professional and Graduate Students
- **4** Postdoctoral Fellows
- **15** Interns

The Eshelman Institute for Innovation targets areas such as Drug Delivery (12%), Disease Diagnostics (3.2%), Basic Pharmaceutical Sciences (5.3%), and Target Discovery (44.4%) to fund and advance innovative research.
Samuel Lai, Ph.D.

Associate Professor Sam Lai works to prevent the spread of infections in the body by using antibodies to trap infections in mucus matrices produced by the body. This allows scientists to engineer better antibodies to trap a variety of pathogens for prophylactic and therapeutic applications. Lai’s research has spun off a company, Mucommune, which is working to engineer antibodies that can be applied topically to prevent diseases at the infection site. Topical antibodies would protect a specific infection site. For example, swallowing a pill could protect the gut; a puff from an inhaler would protect the lungs. Nurses and doctors could get a daily nasal spray containing antibodies against a diverse array of flu strains.

“Biological gels like mucus are abundant in the body and protect every opening and exposed organ not covered by the skin. If we can trap pathogens in mucus and extracellular matrices, we can prevent them from getting to the cells they want to infect and, therefore, prevent infections from spreading or happening altogether.”

Rahima Benhabbour, Ph.D.

Benhabbour’s research focuses on the development of novel delivery platforms and polymer-based devices that can treat or prevent disease. Out of her research she created AnnelleO, the company that is developing the first 3-D printed intravaginal ring (IVR) designed to treat or prevent women’s health conditions including cancer, STDs and HIV prevention.

“3D printing allows us to introduce geometric complexity to the rings that cannot be achieved with traditional injection molding and extrusion, which are the two technologies currently used to manufacture IVRs. The complex geometries within the ring allow us to precisely fine-tune the release kinetics of drugs and achieve 100 percent drug release in a controlled manner.”

Companies Formed

- **Falcon Therapeutics, Inc.**  
  Pharmacy Founder: Shawn Hingtgen, Ph.D.

- **Mucommune, LLC**  
  Pharmacy Founder: Sam Lai, Ph.D.

- **OncoTrap, Inc.**  
  Pharmacy Founder: Rihe Liu, Ph.D.

- **AnelleO, Inc.**  
  Pharmacy Founder: Rahima Benhabbour, Ph.D.

- **Irex Pharma, LLC**  
  Pharmacy Founder: Emily Hull-Ryde, Ph.D.

- **AI Tracking Solutions, LLC**  
  Pharmacy Founder: Sam Lai, Ph.D.

- **Panacise Bio, Inc.**  
  Pharmacy Founder: Rihe Liu, Ph.D.

- **Accunovo Biotechnologies, Inc.**  
  Pharmacy Founder: Rihe Liu, Ph.D.  
  Co-Founder: Zibo Li, Ph.D.

- **Inhalon Biopharma, Inc.**  
  Pharmacy Founder: Sam Lai, Ph.D.

- **Open4Meds**  
  Pharmacy Founder: Tim Willson, Ph.D.

- **Epigenos Biosciences, Inc.**  
  Pharmacy Founder: Nate Hathaway, Ph.D.
FROM LOCAL TO GLOBAL

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.
FROM LOCAL TO GLOBAL

Rural Health Scholars Program
The demand for pharmacists is often higher in rural communities where access to medical services may be limited by geography, distance and economic challenges. Our Rural Pharmacy Health Certificate program prepares student pharmacists for collaborative, interprofessional practices that serve the health care needs of North Carolinians living in rural and small communities. Our Rural Pharmacy Scholars gain valuable skills in cultural competency and provide pharmacy solutions to populations that have limited access to health systems, difficulty understanding complicated treatment plans, limitations in access to, and affordability of, health care providers, and challenges with following and maintaining medication plans. Twelve graduates have completed the program since 2017.

Casey Hamon, Class of 2019
“The program has taught me how to think beyond drug therapy, consider a patient holistically, and factor in non-medicine related social determinants affecting their health and how to help patients overcome them. I have learned not only skills for communicating across cultural boundaries, but have also become more self-aware and able to evaluate myself for possible cultural biases.”

Global Pharmacy Scholars
Our Global Pharmacy Scholars (GPS) program sends more than 50 students annually to one of nine international locations for a one-month Advanced Pharmacy Practice Experience rotation. Students are exposed to different health care systems, cultures, and may participate in research initiatives at select sites.

Our GPS locations
- Chisinau, Moldova
- London, U.K.
- Colomarigua, Honduras
- Addis Ababa, Ethiopia
- Lusaka, Zambia
- Lilongwe, Malawi
- Mysuru, India
- Tokyo, Japan
- Melbourne, Australia

PharmAlliance
PharmAlliance is a partnership among the pharmacy schools/faculty at UNC-Chapel Hill, USA, Monash University, Australia, and UCL, UK, which strives to address major global challenges in pharmacy profession and human healthcare through collaboration in advancing pharmacy/pharmaceutical sciences education and research, and pharmacy practice.

31 Funded Grant Applications
54 Joint Publications
44 Joint Presentations
76 Student Exchanges
$1.3M in Extramural Funding
A CULTURE OF COLLABORATION

We value the talents and wisdom of others and embrace partnerships to advance common goals.
UNC-Chapel Hill is a research-intensive and highly-collaborative health sciences university. It is a key member of the Research Triangle, which includes Duke University and N.C. State University.
A C U L T U R E  O F
COLLABORATION

We are actively partnering to advance research, education and practice across the campus, state, nation and around the world.

UNC Health Sciences Campus
Our research partners:
• School of Medicine
• Adams School of Dentistry
• Gillings School of Global Public Health
• School of Nursing
• School of Social Work
• UNC Hospitals
• UNC Lineberger Comprehensive Cancer Center

Research Triangle Park
A triangle of pharmaceutical, biotech and healthcare talent anchored by three founding universities: UNC-Chapel Hill, Duke University, and N.C. State University.

Strategic Partnerships
PINNACLE HILL
The University of North Carolina at Chapel Hill and Deerfield Management have created Pinnacle Hill, LLC, a company seeking to discover new medicines to address the significant unmet medical needs of our times. Deerfield has committed $65M in targeted funding as part of the partnership.

UNC is one of the leading research universities in the world. It is their ability to build interdisciplinary teams and utilize diverse perspectives to collaborate on healthcare challenges that attracted us. Carolina’s network of research centers and institutes, including the Eshelman Institute for Innovation, will play a crucial role in helping us collaborate to solve problems, discover new technologies and save lives.”

—James Flynn
Managing Partner, Deerfield

$1.1B
in Sponsored Research annually

No. 5
in Health Sciences Research funding nationally

No. 1
Largest Research Park in the U.S.

250+ Businesses

3,000+ Patents Awarded to RTP businesses
Our People

We are committed to building a diverse and inclusive community of people who are excited to come to work every day in a positive, supportive environment that allows them to grow and develop.
Diversity and Inclusion
The Office of Organizational Diversity and Inclusion is focused on the implementation of several strategic priorities in the areas of:
• Faculty, staff and student recruitment
• Culture and climate
• Curricula of professional and graduate programs.

Following are several ongoing initiatives focused on enhancing our commitment to diversity and inclusion:
• Recruitment Ambassadors Program
• Mentoring Future Leaders in Pharmacy
• Leadership Excellence and Development Program
• Pre-Pharmacy Club
• Undergraduate Students for Diversity in Pharmacy
• Leadership Academy

Student Fast Facts

16% URM* Pharm.D. Students - 2019 Incoming Class
24% URM Graduate Students - 2019 Incoming Class

27% of Students in the 2019 Incoming Pharm.D. Class Speak Two or More Languages
17% of Students in the 2019 Incoming Pharm.D. Class are First-Generation College Graduates

33 States Represented by Our 2019 Incoming Pharm.D. Class
5 Countries Represented by Our 2019 Incoming Pharm.D. Class

99% Graduation Rate for URM Pharm.D. Students
99% Pharmacy Board Pass Rate for URM Pharm.D. Students

* URM - Underrepresented Minority

Rasheen O. Mohammed, Pharm.D., M.P.H., Class of 2019
“The School has continued to make great strides in creating a safe and welcoming environment for all students. The faculty and staff continue to be leaders who promote diversity and inclusion not only in the classroom, but also in practice.”
Resilience and Well-Being
In 2018, the School formed a Resilience and Well-Being Task Force to develop strategies for preventing and managing mental health concerns, and lead the profession of pharmacy in the effort to create balanced and resilient health care leaders.

Vision
To serve as a model for the profession of pharmacy in the development of a resilient pharmacy workforce that is committed to embracing a whole person approach to education.

Mission
To create innovative organizational systems that support the resilience and well-being of our people.

Eshelman Care Team
A new resource that provides coordinated assistance and support to students who are struggling with well-being, academics, or professional issues through a centralized resource of outreach, referral and case management.

Week of Wellness
A new annual event held in February to focus on the importance of wellness within our School.

Mental Health First Aid
A new course activity as part of the Leadership and Professional Development Course Stream for all third-year Pharm.D. students.

College of Psychiatric and Neurologic Pharmacists Foundation Grant
Awarded to Pharm.D. students Abby MacCauley and Ashley Kang under the mentorship of faculty members Suzie Harris and Heidi Anksorus to assess pharmacist and pharmacy student wellness in mental, physical and personal health. Their project was selected as an award finalist for the CPNP Foundation Strategic Goals Award, which will be presented at their Annual Meeting in April 2019 in Salt Lake City, Utah. Additionally, the project will be submitted for an encore poster presentation at the AACP Annual Meeting in Chicago in July 2019.

Eshelman Care Team
A new resource that provides coordinated assistance and support to students who are struggling with well-being, academics, or professional issues through a centralized method of outreach, referral, and case management.

Resilience and Well-Being Endowment
An endowment established to support wellness initiatives at the School.

Well-Being and Resilience Student Award
A memorial award in honor of former student Michael Nam was established to recognize Pharm.D. students who have demonstrated a personal commitment to promoting resilience, well-being and mental health.

College of Psychiatric and Neurologic Pharmacists Foundation Grant
Awarded to Pharm.D. students Abby MacCauley and Ashley Kang under the mentorship of faculty members Suzie Harris and Heidi Anksorus to assess pharmacist and pharmacy student wellness in mental, physical and personal health.

Their project was selected as an award finalist for the CPNP Foundation Strategic Goals Award, which will be presented at their Annual Meeting in April 2019 in Salt Lake City, Utah. Additionally, the project will be submitted for an encore poster presentation at the AACP Annual Meeting in Chicago in July 2019.

Abby MacCauley, PY4 Pharm.D. Candidate
Ashley Kang, PY3 Pharm.D. Candidate
INVESTING IN
THE FUTURE

The Campaign for Carolina is a University-wide fundraising effort focused on continued excellence in teaching, research and service.

As part of the campaign, the UNC Eshelman School of Pharmacy is raising $175 million to positively impact human health worldwide.
**INVESTING IN THE FUTURE**

As of June 2019, we have raised more than $152 million toward our campaign goal of $175 million. More than 2,250 pharmacy alumni and friends have contributed to the campaign.

### Five Key Strategic Investment Priorities:

<table>
<thead>
<tr>
<th>Priority</th>
<th>Amount Raised</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students</td>
<td>$6.6M</td>
</tr>
<tr>
<td>Faculty</td>
<td>$30.5M</td>
</tr>
<tr>
<td>Innovation</td>
<td>$104M</td>
</tr>
<tr>
<td>Global</td>
<td>$7.9M</td>
</tr>
<tr>
<td>Building</td>
<td>$3.4M</td>
</tr>
</tbody>
</table>

- **Students**: Attracting and training the next generation of healthcare leaders
- **Faculty**: Recruiting, retaining and supporting intensely talented faculty and researchers
- **Innovation**: Funding big ideas in pharmacy education, research and practice
- **Global**: Transforming human health globally
- **Building**: Creating a 21st-century environment for learning and discovery
MAKING A DIFFERENCE

Click on the links below to learn more about the School, our academic programs and innovation initiatives.

Pharm.D.  Click on the Old Well to learn more about our Pharm.D. program
Ph.D.  Click on the Old Well to learn more about our Ph.D. program
M.S.  Click on the Old Well to learn more about our M.S. program
Innovation  Click on the Old Well to learn more about our Innovation Initiatives
Giving  Click on the Old Well to learn more about our Fundraising Efforts

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