Division of Pharmacotherapy and Experimental Therapeutics

Graduate and Fellowship Programs
PhD in Pharmaceutical Sciences

The PhD program in the Division of Pharmacotherapy and Experimental Therapeutics develops scientists capable of conducting innovative and clinically relevant translational research that integrates biomedical and pharmaceutical sciences in both laboratory-based models and in humans.

Our PhD program offers two curricular tracks based on the students’ previous experience: clinician (for students with a PharmD, MD, or equivalent degree) and nonclinician (for students with no previous clinical training). Graduates from both tracks have enjoyed an outstanding employment rate in academia and the pharmaceutical industry.

Areas of Graduate Coursework and Research
- Drug metabolism and transport
- Pharmacokinetics/pharmacodynamics/pharmacometrics
- Pharmacogenomics
- Clinical trial design and statistical analysis
- Experimental therapeutics
- Mechanisms of drug toxicity

Areas of Therapeutic Application
- Cardiovascular disease
- Hepatology/gastroenterology/transplant
- Infectious disease/HIV
- Oncology/hematology
- Pulmonary disease

Contact
Craig Lee, PharmD, PhD, FCCP
919-843-7673
craig_lee@unc.edu

To Apply
Applicants must complete the UNC Graduate School online application (pharmacy.unc.edu/admissions/phd/how-to-apply). We strongly encourage applicants to apply by December 15 in order to be considered for a merit-based University or School fellowship.
Fellows prepare for careers as independent researchers with emphasis on any of the following: clinical trials, preclinical model systems, bioanalytical and molecular methods, and multi-compartment PK/PD analyses. Fellows will also focus on protocol and grant writing, scientific writing and presentations, and teaching. They will also take appropriate coursework, including study design, biostatistics, and pharmacogenomics.

Fellows will work closely with renowned faculty in one of the following therapeutic areas:
• Heart failure/cardiovascular disease
• HIV/infectious disease
• Oncology/pharmacogenomics

Clinical PK/PD Fellowships
Fellows participate in clinical pharmacokinetic (PK), pharmacodynamic (PD), pharmacometric, transport, and metabolism studies with faculty at the School and with members of the Clinical Pharmacokinetics Group at either GlaxoSmithKline or Quintiles during the second year of appointment. This fellowship provides
• experience in PK study design and related clinical trials;
• experience in PK, PD, and pharmacometric data analysis;
• experience in the conduct of clinical drug trials;
• in vitro and in vivo laboratory methods to evaluate drug absorption, metabolism, transport and pharmacogenomics; and
• didactic instruction in courses that supplement PK/PD training.

Regulatory Affairs Fellowship
This fellowship provides practical training and experience in key regulatory functions to help fellows gain expertise in the regulatory requirements of drug development. The fellowship includes rotations that will provide fellows the opportunity to train in academic (UNC), pharmaceutical (GlaxoSmithKline), and regulatory settings.

N.C. Collaborative Clinical Pharmacology T32 Postdoctoral Fellowships
This multidisciplinary, collaborative training program prepares clinician-scientists for academic, industrial, or regulatory careers in clinical pharmacology, with an emphasis in pediatrics and drug safety. The program develops innovative clinical pharmacologists who will conduct cutting-edge research and mentor the next generation of clinician-scientists. Fellows learn contemporary methods of laboratory and clinical research and are equipped to address critical problems in clinical pharmacology.

Contact
Bob Dupuis, PharmD
919-966-6194
fellowships@unc.edu

To Apply
Visit pharmacydpetfellowships.web.unc.edu for instructions on submitting an application.

The deadline for early consideration is November 15. The final deadline to apply is January 1.
UNC Eshelman School of Pharmacy

The UNC Eshelman School of Pharmacy is a nationally recognized leader in progressive pharmaceutical care practice, education, and research. Throughout its history, the School has built a reputation for cutting-edge research, rigorous training programs, and outstanding faculty, staff, and students.

The School is one of five health-affairs schools on the campus of the University of North Carolina at Chapel Hill and benefits from close collaborations with many on-campus research programs, including the Carolina Center for Genome Sciences, the Lineberger Comprehensive Cancer Center, the Center for Infectious Diseases, and the McAllister Heart Institute.

The School has one of the top-ranked PharmD programs in the country and is one of the leaders among schools of pharmacy in federal research funding. The School added 75,000 square feet of state-of-the-art research space in 2009 with the Genetic Medicine Building and added another 75,000 square feet in Marsico Hall in 2014.

University of North Carolina at Chapel Hill

The University of North Carolina at Chapel Hill is ranked as one of the leading public universities in the nation and has built a strong reputation as a research university. In 2009, the University ranked tenth nationally and number one in the South among public universities and colleges in federally funded research and development expenditures. In 2014, it received more than $792 million in research funding.

The University has strong research programs in a number of scientific and health-care fields, such as oncology, infectious diseases, cardiology, nanomedicine, drug discovery, and genetics. It also boasts the top library system in the South, according to the Association of Research Libraries and the Chronicle of Higher Education.

Chapel Hill and Research Triangle Park

Chapel Hill is widely regarded as one of the best college towns in America. Franklin Street, the town's main thoroughfare, borders the UNC-Chapel Hill campus and offers shops, cafes, restaurants, theaters, and houses of worship. Chapel Hill has multiple parks and greenways, malls, an interesting historic district, and multiple recreational facilities. The town is eighteen miles from Raleigh-Durham International Airport and centrally located between North Carolina's scenic beaches and mountains.

Chapel Hill is located at the western point of the Research Triangle Park, which borders three major universities and is home to a vibrant culture of scientific research and more than 170 global companies, a number of which have ties to the School and the University.