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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
919-843-7673
craig_lee@unc.edu

To Apply
Applicants must complete the UNC Graduate School online application (pharmacy.unc.edu/divisions/dpet/phd-program). We strongly encourage applicants to apply by December 7 in order to be considered for a merit-based University or School fellowship.

Clinical Research/Drug Development and Medical Affairs Fellowships
Fellows participate in clinical research studies with School faculty in the first year and with members of a drug development clinical research group (phases I-IV) at their sponsor's industry site in the second year.

This fellowship provides
- training and experience in the conduct of clinical drug trials;
- participation in clinical research projects under the direction of a UNC faculty member and an industry preceptor;
- didactic instruction in courses that supplement training and professional interests; and
- exposure to ethical, legal, and regulatory issues in research involving investigational and marketed drugs.

Clinical PK/PD/PM Fellowships
Fellows participate in clinical pharmacokinetic (PK), pharmacodynamic (PD), pharmacometric (PM), 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 vivo and in vitro 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
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919-966-6194
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**Why We Do**

**What We Do**

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**Graduate Program**

pharmacy.unc.edu/divisions/dpet/phd-program

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**Academic Fellowships**

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

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