

2023 Faculty Research Proposal for UAMS College of Pharmacy Summer Student Research Fellowship

FACULTY INFORMATION:

NAME: John D. Imig

DEPARTMENT: Pharmacy Practice
 Pharmaceutical Sciences

LOCATION: Biomed 2, Room 140

PROJECT INFORMATION:

TITLE: Development of Novel Therapeutics for Diabetes, Cardiovascular Diseases, and Kidney Diseases

LOCATION OF THE PROJECT: Biomed 1, Room 234 and 244

BRIEF DESCRIPTION OF THE PROJECT OR SPECIFIC AIMS:

The Imig laboratory is dedicated to understanding the mechanisms by which certain fatty acids “eicosanoids” influence kidney and cardiovascular function. Research in the laboratory focuses on kidney and blood vessel function in normal and disease states. We develop novel drugs to treat diseases including hypertension, stroke, heart attacks, metabolic diseases, diabetes, and kidney diseases.

Potential Projects

1. Epoxide Drugs to Treat Chemotherapeutic Nephrotoxicity
2. Multi-target Drugs to Combat Cardiovascular and Metabolic Diseases

STUDENT’S RESPONSIBILITIES/DUTIES FOR THE PROPOSED PROJECT:

Assist with kidney histology, cell culture, and biochemical and genetic studies.

ESTIMATED TIME FOR PROJECT COMPLETION: 10 weeks (≥10 weeks required)

DOES THE WORK INVOLVE ANIMAL RESEARCH? YES

NO

ORAL/POSTER PRESENTATION OPPORTUNITY:

Opportunities to present at UAMS Research Day and national scientific conferences.

MANUSCRIPT SUBMISSION:

The project participation can result in being a co-author on manuscript submissions.