

Opportunity Title: FDA Antimicrobial PK-PD Fellowship Opportunity Reference Code: FDA-CDER-2022-0766

Organization U.S. Food and Drug Administration (FDA)

Reference Code FDA-CDER-2022-0766

How to Apply

Connect with ORISE...on the GO! Download the new ORISE GO mobile app in the Apple App

Store or Google Play Store to help you stay engaged, connected, and informed during your ORISE experience and beyond!

A complete application consists of:

- An application
- Transcripts Click here for detailed information about acceptable transcripts
- A current resume/CV, including academic history, employment history, relevant experiences, and publication list
- One educational or professional recommendation

All documents must be in English or include an official English translation.

If you have questions, send an email to ORISE.FDA.CDER@oran.org. Please include the reference code for this opportunity in your email.

Application Deadline 5/31/2022 3:00:00 PM Eastern Time Zone

Description *Applications will be reviewed on a rolling-basis.

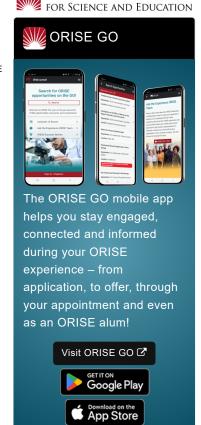
A research opportunity is currently available in the Office of New Drugs / Office of Infectious Diseases (OID), Center for Drug Evaluation and Research (CDER), Food and Drug Administration (FDA) in Silver Spring, Maryland. CDER performs an essential public health task by making sure that safe and effective drugs are available to improve the health of people in the United States. As part of the FDA, CDER regulates over-the-counter and prescription drugs, including biological therapeutics and generic drugs. This work covers more than just medicines.

The project will address multiple challenges with current antimicrobial minimum inhibitory concentration (MIC) based pharmacokinetic-pharmacodynamic (PK-PD) methodologies for clinical decision making. Specifically, identification of the true PK-PD target and consideration of its variability by evaluating different bacterial burden and incorporating unconsidered factors (e.g. PD variability) will be addressed.

Under the guidance of a mentor(s), the participant's training will include:

- Learning to prepare a database describing antimicrobial PK-PD information gathered from submitted marketing applications and publicly available sources including published literature.
- Learning to evaluate nonclinical infection PK-PD models and apply the information for translation and selection of the dosing regimen(s) used to support a marketing application as well as set antibacterial susceptibility test interpretive criteria.
- Learning to conduct MIC-based PK-PD analyses (e.g., population pharmacokinetics, Monte Carlo simulations).

This program, administered by ORAU through its contract with the U.S. Department of Energy to manage the Oak Ridge Institute for Science and Education, was established through an interagency agreement between DOE and FDA. The initial appointment is for one year, but may be renewed upon recommendation of FDA contingent on the availability of funds. The participant will receive a monthly stipend commensurate with educational level and experience. Proof of health insurance is required for participation in this program. The appointment is full-time at FDA in the



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> Silver Spring, Maryland, area. Participants do not become employees of FDA, DOE or the program administrator, and there are no employment-related benefits.

> Completion of a successful background investigation by the Office of Personnel Management is required for an applicant to be on-boarded at FDA. OPM can complete a background investigation only for individuals, including non-US Citizens, who have resided in the US for a total of three of the past five years.

FDA requires ORISE participants to read and sign their FDA Education and Training Agreement within 30 days of his/her start date, setting forth the conditions and expectations for his/her educational appointment at the agency. This agreement covers such topics as the following:

- Non-employee nature of the ORISE appointment;
- · Prohibition on ORISE Fellows performing inherently governmental functions;
- · Obligation of ORISE Fellows to convey all necessary rights to the FDA regarding intellectual property conceived or first reduced to practice during their fellowship;
- The fact that research materials and laboratory notebooks are the property of the FDA;
- ORISE fellow's obligation to protect and not to further disclose or use non-public information.

Qualifications The qualified candidate should have received a master's level degree in Pharmaceutical Science/Pharmacology or received a doctoral degree (PhD, PharmD, DPH, MD) in one of the relevant fields. Degree must have been received within the past five (5) years.

Preferred skills/ knowledge:

- Knowledge in pharmacokinetic (PK), pharmacodynamic (PD), and PK-PD principles.
- Training or research in PK-PD or PK modeling analyses, preferably in the anti-infective field.
- Training or research with data analysis tools (e.g., R, MATLAB, or SAS) and/or modeling tools (e.g., Phoenix NLME, Monolix, or NONMEM).

Eligibility Requirements

- Degree: Master's Degree or Doctoral Degree received within the last 60 month(s).
- · Academic Level(s): Postdoctoral or Post-Master's.
- Discipline(s):
 - Computer, Information, and Data Sciences (17.4)
 - Life Health and Medical Sciences (48)
 - Mathematics and Statistics (11)

Affirmation Have you lived in the United States for at least 36 out of the past 60 months? (36 months do not have to be consecutive.)

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