

Opportunity Title: Molecular Biological Reagents for Characterization of Live

Biotherapeutic Products - FDA CBER

Opportunity Reference Code: FDA-CBER-2019-0020

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

Reference Code FDA-CBER-2019-0020

How to Apply 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,
- · One educational or professional recommendation. Your application will be considered incomplete, and will not be reviewed until one recommendation is submitted.

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

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

Application Deadline 6/7/2019 3:00:00 PM Eastern Time Zone

Description A research opportunity is available in the Division of Bacterial, Parasitic and Allergenic Products (DBPAP), Office of Vaccines Research and Review (OVRR), at the Center for Biologics Evaluation and Research (CBER), Food and Drug Administration (FDA) in Silver Spring, Maryland.

> Live Biotherapeutic Products are preparations of live bacteria that are being investigated for the treatment or prevention of specific human diseases. They include products commonly referred to as probiotics. For use in clinical trials, particularly in more vulnerable subjects, demonstrating the absence of contaminating organisms, especially pathogens, is a major indicator of safety. This can be problematic due to the large number of product organisms, which may obscure typical culture methods. We are attempting to develop specific reagents to eliminate the product organisms to allow detection of contaminants by simple, yet sensitive, culture methods. Among the approaches we are investigating are lysin proteins - derived from bacteriophage, and bacteriocins - proteins that bacteria produce to kill other bacteria. In addition we are developing reagents to specifically label bacteria. These will be used in assays that, in a mixture of therapeutic bacteria, will identify each bacterial species in order to demonstrate potency (number of each viable strain) and stability (potency over time). Modalities being investigated for this aspect of the project include binding domains of lysin proteins, camelid antibodies raised against whole bacteria, and other antibodies against surface structures. Among the laboratory skills that participants may expect to learn and become proficient at are: microbiological technique, DNA cloning, western blot analysis, protein purification, fluorescence microscopy, and flow-cytometry.

*Although the application deadline is June 7th, applications will be reviewed on a rollingbasis.

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



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The Homeland Security Presidential Directive-12 (HSPD-12) mandates a background check be completed for both U.S. Citizens and foreign nationals. Foreign nationals must have resided in the U.S. for at least three (3) of the past five (5) years in order for FDA to be able to complete a background check.

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 bachelor's or master's degree in one of the relevant fields, or be currently pursuing one of the degrees and will reach completion by June 2019. Degree must have been received within five years of the appointment start date.

Preferred skills/experience:

- Previous laboratory experience
- · Interest in Microbiology
- Basic microbiological techniques preparation of growth media and propagation of bacterial strains
- · Basic DNA cloning techniques preparation of plasmid DNA, PCR, restriction and ligation, and transformation
- · Basic electrophoresis techniques agarose gels for DNA and acrylamide gels for proteins

Eligibility Requirements

- Degree: Bachelor's Degree or Master's Degree received within the last 60 months or anticipated to be received by 6/30/2019 12:00:00 AM.
- Discipline(s):
 - Life Health and Medical Sciences (6)

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