

Opportunity Title: FDA Fellowship in Mass Spectrometry Characterization of Complex Allergen Extracts

Opportunity Reference Code: FDA-CBER-2024-04

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

Reference Code FDA-CBER-2024-04

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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.CBER@orau.org. Please include the reference code for this opportunity in your email.

Application Deadline 12/31/2024 11:59:00 PM Eastern Time Zone

Description Applications will be reviewed on a rolling-basis and this opportunity will remain open until filled.

A research opportunity is currently available in the Office of Vaccine Research and Review (OVRR) at the Center for Biologics Evaluation and Research (CBER), Food and Drug Administration (FDA) in Silver Spring, Maryland.

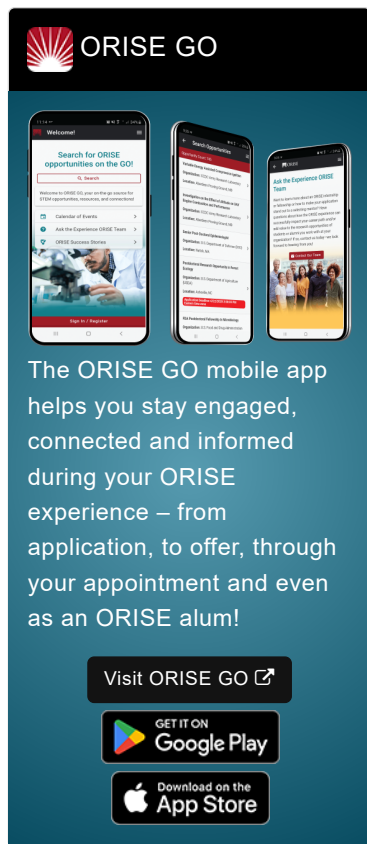
Allergen extracts are used extensively to diagnose and treat allergic disease, including allergic rhinitis, allergic conjunctivitis, asthma, and bee venom allergy. These allergen extracts are highly complex natural products, typically produced by a nonselective aqueous extraction process. Depending on the specific product, FDA regulates allergen extracts by comparing them to a US standard, or by enforcing consistent manufacturing methods and source material selection.

The purpose of this project is to develop mass spectrometric techniques to the characterization of allergen extracts. We have already successfully applied these methods to German cockroach extracts. Other targets will include *Alternaria*, mouse, and dust mites.

In the course of this training experience, the fellow will learn and perform:


- Basic proteomic analyses (PAGE, 2D PAGE, immunoblotting)
- Protein purification (ammonium sulfate precipitation, size exclusion chromatography, affinity chromatography, immunoprecipitation)
- ELISA
- ImmunoCAP assays
- Recombinant protein expression and purification
- Sequence analyses
- HPLC
- Mass spectrometry
- Multiple reactions monitoring mass spectrometry


In addition, the trainee will have multiple opportunities to present and discuss data, orally and in




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writing.

Anticipated Appointment Start Date: June 1st, 2024

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, 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 Ethics Requirements

If an ORISE Fellow, to include their spouse and minor children, reports what is identified as a Significantly Regulated Organization (SRO) or prohibited investment fund financial interest in any amount, or a relationship with an SRO, except for spousal employment with an SRO, and the individual will not voluntarily divest the financial interest or terminate the relationship, then the individual is not placed at FDA. For additional requirements, see FDA Ethics for Nonemployee Scientists.

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 the degree with completion expected prior to the start of the appointment. Degree must have been received within the past five years.

Preferred skills:

- Hands-on experience in biology or chemistry research.

Eligibility Requirements

- **Degree:** Bachelor's Degree or Master's Degree received within the last 60 months or currently pursuing.
- **Overall GPA:** 3.20
- **Discipline(s):**
 - **Chemistry and Materials Sciences** ([12](#)👁)
 - **Life Health and Medical Sciences** ([51](#)👁)

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- **Veteran Status:** Veterans Preference, degree received within the last
120 month(s).

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

I have read the FDA Ethics Requirements.