

PROGRAM DESCRIPTION

NIH/NCI/FNLCR Pathology Fellowship

The Laboratory Animal Sciences Program (LASP) supports biomedical research at the Frederick National Laboratory for Cancer Research (FNLCR) and the National Cancer Institute (NCI). We are offering a one-year post-doctoral fellowship for candidates seeking experience in lab animal pathology to prepare for a career in industry or research. LASP is a highly collaborative environment with access to multiple state-of-art core labs. This position is targeted to board-certified veterinary pathologists or board-eligible trainees. As this fellowship is designed to assist candidates in preparing for boards (ACVP, ECVP), board preparation time will be allowed. Fellows will train under a team of veterinary pathologists in the Molecular Histopathology Laboratory (MHL) and the Center for Advanced Preclinical Research (CAPR) with a focus on cutting-edge interdisciplinary research. Trainees will gain practical experience applying pathology training in a research environment, including phenotyping, digital image analysis, and toxicologic pathology, with a special focus on the role of pathologists in the emerging field of “spatial biology”. The candidate will have the opportunity to take a central role in defined and initiated research projects, supervised by Elijah Edmondson, DVM PhD DACVP DABT, involving the application of spatial transcriptomics platforms in mouse models and evaluating perturbations associated with drug therapy, cancer progression, and metastasis as informed by histopathologic changes.

KEY ROLES/RESPONSIBILITIES

Become familiar with all phases of pathology-driven research, including study design, gross & microscopic examination of laboratory animal species, molecular pathology (IHC, RNAscope, multiplex IF), digital imaging, and advanced histologic techniques (tissue microarray construction, laser-capture microscopy, nucleic acid characterization, etc.)

- Utilize image analysis platforms (HALO, Aperio, QuPath) in biomedical research applications to gain an understanding of how artificial intelligence can be applied in modern pathology laboratories.
- Application of emerging pathology-enhanced -omics platforms – spatial biology tools – including Nanostring (GeoMX, CosMX), Akoya (CODEX, Phenocycler, Phenoimager HT), and 10x Genomics (Visium, Chromium).
- Participate in monthly lab animal pathology seminars, research meetings, and scientific publications.

BASIC QUALIFICATIONS

- Doctor of Veterinary Medicine (DVM or VMD) from an accredited college/university or equivalent degree. Additional qualifying experience may be substituted for the required education. Foreign degrees must be evaluated for U.S. equivalency. Two years of relevant experience or formal anatomic pathology training is desirable. Must be able to obtain and maintain security clearance.

PREFERRED QUALIFICATIONS

- Preference will be given to board-certified veterinary pathologists or board-eligible trainees. Equal Opportunity Employer (EOE) | Minority/Female/Disabled/Veteran (M/F/D/V) | Drug Free Workplace (DF)

Contact:

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