Department of Microbiology and Molecular Genetics  
Michigan State University  

Research Associate

Position Summary
The Department of Microbiology and Molecular Genetics seeks a Research Associate to work in the laboratory of Dr. Yong-Hui Zheng. This position will research host restrictions of HIV-1 replication and the mechanism of HIV-1 Env biogenesis. Dr. Zheng and his lab have uncovered the anti-HIV-1 activities of human APOBEC3F, APOBEC3DE, APOBEC3H, and MOV10. Recently, the lab has illustrated the degradation of HIV-1 Env proteins through the ER-associated degradation (ERAD) pathway triggered by ERManI. The lab currently has projects to study the novel functions of the HIV-1 accessory proteins Nef and Vpr in counteracting host restrictions, as well as translational research projects of developing novel anti-HIV compounds. The position requires a strong background in virology with cell biology and molecular biology expertise including:

• Cell culture  
• Molecular cloning  
• CRISPR/Cas9  
• Protein-protein interactions  
• Mass spectrometry  
• Flow cytometry  
• Fluorescence microscopy  
• RNA-seq

This is a full-time, 12-month fixed-term position with reappointment contingent on satisfactory performance and available funding.

Required Degree
Doctorate - Virology, cell biology, molecular biology

Minimum Requirements
Candidates must have a Ph.D., M.D., D.V.M., or equivalent advanced degree.

Desired Qualifications
The successful candidate should have a demonstrated track record of productive research with first author publications.

Required Application Materials
Please submit a cover letter, curriculum vitae, and the contact information for three professional references to http://careers.msu.edu posting #653342.

Summary of Health Risks
Exposure to human blood, serum, tissue and other body fluids; and materials covered under Universal Precautions.

MSU Statement
Michigan State University has been advancing the common good with uncommon will for more than 160 years. One of the top research universities in the world, MSU pushes the boundaries of discovery and forges enduring partnerships to solve the most pressing global challenges while providing life-changing opportunities to a diverse and inclusive academic community through more than 200 programs of study in 17 degree-granting colleges.