A newly-open postdoctoral fellow position is available in the laboratory of Jian Zhu at the Department of Microbiology & Immunology of University of Rochester Medical Center (URMC). The general interest in the lab is to study the host-virus interactions, particularly for HIV and herpesviruses, by using recently developed, "state-of-the-art", multidisciplinary systematic approaches. We work at the interface of virology, immunology, cellular and molecular biology, proteomics, and functional genomics. Currently, one of the specific directions is to identify key host machineries that regulate viral latency and reactivation for HIV and herpesviruses, by combining the genome-wide RNA interference (RNAi) screening together with various modern proteomic approaches including our recently developed PLATO (ParalleL Analysis of Translated ORFs) synthetic display method. The molecular functions of candidate genes identified from screening will be further explored using virological, biochemical, molecular and cellular approaches.

Department of Microbiology & Immunology of URMC is a national leader in NIH research funding and offers outstanding infrastructure, state of the art core facilities, and a highly collaborative research environment focused on immunology and infectious diseases. Collaborations among basic science disciplines and between basic and clinical faculty are stimulated by multidisciplinary centers at URMC: the Center for AIDS Research (CFAR), the Respiratory Pathogens Research Center (RPRC), and the Center of Excellence in Influenza Research and Surveillance (NYICE).

The qualifications required for this position include:
Ph.D. in Virology, Microbiology, Genetics, or a related field; Independent and self-motivated to manage the project; Possessing necessary experimental skills and being productive; Able to work with colleagues closely as a teammate.

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