**Title: Postdoctoral Fellowship for Molecular Biologist**

**CONTACT:**

Dr. William Jacobs
Professor
Department of Microbiology and Immunology
Price Center, Room 577
Email: jacobsw@hhmi.org

**JOB DESCRIPTION:**

Position available for a POSTDOCTORAL FELLOW in Dr. William Jacobs’s lab at the Albert Einstein College of Medicine in Bronx, New York to develop a next generation reporter mycobacteriophage vector that will rapidly detect *Mycobacterium tuberculosis* and assess susceptibilities of TB drugs. The successful applicant should be trained in molecular biology and have experience with phage biology. The ultimate goal is to develop a point of care test that can be inexpensive and applicable in the Developing World. The Jacobs lab has a 30 year history of using mycobacteriophages as tools for studying Tuberculosis. The applicant should have demonstrated innovation with a Ph.D. that has focused on an interesting problem of some pathogen that infects humans of animals.  Prior experience with *M. tuberculosis* is not absolutely necessary, but a passion for science and a focused curiosity are required. This project will be in collaboration with Global Good by Intellectual Ventures, more information can be found at: http://www.intellectualventureslab.com/about/relationships/global-good

Dr. Jacobs publications can be found at:

<https://www.ncbi.nlm.nih.gov/sites/myncbi/williamr.jacobsjr..1/bibliography/43476381/public/?sort=date&direction=descending>

Postdoctoral fellows with at least 2-3 years of experience are strongly preferred. Applicants should have expertise in molecular and phage biology and preferably mycobacterial genetics. First author publication(s) in peer-reviewed, English language journals are necessary. Ability to work independently, creativity, motivation and a strong work ethic are important. A curriculum vitae with a description of research experiences and contact information for three references should be sent to: jacobsw@hhmi.org

The Department of Microbiology & Immunology has a big tent dedicated to excellence in research with the ultimate goals of improving human health and training the next generation of biomedical research scientists. The faculty comprises a unique combination of basic researchers, and physician-scientists who have additional appointments in clinical divisions such as Infectious Diseases, Rheumatology, and Allergy and Immunology. The Department is highly interactive, meets weekly for work-in-progress seminars, and for an immunology journal club and hosts numerous outside seminar speakers.

The Albert Einstein College of Medicine (Einstein) is one of the nation’s premier institutions for basic research and clinical investigation with ~300 research laboratories funded by more than $160 million from the National Institutes of Health. There are ~350 PhD students, including 125 in the combined MD/PhD programs, and ~350 postdoctoral fellows at Einstein <http://einsteinpostdocs.info/>

Albert Einstein College of Medicine of Yeshiva University is an Equal Opportunity Employer.

**Title: Postdoctoral Fellowship for Immunologist/Virologist**

**CONTACT:**

Dr. William Jacobs
Professor
Department of Microbiology and Immunology
Price Center, Room 577
Email: jacobsw@hhmi.org

**JOB DESCRIPTION:**

Position available for a POSTDOCTORAL FELLOW in Dr. William Jacobs’s lab at the Albert Einstein College of Medicine in Bronx, New York to develop vaccines against Tuberculosis and HIV using a novel recombinant Herpes Simplex Virus-2 (HSV-2) Δ*gD* vaccine vector (Petro, C., Gonzalez, P. *et al.* 2015 eLife PMID 25756612; Petro *et al*. 2016 JCI Insight PMID 27536733). The project will involve mechanistic analyses with the aims of exploring the use of vaccine vectors that elicit high titer FcR activating ADCC antibodies to provide protection against HIV and *Mycobacterium tuberculosis* .This work will be conducted in collaboration with Dr. Betsy Herold, Pediatric Infectious Diseases and Microbiology-Immunology at Einstein/Montefiore. Publications at: <https://www.ncbi.nlm.nih.gov/sites/myncbi/williamr.jacobsjr..1/bibliography/43476381/public/?sort=date&direction=descending>

Postdoctoral fellows with at least 2-3 years of experience are strongly preferred. Applicants should have a track record of research excellence, and expertise in genetic manipulation of Herpes viruses or *M. tuberculosis*, immunological analyses or animal infection models. First author publication(s) in peer-reviewed, English language journals are necessary. Ability to work independently, creativity, motivation and a strong work ethic are important. A curriculum vitae with a description of research experiences and contact information for three references should be sent to: jacobsw@hhmi.org

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