

Postdoctoral Scholar Positions - Vaccine Development, Bacterial Pathogenesis and Immunology Research

The Curtiss and Clark-Curtiss research groups in the College of Veterinary Medicine and the Emerging Pathogens Institute are seeking applications for multiple postdoctoral investigators.

An expanding innovative vaccine development research program is focused on the design, construction, and evaluation of recombinant attenuated *Salmonella* antigen and DNA vaccine delivery vaccines to induce mucosal, systemic and/or cellular immune responses, as appropriate, to confer protection in agriculturally important and domestic animals and in humans to a diversity of bacterial, viral, and parasite pathogens. Current endeavors are directed at vaccines to prevent infections by: *Streptococcus pneumoniae* (and other streptococcal pathogens), *Mycobacterium tuberculosis* (and other mycobacterial pathogens), *Clostridium perfringens*, *Yersinia pestis*, enteric pathogens such as *Salmonella*, *Escherichia* pathovars, *Shigella* sp. and *Yersinia* sp., noroviruses, coronaviruses, influenza viruses (human, swine and avian), *Taenia solium* and *Eimeria* species. Recombinant and non-recombinant attenuated *Yersinia* and *Edwardsiella* platforms are also under development to deal with zoonotic reservoirs and aquatic pathogens, respectively. Vector constructs are also being designed to enhance innate immunity and to treat cancers.

Research on mechanisms of pathogenicity of several infectious disease agents of agriculturally important animals and humans is also to be expanded with work on mycobacterial pathogens of ruminants and humans and viral diseases of poultry and swine.

The availability of numerous recombinant attenuated *Salmonella* vaccines constructed to maximize induction of mucosal or systemic antibody or specific types of cellular immunity afford opportunities to dissect and better understand basic immunological principles. We have a special interest in neonatal immunology and in using vaccine constructs to beneficially alter the gut microbiome in pigs.

We have positions for postdoctoral investigators with a strong motivation and exceptional talents who strive to develop into innovative, self-reliant research investigators. Postdoctoral investigator candidates must have a recently awarded or soon to be awarded PhD, DVM, MD, DDS, or DMD degree. Individuals with a diversity of relevant research backgrounds in immunology, microbiology, viral and/or microbial pathogenesis, microbial genetics, molecular biology, animal science and/or bioinformatics/computer science are desired. Salaries will be commensurate with years of experience.

The University of Florida is an equal opportunity employer. Applications will be evaluated as received until the search is closed by recruitment of multiple qualified postdoctoral scholars. Please send a current CV, a statement outlining short- and long-term research and career goals, and arrange for three letters of reference to be sent to:

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