Postdoctoral Fellow Position
in Basic and Translational Immunology and Microbiome Research

Liver Diseases Branch
National Institute of Diabetes and Digestive and Kidney Diseases
National Institutes of Health
Department of Health and Human Services
Bethesda, Maryland, USA

An NIH-funded postdoctoral position is immediately available in the laboratory of Dr. Barbara Rehermann, Immunology Section, Liver Diseases Branch, NIDDK, NIH in Bethesda, Maryland, USA to conduct translational and basic studies on immune responses to viruses, in particular those that affect the liver, and the regulation of systemic and hepatic immune responses by the gut microbiome.

The laboratory conducts translational studies of well-defined patient cohorts to understand disease progression in chronic viral hepatitis, to assessing immune-modulatory therapies for hepatitis B and hepatitis D virus infection, and to developing prophylactic vaccines against hepatitis C virus and hepatitis D virus infection (Gastroenterology, 153:1392-1403: 2017; Immunity, 40:13-24, 2014).

The laboratory also conducts basic and translational studies to understand the regulation of inflammation and immunity by the gut microbiome based on the concept that natural microbiota co-evolved with their respective hosts under evolutionary pressure and confer host fitness-promoting. For example, the laboratory has recently developed a mouse model that combines the tractable genetics of the standard laboratory mice with the fitness-promoting traits of microbes (Cell, 171: 1015-1028, 2017). This model may identify mechanisms of host physiology and disease resistance in the natural world, improve preclinical efficacy and safety testing, and more accurately reflect diseases in humans (see https://www.youtube.com/watch?v=SbFM7NC8yUg).

This postdoctoral position will provide excellent training opportunities in human and/or mouse immunology. Opportunities for extensive collaborations within the NIH research community and a supportive environment with a roadmap into independence are in place.

Applicants must have a Ph.D., M.D. or D.V.M. degree, and fewer than 3 years of postdoctoral training. Previous experience in multiparameter flow cytometry, molecular biology, gene expression analysis, intestinal cell isolation, and/or mouse models of disease is desired. Appointees may be US citizens, resident aliens, or non-resident aliens with or eligible to obtain a valid employment authorized visa. Salary is commensurate with research experience and accomplishments. Applications from women, minorities and persons with disabilities are strongly encouraged. Interested candidates should send an application including CV and contact information for three references, to:

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