Employer	Boston Children's Hospital (BCH), United States
Basic Information	
Job title	Postdoctoral Research Fellow
Job description	A postdoctoral research fellowship is available in the Levy Lab within in the *Precision Vaccine Program* (PVP), Division of Infectious Diseases at Boston Children's Hospital and Harvard Medical School. Prof. Ofer Levy is the Program Director. The position will focus on the human immunity project described below and will be co-mentored by Dr. Levy and Dr. Guzman Sanchez-Schmitz, expert in tissue engineering and Instructor at Harvard Medical School . Our overarching goals are to unravel the molecular mechanisms underlying distinct immune responses of vulnerable human populations (e.g., the young, elderly or immunocompromised) and apply discoveries to vaccine development. Our approach combines age- and species-specific *in vitro* modeling of human immunity with a focus on functional, biochemical and systems immunology readouts in relevant *in vitro* and *in vivo* model systems. Specifically, we are looking for candidates in a human *in vitro* modeling. **Human *in vitro* modeling:** The postdoc will lead projects related to developing and employing human microphysiologic three-dimensional *in vitro* tissue construct systems to characterize age-(newborns/elders) immunity (see Sanchez-Schmitz, G et al Front Immunol 2018: https://doi.org/10.3389/fimmu.2018.02634). Focus will include *in vitro* modeling of both innate and adaptive immunity and modeling cell mediated immunity *in vitro* and *ex vivo*. Systems biology approaches are employed for hypothesis generation and testing, such as transcriptomics, proteomics, metabolomics. This position is funded by a Bill and Melinda Gates Foundation grant and multiple NIH grants. **Qualifications:** • A doctoral degree (PhD and/or MD) is required (or soon to be completed), together with a strong track record of productivity, as evidenced by first-authored publications in peer-reviewed scientific journals.

	• The ideal candidate(s) will have a track record of applying innovative experimental strategies to tackle important biologic problems, together with the communication and interpersonal skills required to make a positive contribution to a thriving intellectual environment. • Experience in maintaining good collaborative external and internal communications a bonus, with a focus on team science and some willingness to contribute to project management. • Experience in human in vitro modeling, such as Dendritic Cell, T cell evaluation a plus, but not required. • Prior experience in studying distinct human populations that vary by age, sex, underlying disease or other demographic features is a plus. **Application information:** • Review of applications will begin immediately. Applications will be considered on a rolling basis. • Full-time position with competitive salary/benefits commensurate with experience. The position(s) is fully funded and may be held for up to 5 years. • To apply, interested candidates should **please email a curriculum vitae (CV) listing the names and contact information for at least two references**, a brief statement or cover letter of research interests, motivation and experience (no more than ~1 page), and a publication/manuscript/pre-print the candidate has written, to Dr. Guzman Sanchez-Schmitz (guzman.sanchez-schmitz@childrens.harvard.edu) and Ofer Levy (ofer.levy@childrens.harvard.edu). **Learn more about us:** • BCH Website: bit.ly/PrecVaccines • Twitter: @PrecVaccines
Advanced Information	
Type of job	Postdoctoral
Discipline	Biomedicine
Required qualification	PhD
Job duration	Fixed Term
Job hours	Full Time
Job location – City	Boston
Job location – Country	United States
Job location – State	*MA*
Applications	
How applicants should apply – by email to both emails	ofer.levy@childrens.harvard.edu, Guzman.Sanchez-Schmitz@childrens.harvard.edu
Deadline for application	Aug 8, 2022

Employer website	https://www.childrenshospital.org/research/departments-divisions-programs/departments/pediatrics/precision-vaccines-program