Postdoctoral position gut-lung-brain immune axis and mycobiota (experimental or computational), The Iliev Lab, Weill Cornell Medicine, NYC

Postdoctoral positions (experiential or computations) in immunology and host-microbiota immune interactions in the gut, gut-lung or gut-brain axis are available at Weill Cornell Medicine, NYC; https://ilievlab.weill.cornell.edu/. The laboratory of Dr. Iliyan D. Iliev is looking for a recent Ph.D. graduates with a strong background and expertise in **one of the following areas**:

> - **Immunology, gut-lung or gut-brain axis** (expertise in innate immunity, antibody-mediated immunity or related)
> - **Computational biology** (strong quantitative background and interests in scRNAseq analysis, human disease-relted datasets, genetics and/or metagenomics)

The lab studies the interaction between host immunity, mycobiota and how this interplay influences immune homeostasis of the gut, lung and the brain; or human diseases with intestinal component (Cell 184 (4): 1017 (2021); Cell Host & Microbe 27(5):823-829 (2020); Cell 183(2):411-428 (2020); Science 359 (6372): 232(2018); Science 365(6452): eaaw4361(2019), Cell Host & Microbe 24(6) 847-56 (2018); Science 336(6086):1314-7; Cell Host & Microbe 19(6):865–73; Nat. Rev. Immunol. 14(6):405-16).

Requirements: Ph.D. in a field related to immunology (or computational biology for the computational position). At least one first authored peer reviewed publication in the field of immunology (or related to computational biology respectively).

For the immunology position: Experience in immunology, expertise in innate immunity or antibody-mediated immunity preferred. Multi-color FACS expertise and knowledge of standard immunology techniques, and in vivo modeling is required. Previous experience in molecular biology or gene editing expertise is viewed favorably, but not required.

For computational position: Quantitative background, R and/or Python, some level of programming skills C/C++ , Python or equivalent. Experience with high performance cluster computing systems, handling large datasets or expertise in tool development is a plus but not requited.

Applicants are encouraged to submit curriculum vitae, brief description of research accomplishments, list of publications (published and "in preparation"), and the names of three references into a single document to Iliev[at]med.cornell.edu

Specific projects will be discussed with potential applicants depending on their field of expertise and interests. Projects are centered around several main themes (not in specific order): innate immune interactions in diseases of inflammatory origin: IBD, allergic airway diseases, disease predisposition development in erly life.; antibody-mediated immunity to microbiota in IBD; gut-mediated systemic immunity with focus on gut-lung & gut-brain axis; computational mycobiome-centered tools development and analysis; early life immune development and disease predisposition. We provide excellent scientific and collaborative environment within our interdisciplinary laboratory https://ilievlab.weill.cornell.edu/, the Jill Roberts Institute for research in IBD and Weill Cornell/Rockefeller/Sloan-Kettering Tri-Institutional campus.