



Weill Cornell Medicine

Jill Roberts Institute for Research
in Inflammatory Bowel Disease

Postdoctoral fellow in experimental or computational host-mycobiome interactomics in immunity, IBD and cancer; WCM, NYC

Postdoctoral position in host-mycobiome interactomics (computational or experimental) is available at Weill Cornell Medicine, NYC. The laboratory of Dr. Iliyan D. Iliev is looking for recent Ph.D graduates with strong background and expertise in one of the following area:

Immunology, Microbiology, or Computational biology with focus on experimental immunology, disease modeling or data analysis (metagenomics, transcriptomics, fungal or bacterial genome/ transcriptome analysis).

Highly motivated individuals with interests in the above fields are welcome to apply. The lab studies the interaction between host immunity, commensal fungi and bacteria and how this interplay influences immune homeostasis, microbiota function or diseases of inflammatory and neoplastic origin (*Science* 2018; 359 (6372): 232-6; *Cell Host & Microbe* 2018; 10.1016/j.chom.2018.11.003; *Cell Host & Microbe* 2016; 19(6):865–73; *Science* 336(6086):1314-7; *Nature* 491(7422):119-24; *Nat. Rev. Immunol.* 14(6):405-16).

The successful candidate will benefit from 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, state of art research facilities, extensive fully characterized disease cohorts, fungal biology, expertise in disease modeling, pyrosequencing platforms, computational biology and access to rare gut mycobiota-centered disease datasets. The lab has close collaborations with other research programs in the institute investigating immunity and microbiota to translate research findings into mechanisms of human diseases. Successful candidates will join a dynamic team of scientists and will have an opportunity to develop basic science-centered and/or translational research projects on one of the above mentioned topics.

Position 1

- Ph.D. in immunology or microbiology with specific focus on one of the following areas: mucosal-, fungal-, cancer-, neuro- or vaccine immunology
- Advanced expertise in flow cytometry, mouse models (gut inflammation, mucosal vaccines, cancer, or behavior), imaging, and previous work with tissue resident cell populations is required
- Some familiarity with microbiome analysis, single cell RNA seq analysis and computational tools is preferred, but not required for position 1

Position 2

- Ph.D. in computational biology or related field
- Expertise in computational methods, tools and databases utilized in genomics, metagenomics, (meta)/transcriptomics, single cell transcriptional analysis or bacterial/ fungal genetics data analysis
- Programming skills in R, Python, and C/C++ or equivalents and experience with high performance cluster computing queuing systems, and experience with data visualization using R and/or Python
- Ability to analyze and interpret statistical data, and communicate results in a clear, concise manner

Please contact Dr. Iliyan Iliev with further questions or directly apply by sending a curriculum vitae, brief description of research accomplishments, list of publications (published and “in preparation”), and the names of three references to iliev@med.cornell.edu.