

Job Description

Postdoctoral Research Fellow in Mempel laboratory at MGH/HMS

Position Description

The Mempel laboratory in the Center for Immunology and Inflammatory Diseases (CIID) at Massachusetts General Hospital and Harvard Medical School is seeking a postdoctoral research fellow interested in basic immunological mechanisms of tumor immunity and the discovery of novel strategies in cancer immunotherapy. Projects follow up on our prior studies on the chemotactic mechanisms that guide the migration of tumor-infiltrating cytotoxic T cells and their interactions with cancer cells and antigen-presenting dendritic cells (e.g. Di Pilato M. et al, *Cell*, 2021). Job activities will include:

- Working with experimental mouse models of cancer
- Fluorescence-activated cell sorting and multicolor flow cytometry
- Genetic engineering of cancer cell lines and primary immune cells (CRISPR, retroviral vectors)
- Breeding of complex genetic mouse models
- Epigenomic and transcriptomic analyses (ATAC-Seq, Histone-ChIP-Seq etc.)
- Multiphoton Intravital Microscopy to study intratumoral immune cell-interactions

Qualifications

A highly motivated PhD and/or MD PhD with a strong background and experimental expertise in cellular and molecular immunology, and not more than 0-2 years of prior post-doctoral training. A documented track record of significant prior scientific achievement in the field of Immunology or closely related disciplines (E.g., Genetics, Biochemistry, Molecular Biology, Cell Biology) is required (first or shared first author original publications). Knowledge of computational approaches with bioinformatics background is also preferred, but not required. Candidates should be able to work independently, but with the ability to engage with a collaborative, dynamic team. They should have exceptional organizational skills and strong oral and written communications skills.

Applicants should submit 1. a cover letter describing their previous scientific accomplishments and interests and career goals, 2. their C.V., 3. Any in press manuscripts or preprints, and 4. contact information for three references via e-mail to:

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