Postdoctoral fellow at Mount Sinai

Employer: BioMedical Engineering and Imaging Institute, Icahn School of Medicine at Mount Sinai
PI: Prof. Zahi A. Fayad
Location: New York City, NY, USA

We seek a highly motivated, creative, and innovative postdoctoral fellow to join our team at the BioMedical Engineering and Imaging Institute at the Icahn School of Medicine at Mount Sinai in New York City. We are specifically looking for team member with a background in immunology and interest in biomedical engineering and imaging.

Our lab operates on the interface of immunology and radiology. We employ *in vivo* and *ex vivo* imaging techniques and immunologic assays to study a variety of disorders, including cardiovascular disease, cancer, and organ transplant rejection. Besides monitoring immune responses in these conditions, our multidisciplinary team develops nanotherapeutics to improve disease outcomes. The Icahn School of Medicine at Mount Sinai provides a unique environment for immunoimaging research. For example, we have access to state-of-the-art flow cytometry and microscopy equipment as well as a large vivarium that enables executing extensive animal studies. In addition, the Institute’s cutting-edge imaging facilities (including PET, MR and CT modalities) allow innovative small and large animal imaging studies. Our dynamic team includes bioengineers, imaging experts, chemists and immunologists. We formally collaborate with investigators at Radboud University Medical Center in the Netherlands, New York University, Massachusetts General Hospital, and Memorial Sloan Kettering Cancer Center.

**Tasks and responsibilities:**
- Assessing immune responses to psychosocial stress and other lifestyle factors
- Developing and employing *in vivo* and *ex vivo* methods to study immunometabolism
- Evaluating of novel immuno-PET imaging probes
- Sharing your results through scientific publications and oral presentations

**Requirements:**
- A PhD in immunology or a related discipline
- Experience in high-parameter flow cytometry and other techniques like immunofluorescence microscopy, transcriptomic analysis, and basic molecular biology assays. Experience in animal research is preferred
- Excellent organizational skills
- Excellent communication and writing skills in the English language.
- Ability to work in a collaborative environment

**Application procedure:**
Interested candidates can apply by email to mandy.vanleent@mountsinai.org.
The following documents are required:
- Cover letter
- Curriculum vitae
- At least two letters of support stating the suitability of the applicant for this position

Affordable housing, an excellent health plan, and multiple other benefits are included in the position.