Postdoctoral Fellow in Nanomedicine and Chemistry

Employer: Mount Sinai School of Medicine
Research lab: Biomedical Engineering and Imaging Institute
PI: Dr. 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 of the Icahn School of Medicine at Mount Sinai in New York City. We are specifically looking for a team member with a background in nanomedicine and organic chemistry.

Background:
Our young and dynamic team comprises chemists, bioengineers, imaging experts, and immunologists. Together, we strive to develop novel tools for studying and modulating the innate immune system. This includes synthesizing novel drugs and nuclear imaging tracers, but also developing procedures to non-covalently assemble these compounds into nanomaterials and extensively characterizing their behavior in vivo. Our work has a particular emphasis on studying cancer, cardiovascular disease, and organ transplant rejection. In addition to extensive chemistry equipment (dedicated radiochemistry facility, NMR, HPLC, MS, and flash chromatography system) we have access to state-of-the-art flow cytometry, sequencing, and microscopy equipment as well as a cell culture-lab and large vivarium that enables extensive studies in both small and large animal models. Furthermore, our cutting-edge imaging facilities (including PET, MR, and CT modalities) facilitate translational research. We formally collaborate with the Cardiovascular Research Institute at Mount Sinai, as well as 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:
- Develop and employ novel nanomaterials for immunotherapy.
- Perform basic organic synthesis and radiolabeling.
- Perform cell culture and in vitro analyses.
- Share your results through scientific publications and oral presentations.
- Be part of a highly motivated multidisciplinary team consisting of chemists, immunologists, medical doctors and in vivo imaging specialists.

Requirements:
- A Ph.D. in nanomedicine, organic chemistry, or a comparable discipline.
- Profound experience in common chemical and biomedical analytical techniques.
- Excellent communication and writing skills in the English language.
- You are a team player and excited to collaborate with others.
- Experience in immunology and biomedical research is desirable.
Application procedure:
Interested candidates can apply by email to bram.teunissen@mssm.edu. The following documents are required:
- A 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. Please do not hesitate to reach out with any questions.