

Postdoctoral Fellow in Radiochemistry

Employer: Icahn School of Medicine at Mount Sinai
Research lab: Biomedical Engineering and Imaging Institute
PI: Dr. Abraham Teunissen
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 Mount Sinai School of Medicine in New York City. Specifically, we are looking for a team member with a background in (radio)chemistry and an interest in medicine.

Background:

Our lab strives to leverage synthetic (radio)chemistry to develop innovative nanotherapeutics and imaging probes, and employ these to study organ transplant rejection, cardiovascular disease, and cancer. In addition to extensive chemistry equipment (radiochemistry facility, NMR, HPLC-MS, FT-IR, flash chromatography, etc.) we have access to state-of-the-art flow cytometry, next-generation sequencing, and microscopy equipment as well as a large vivarium that enables studies in small and large animal models. Furthermore, our cutting-edge imaging facility hosts preclinical and clinical PET, MR, and CT modalities. Our dynamic team closely collaborates with bioengineers, imaging experts, and immunologists to produce cutting-edge research. We also formally collaborate with investigators at Massachusetts General Hospital, Harvard, the Mayo Clinic, the University of Pittsburg, and the Radboud University Medical Center in the Netherlands.

Tasks and responsibilities:

- Develop PET imaging probes for studying the immune system in health and disease.
- Analyze these structures with diverse analytical techniques.
- Help design and perform *in vivo* studies.
- 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. degree in radio- or organic chemistry.
- Profound experience in common analytical techniques (HPLC, NMR, FT-IR, UV-Vis).
- Excellent communication and writing skills in the English language.
- You are a team player and excited to collaborate with others.
- Experience in nanomedicine and immunology is highly desirable.

Compensation:

The Mount Sinai Health System (MSHS) provides a salary range to comply with the New York City Law on Salary Transparency in Job Advertisements. The salary range for this role is \$72,500.00 - \$80,000.00 annually. Actual salaries depend on various factors, including experience, education, and hospital needs. The salary range or contractual rate listed does not include bonuses/incentives, differential pay or other compensation. Affordable housing, an excellent health plan, and multiple other benefits are included in the position.

About the Mount Sinai Health System:

Mount Sinai Health System is one of the largest academic medical systems in the New York metro area, with more than 43,000 employees working across eight hospitals, more than 400 outpatient practices, more than 300 labs, a school of nursing, and a leading school of medicine and graduate education. Mount Sinai advances health for all people, everywhere, by taking on the most complex healthcare challenges of our time — discovering and

applying new scientific learning and knowledge; developing safer, more effective treatments; educating the next generation of medical leaders and innovators; and supporting local communities by delivering high-quality care to all who need it. Through the integration of its hospitals, labs, and schools, Mount Sinai offers comprehensive healthcare solutions from birth through geriatrics, leveraging innovative approaches such as artificial intelligence and informatics while keeping patients' medical and emotional needs at the center of all treatment. The Health System includes approximately 7,400 primary and specialty care physicians; 13 joint-venture outpatient surgery centers throughout the five boroughs of New York City, Westchester, Long Island, and Florida; and more than 30 affiliated community health centers. The Mount Sinai Health System is an equal-opportunity employer. We comply with applicable Federal civil rights laws and do not discriminate, exclude, or treat people differently on the basis of race, color, national origin, age, religion, disability, sex, sexual orientation, gender identity, or gender expression. We are passionately committed to addressing racism and its effects on our faculty, staff, students, trainees, patients, visitors, and the communities we serve. Our goal is for Mount Sinai to become an anti-racist healthcare and learning institution that intentionally addresses structural racism.

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

Relevant websites:

<https://labs.icahn.mssm.edu/teunissenlab/>

<https://bmeiisinai.org>

Please don't hesitate to reach out with any questions.