

APPLICATION FORM FOR FELLOWSHIPS

Name of Institution: Jewish General Hospital (JGH)

Location: Montreal, Quebec

Type of Fellowship: Molecular Imaging and Theranostics Fellowship

Number of positions: one (1)/year

Length: 1 year (12 months/13 periods)

Program Information (please append description)

o Number of fellowship positions requested: 1

o Academic affiliation: McGill University

o Name of hospitals involved in training (% time spent by the fellow in each institution):

The fellowship program will be based at the Jewish General Hospital.

o Background: *The Nuclear Medicine department at the Jewish General Hospital offers an excellent academic environment and comprehensive clinical training in molecular imaging for a wide variety of applications, along with a proper exposure to an array of different radionuclide therapies such as Iodine-131 used for thyroid cancer and more recently Lutetium-177 radiolabeled compounds for neuroendocrine tumors and prostate cancer. The department is equipped with a new generation digital PET/CT providing a greater degree of lesion detectability and precision, and allowing for shorter acquisition protocols which enhances workflow and optimizes patient care and allows new applications for small lesion detection. Moreover, the faculty members at the JGH nuclear medicine department are strongly devoted to teaching and research. They have continuously been involved with several clinical research activities and have always been dedicated to the advancement of knowledge, with particular interest in the field of prostate cancer imaging and therapy, as well as infection imaging.*

o Research activity: *Several clinical trials involving new molecular agents for imaging and therapy are routinely ongoing at the JGH and more are to come. The hospital setting offers high collegiality with great opportunities for collaboration with other departments including the very research-oriented oncology team. The fellow is encouraged to pursue their main research project, as preemptively defined in accordance with the Fellowship Program Director. They will be given teaching and support to attain their research goals and will have access to a variety of research personnel and support staff. The fellow will also collaborate on the other ongoing research trials and participate in organizing, managing, and reporting studies related to the research they pursue.*

o Publications: *The fellow is expected to complete their main research project, as feasible, within their year of fellowship and report their findings to the Fellowship Program Director and other colleagues as appropriate. They will be expected to publish the results in a journal related to the field of nuclear medicine or the topic of his/her main research project.*

o Mission: *The mission of this combined clinical- research fellowship program is to provide a thorough experience and extensive training in PET/CT imaging with particular emphasis on oncology using more novel radiopharmaceuticals along with exposure to therapeutic applications of a variety of radioisotopes in the field of neuroendocrine and prostate cancer. At least 50% of the fellow's time will be spent on clinical work. Additionally, this fellowship is intended to engage the fellow into organized well-constructed research projects, both fundamental and clinical, to be trained for academic work and familiarize with the steps of academic research. There will be a particular emphasis put on the value of pursuing research to reach a practice-changing outcome.*

At the end of the fellowship, the trainee will develop the following competencies:

- **Communicator:** Write effective reports in Nuclear Medicine, PET/CT and therapies. Clearly communicate with other physicians and the patients.
- **Collaborator:** Multidisciplinary collaboration is required to integrate theranostics into the clinical care course of the patient. The fellow should be able to lead multidisciplinary rounds involving theranostics.
- **Leader:** Develop leadership abilities to lead Nuclear Medicine departments and health care teams involved with theranostics.
- **Health Advocate:** advocate to provide and obtain access for the patient for novel radiopharmaceuticals.
- **Scholar:** Become proficient in the literature and interpretation of PET/CT and theranostics studies.
- **Professional:** Fellows are expected to develop and maintain professional behaviour with all health care providers and patients.

o Outline how intended fellowship will enhance residency training: *The fellowship program is intended to expand the trainee's expertise and strengthen their competence so that at the end of training, the fellow will be capable of functioning autonomously and run a nuclear medicine service. In addition, this program will provide an academic research environment that is not otherwise formally offered at McGill during of residency.*

Name of the Fellowship Program Director: Dr. Gad Salomon Abikhzer

Names of the Teaching Faculty

Dr Gad Salomon Abikhzer

o Roles: *Fellowship Program Director; Nuclear Physician in charge of the PET/CT at JGH; Principal Investigator of multiple clinical trials at JGH.*

o Summary of clinical practice: *General Nuclear Medicine and PET/CT imaging, with interest in novel radiotracers for PET and infection imaging.*

o Major Strengths: *Teaching of residents and fellows, developing research protocols and collaboration.*

Dr Stephan M. Probst

o Roles: *Head of Nuclear Medicine at JGH; Principal Investigator of several clinical trials at JGH.*

o Summary of clinical practice: *General Nuclear Medicine and PET/CT imaging, with interest in PSMA radiotracers, theranostics and prostate cancer.*

o Major Strengths: *Teaching of residents and fellows, developing research protocols and collaboration.*

Academic Facilities

o Outline facilities for clinical and academic pursuit: *Clinical Nuclear Medicine department of the Jewish General Hospital and Lady Davis research institute. Research Institute of McGill University Health Centre (if applicable).*

o Library access, materials relevant to fellowship training: *nuclear medicine book library at the Jewish General Hospital and Royal Victoria Hospital.*

o Multimedia learning materials available: *McGill's online library.*

o Availability of a skills lab if applicable: *not applicable.*

Fellow Duties and Responsibilities

o Call responsibilities to cover service: *not applicable.*

o Include whether the fellow is the senior supervisor of residents: *The residents will be predominantly supervised and evaluated by the attending staff. The fellow can supervise residents' research activities.*

- o **Outline whether there are fixed rotations at various institutions:** *Time will be spent at the Jewish General Hospital and if applicable, RI-MUHC or other as related to the research tasks to be performed. The fellow will be given the opportunity for a 4–8-week elective rotation which could be spent in general nuclear medicine, diagnostic radiology or to complete his/her research project.*
- o **Outpatient clinic responsibilities need to be outlined:** *Not applicable.*
- o **Outline role of the fellow towards residents on service:** *The Fellow supervises the residents when they participate in clinical research projects. The fellow may also be involved in overseeing the resident during certain procedures such as while administering therapy or during patient counselling for theranostics.*
- o **Teaching responsibilities towards residents:** *The fellow is encouraged to engage in residents' teaching during daily clinical activities and prepare a formal lecture/display teaching cases once a month during the residents' academic half day.*
- o **Outline participation in academic activities involving the residents:** *as above.*
- o **Describe any support staff available to the fellow:** *program coordinator (Ruth Ramadeen).*
- o **Proposed meetings to be attended by the fellow:** *Annual SNMMI and/or EANM meetings should be attended by the fellow.*
- o **Research productivity and publications expected by the Fellow:** *The fellow is expected to report and publish the results of his main fellowship project as well as present interim findings at major Nuclear Medicine conferences.*

Curriculum

- o **Intended case load:** *The fellow should be able to manage and dictate the daily caseload of PET/CT studies as well as all clinical research studies performed at the Jewish General Hospital.*
- o **Intended Percentage of varieties of cases:** *PET/CT cases for a variety of oncology, infection and inflammation indications.*
- o **Regular reading materials provided (if any):** *The fellow is expected to follow most current literature on the topic of his main research project.*
- o **Conference weekly schedules:** *not applicable.*
- o **Role of the fellow in attending, presenting, supervising, organization:** *the fellow will be given the opportunity to attend and present at various tumor board meetings taking place at the JGH.*

o Feedback: The fellow will be given formal feedback at least every three periods as per PGME rules.