Université de Montréal

POST-DOCTORAL RESEARCH FELLOW

Site: CRCHUM
Pavillon R, Cancer Axis
900, rue Saint-Denis, Montréal (Qc) H2X 0A9
Faculté de médecine, Université de Montréal

Laboratory /Group of: Dr. Saima Hassan
https://www.chumontreal.qc.ca/en/crchum/researchers/saima-hassan

Subject description: Under the supervision of Dr. Saima Hassan, the post-doctoral fellow will work in her translational research laboratory in breast cancer. Dr. Hassan's research projects aim to better understand the efficacy of PARP inhibitors, either as single agents or in combination, such as carboplatin, in breast cancer cell lines, mice models, or three-dimensional organoid models derived from breast cancer patients. The overarching objective is to identify strategic PARPi combinations and which patient population will best respond to PARP inhibition.

References:

1. Yordanova M, Hubert A, Hassan S. Expanding the use of PARP inhibitors as monotherapy and in combination in triple-negative breast cancer. Pharmaceuticals 2021 Dec 6;14(12):1270. doi: 10.3390/ph14121270. Review
2. Beniey M, Haque T, Hassan S. Translating the role of PARP inhibitors in triple-negative breast cancer. Oncoscience,2019 Jan;6(1-2). https://doi.org/10.18632/oncoscience.474. Editorial
3. Hassan S, Esch A, Liby T, Gray JW, Heiser LM. Pathway-enriched gene signature associated with 53BP1 response to PARP inhibition in triple-negative breast cancer. Mol Cancer Ther. 2017 Dec;16(12):2892-2901. doi: 10.1158/1535-7163.MCT-17-0170. Epub 2017 Sep 27

Mains themes /disciplines: Cellular Biology, Chemosensitivity Assays, High-Content Imaging, Immunofluorescence, Molecular Biology, Western Blots, Immunohistochemistry, Animal handling and in-vivo drug assays, Patient-derived xenografts and organoids, gene signatures and predictive biomarkers.

Program of formation: Biomedical Sciences, Molecular Biology

Responsibilities:

- Skills in molecular biology techniques, including cell culture, immunohistochemistry, immunofluorescence, flow cytometry, western blots, and mice handling (including surgeries for tumor implantations and drug treatments).
- Data analysis and project management
- Will help to teach techniques to graduate and undergraduate students within lab
- Writing abstracts, posters/presentations for conferences, and manuscripts in English
- Will apply for bursary fellowships
- Collaborative and respectful of lab members, dynamic, efficient, honest and professional
- Flexible, concerned about getting the job well done, independent, attentive to detail, very organized.
- Bioinformatics skills will be an added advantage

Qualifications:

- Should have completed their PhD within the last four years
- Should have background in cancer research
- Should have a minimum of one or two first-authored publications
- Ideal candidates will be competitive for Banting/CIHR bursary applications
- Good knowledge of French and English

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Status:

- Full-time position
- Flexibility of schedule and work from home possible
- Will need to be registered with a program at Université de Montréal
- Salary according to CRCHUM policies

Available: Now, position will be open until filled. Successful candidates will be supported by a bursary from the research supervisor, and will have the opportunities to apply at various competitions for fellowships/bursaries.

Contact info Interested candidates should e-mail their curriculum vitae, cover letter, and a list of 2-3 references to: saima.hassan@umontreal.ca.

Only successful candidates will be contacted for an interview