

Job Description: Research Scientist or Postdoctoral fellow

Richards Lab, Lady Davis Institute, Jewish General Hospital

2021/5/13

Dr. Brent Richards is seeking a Research Scientist or a Postdoctoral fellow for a 1-year contract for the management and execution of cell culture and CRISPR experiments, at the research institute of the Jewish General Hospital, a McGill University teaching hospital.

Successful candidates will work with Dr. Brent Richards' research team at the Lady Davis Institute and the Centre for Epidemiology and Community Studies. In collaboration with graduate students, and external collaborators, the candidate will ensure the smooth and timely execution of cell culture-based research studies.

Successful candidates will work to identify and validate clinically-relevant drug targets for osteoporosis from known GWAS loci, Mendelian and sexually dimorphic genes using CRISPR in osteoblast cell lines by measuring the effect of gene disruption and interference on disease-relevant phenotypic outcomes.

PRINCIPLE DUTIES AND RESPONSIBILITIES:

Management and execution of multiple translational research studies, including but not limited to:

- Cell culture (human cells).
- Gene editing: generation of knock out cell lines using CRISPR Cas9 strategy, including use of lentiviruses when needed.
- Molecular biology and biochemistry techniques: flow cytometry, immunofluorescence, Western Blot, RT-qPCR.
- Analysis of data.
- Organization of maintenance of laboratory infrastructure.
- Acquisition of supplies and inventory control.
- Participation in scientist papers writing.
- Participation in the elaboration of new research projects.
- General administrative tasks.
- The successful candidate may be required to work non-standard hours from time to time, including occasional weekend and statutory holidays as required by on-going experiments.

The candidate will be required to execute these experiments with little supervision.

QUALIFICATIONS:

- PhD in molecular biology, cell biology, genetics or closely related discipline. Alternatively, a MSc in biology with 5 years of work experience.
- Recognized abilities in mammalian cell culture and performance of cell biology experiments. Experience with CRISPR-Cas9 editing is essential.
- Ability to work independently and in team settings.
- Strong organizational skills.
- Ability to handle multiple projects and utilize judgement to prioritize tasks.
- Willingness to learn.
- Strong written communication skills.
- Use of liquid handling robot is an asset.
- Bilingualism preferred (French/English), but ability to work in either language is required.

ELIGIBILITY REQUIREMENTS: applicants must be able to work legally in Canada (Canadian citizens or permanent residents, or work permit holders).