



UNIVERSITY
OF MANITOBA

Rady Faculty of Health Sciences
Max Rady College of Medicine
Biochemistry and Medical Genetics

Postdoctoral Fellow Position

POSITION OVERVIEW:

The postdoctoral fellow will work in a multidisciplinary team investigating epigenetic processes in normal and cancer cell states. The projects investigate the genomic landscape of histone modifications and chromatin modifying enzymes (protein arginine methyltransferases 1/5, DOTL1) in active and repressed states. The project will be done jointly with the *Lakowski Lab* in the Faculty of Pharmacy, University of Manitoba. This position will initially be for 1 year, and based on performance, be expended for several more years.

QUALIFICATIONS AND EDUCATION REQUIREMENTS

- PhD in Biochemistry, Molecular Biology or related field.
- Strong background in epigenomic research with expertise in the chromatin immunoprecipitation (ChIP) assay and ChIP-Seq.
- Experience with gene editing (CRISPR-Cas9), chromatin accessibility assays and HiC assays are a plus.

DEPARTMENT DESCRIPTION

The Department of Biochemistry and Medical Genetics is located on the Bannatyne Campus, the main medical and health sciences campus of the University of Manitoba. The department is home to biochemistry, molecular biological sciences, and medical genetics expertise, practiced in an intellectually enriching research and teaching environment in the Max Rady College of Medicine and Faculty of Graduate Studies.

The *Davie lab* explores the role of chromatin modifiers in regulating gene expression. His research group has a long-term interest in the chromatin structure/function, epigenetic regulation, nuclear matrix, nuclear organization, chromatin modifying enzymes including histone deacetylases, kinases, methyltransferases, and histone modifications.

HOW TO APPLY? Interested applicants should send their applications as one single .pdf file to Dr Jim Davie (Jim.davie@umanitoba.ca), with the following information:

- The subject of the email should be "Postdoc EpigenBMG"
- Two-page CV
- Publication List
- One page Research Summary

ABOUT THE CITY

Manitoba encompasses prairie, boreal plains, boreal shield, taiga shield, Hudson plains, and southern arctic ecozones offering a wide range of research as well as recreational opportunities. The city of Winnipeg is located at the confluence of three rivers: Seine, the Red River, and Assiniboine. Its population is diverse, reflecting multiple waves of immigration. Its urban forest is a noteworthy treasure. Distinctive historical buildings bear witness to the city's prominence during the Wheat Boom of the late 19th and early 20th centuries, but today the city and provincial economies are diverse. Winnipeg is vibrant and affordable. It boasts a lively arts scene, including a major symphony orchestra, the Royal Winnipeg Ballet and Qaumajuq - the Inuit Art Centre at the Winnipeg Art Gallery.