



PhD positions are available in the [laboratory directed by Dr. Colin Crist](#) at the [Lady Davis Institute for Medical Research](#) and the [Department of Human Genetics, McGill University](#) in Montreal, Canada.

Our research program aims to understand the molecular mechanisms that underlie skeletal muscle development and regeneration, with the overarching goal to discover novel pathways that may be targeted therapeutically to promote skeletal muscle regeneration. Available research projects include:

1. *Ex vivo* and *in vivo* expansion of muscle stem cells for cell-based therapies. Suitable for candidates interested in developing therapeutic molecules, drug screening, and adult muscle stem cells.
2. Regulation of muscle stem cell fate decisions by rearrangement of 3D genome architecture. Suitable for candidates interested in how muscle stem cell are specified during development, with mouse embryology and derivation of myogenic progenitors from pluripotent stem cells as experimental paradigms.

We are committed to training the next generation of scientists with future potential for leadership positions in academia or industry. Students with like-minded career aspirations are encouraged to apply. Successful candidates will be highly motivated, will be committed to careful experimentation, and will have good written and oral communication skills. Although some wet lab experience will be beneficial, we will provide you with exceptional training in stem cell biology, molecular biology, genetics and preclinical mouse models of muscle disease.

To apply, please send a CV, transcripts (unofficial are fine), and names/contact information for 2 to 3 referees to Dr. Colin Crist (colin.crist@mcgill.ca). Cover letters/email should specify your interest in stem cell research, regenerative medicine and your short (5 years) and long term (10-20 years) academic/career objectives.