Two graduate student positions are available in my lab (starting April 2016) to study gene regulation by covalent histone modifications and the impact of these mechanisms on human disease. We focus on three general questions: (1) What are the functions of histone modifications in gene expression? (2) How are patterns of histone modifications established at active genes? (3) Can we target these regulatory mechanisms in treating human disease? We use classical and chemical genetics, genomics, biochemistry, and proteomics approaches in yeast and mammalian model systems to elucidate the molecular functions of histone modifications and their relevance to disease.

I am seeking highly motivated individuals with an interest in answering basic biological questions in pursuit of a PhD. Experience with molecular biology and biochemistry techniques would be a valuable asset, and experience with yeast and/or mammalian cell culture is preferred. Interested applicants should send a cover letter and CV to jason.tanny@mcgill.ca

References:


