December, 2016

NIH-funded Post-doc position available in the McCallion Lab – Johns Hopkins McKusick-Nathans Institute of Genetic Medicine

We have an opportunity for an ambitious and collegial post-doctoral fellow to acquire a world class training and establish the platform for highly successful scientific career.

My group employs cutting edge genomic and functional genetic approaches in mice, zebrafish and cultured cells, integrating them with computational biology to connect non-coding sequence variation with a better understanding of disease risk and drug response.

Exploring the role of regulatory (noncoding) variation in neurological disease - Regulatory mutations underlie an array of human diseases. Our work focuses on the use of chromatin and transcriptomic (bulk and single cell RNA-seq) data to distinguish functional from non-functional variation and to inform the cellular context in which disease variation acts. Using transgenic reporter mice that mark specific neural and glial lineages we leverage these data to identify and validate likely functional variation that contributes to the risk of disorders like Parkinson’s Disease, Schizophrenia and addictive behaviors.

The successful candidate will be expected to take a leading role in the implementation of studies to explore the genesis and application of cell-specific chromatin catalogs and regulatory vocabularies for specific neuronal/glial subtypes, and their application to understanding the impact of disease-associated variation.

Candidates will be encouraged to seek independent fellowship funding but this is not a requirement for selection. The PI has a strong track record of mentoring successful young scientists and is committed to career development and success of all his trainees. The successful applicant should be committed, curious and driven to achieve their full potential and seek the same for the people with whom they work. They should also possess a strong track record of publication.

To apply, please reach out to the PI by email (andy@jhmi.edu), submitting a c.v. (inc. list of references) and cover letter describing research experience and interests.