

Postdoctoral Position in Complex Disease Genetics

Johns Hopkins University School of Medicine, Baltimore, MD

A Postdoctoral position is available immediately in the Arking laboratory at the Johns Hopkins University McKusick-Nathans Institute of Genetic Medicine in the area of complex disease genetics. Candidates will apply methods of genome analysis to large-scale human datasets with the primary goal of identifying and characterizing genetic variants that modify risk for human disease with a particular emphasis on genetic mechanisms underlying complex traits. The Arking Lab is actively involved in researching cardiovascular genomics with a focus on electrophysiology and sudden cardiac death as well as autism genomics. In addition, a large focus of the lab's research efforts center around the analysis of mitochondrial DNA copy number (mtDNA-CN) and heteroplasmy as they pertain to human disease.

We are seeking motivated individuals to analyze data from advanced molecular technologies including genomic microarrays and next-generation sequencing data with a focus on genome-wide association studies (GWAS) and epigenome-wide association studies (EWAS). Further, we seek to integrate genetic data with systems biology networks and pathways to further understand the impact human genetic variation has on gene regulatory function.

The ideal candidate should have relevant expertise in human genetics/genomics and/or computational biology. The applicant should be a highly motivated, independent researcher who has completed their PhD within the last 2 years in a relevant field (Statistical Genetics, Human Genetics/Genomics, Bioinformatics, Computational Biology). Though not required, the ideal applicant would be experienced in relevant coding languages (R, Unix, Perl, Python, etc.).

The Institute of Genetic Medicine (IGM) is a leading and innovative, state-of-the-art facility located in Baltimore, Maryland with a focus on the use of genetic medicine to treat and prevent disease.

Interested applicants should send a cover letter and curriculum vitae as well as the names of 3 references to arking@jhmi.edu.

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