**Post-doctoral position in Epigenomics and Genetic Epidemiology**

Genetic Variation and Human Diseases Laboratory, Inserm-University Paris Diderot (U946), Paris, France (Director: F Demenais)

In the framework of a collaborative research programme on epigenomics of complex diseases between the Genetic Variation and Human Diseases Laboratory (U946) in Paris (France) and The McGill University and Genome Québec Innovation Centre in Montreal (Canada), we are seeking to recruit a highly motivated Postdoctoral Research Associate to tackle challenges in next-generation epigenomics within a dynamic multi-disciplinary environment.

The successful candidate will exploit rich epigenetic, genotypic, phenotypic and environmental data. Epigenetic data will consist of DNA methylation profiles derived from blood tissue samples using next-generation sequencing techniques. The candidate will perform epigenome-wide association (EWAS) analysis, genome-wide association analysis (GWAS), integration of genetic, epigenetic and environmental data to identify epigenetic modifications (differentially methylated regions) associated with asthma phenotypes and to elucidate how epigenetic marks mediate the effects of genetic and environmental factors on disease. The candidate will implement contemporary computational and statistical approaches for analyzing epigenetic and genetic data.

Minimum qualifications include a Ph.D. in genetic epidemiology, statistical genetics, biostatistics, epidemiology, bioinformatics or computational sciences. The successful applicant will be expected to have strong programming, analytic and data management skills with demonstrable experience in R, Perl, Python or equivalent. A strong research record in genetic epidemiology including experience in genetic association (GWAS), post-GWAS analysis and possibly epigenome-wide association (EWAS) is highly desirable.

The U946 laboratory, located on Hospital Saint-Louis Campus in Paris, has internationally renowned expertise in genetic epidemiology and statistical genetics of multifactorial diseases. The main objectives of U946 research program are to identify the genetic and environmental factors involved in multifactorial diseases and to uncover the molecular mechanisms underlying the effects of genes and environment on disease through a multi-omic strategy combining genomics, epigenomics, transcriptomics, metabolomics. The lab is actively involved in large scale genomic studies in the context of international consortia.

The position is open for 18 months (with possible extension) and can start immediately.

Applicants should send a CV, a motivation letter and the names/e-mails of at least two referees to recrutement.u946@inserm.fr <mailto:recrutement.u946@inserm.fr>.

Further information can be obtained at the same address.