PhD in Genetic Epidemiology

Duration
3 years

Start of the contract
September 2020

Deadline for application
31/07/2020

Location
Institut Pasteur de Lille,
1 rue du Professeur Calmette
59019 Lille Cedex,
France

Description
A 3-year PhD position is available from September 2020 at Inserm UMR1167 unit – Risk factors and molecular determinants of aging-related diseases –, which is part of the Distalz Labex. The successful candidate will work in Team 3, led by Doctor Jean-Charles Lambert. This multidisciplinary team is a world leader in genetic epidemiology of Alzheimer's disease (AD).

The objective of the PhD project is to better characterize the genetic component of AD and to investigate the impact of sex-related genetic factors on AD risk (including the X and Y chromosomes, and gene-sex interactions). This project will be conducted on large datasets of AD cases and controls with genome-wide genotyping data, including the French EADI dataset (~ 2,400 AD cases and 6,300 controls) and the European EADB dataset (~20,000 AD cases and 20,000 controls). Whole-exome and whole-genome sequencing data will also be considered. The project will be conducted in collaboration with our partners from the international and European consortia IGAP, EADB and ADES.

Required qualifications and skills
Master 2 in biostatistics, epidemiology, genetic epidemiology or related subjects
Programming skills in R as well as other languages such as Perl, Python, C/C++
French or English proficiency (written and spoken)
Knowledge of the Unix/Linux environment is a plus

Interested candidates should send a CV and a cover letter (in French or in English) to Céline Bellenguez (celine.bellenguez@pasteur-lille.fr).