

July 30th 2019

PhD POSITION (M/F)

The Innovative Training Network (ITN) NEUcrest is hiring a PhD candidate to work on neural crest, neurocristopathies and neural crest-related cancers at *Imagine* institute of Genetic Diseases, Paris, France (<https://www.institutimagine.org/>).

Environment

Funded by an EU grant (ITN network - pending Grant Agreement signature due in August 2019), the NEUcrest project is an **ambitious multidisciplinary research-training network on neural crest development, neurocristopathies, and neural crest-related cancers**. The network involves 11 main interacting participants and 9 partners, from hospitals, academic laboratories and industries, from 7 European or EU-associated countries. We are seeking for a motivated PhD candidate to work within the team “Embryology and genetics of human malformation” headed by S. Lyonnet and J. Amiel under the supervision of N. Bondurand and V. Pingault.

Job description

Within the NEUcrest network, the PhD candidate will be involved in a project aiming at better define the molecular and cellular basis of **Waardenburg syndrome** (WS, defined by pigmentary, hearing and enteric nervous system defects due to alteration of neural crest development). The PhD candidate will:

- (1) analyse data issued from local exome sequencing and public databases.
- (2) use pre-existing hiPSC differentiation protocols (and optimize protocols during the project) to analyse functional consequences of known and newly identified WS genes.
- (3) perform RNA-seq analysis of hiPSCs with specific SOX10 mutations to delineate origin of phenotype variability.
- (4) integrate newly identified WS genes within the NC-GeneNetwork.

Profile

The successful candidate should have research skills on exome bioinformatics analysis, iPSCs, molecular biology and Omics.

Employment

The remuneration will be in line with the European Commission rules for Marie Skłodowska-Curie grant holders (Early-stage researchers, Initial Training Network).

Transnational mobility of researchers is a pre-requisite, i.e. applicants should not have resided or worked/studied for more than 12 months in the 3 years prior to the appointment in the country of the host institution (France).

Project starts 1st of November 2019.

Contact

Interested candidates should submit a motivation letter, curriculum vitae and references to: **nadege.bondurand@inserm.fr** and **veronique.pingault@inserm.fr**