

PhD on Expression Signatures of Alzheimer's disease

Freie Universität Berlin, Germany

Group of Katja Nowick

Our group "Human Biology and primate Evolution" investigates the molecular evolution of humans using state-of-the-art experimental and computational methods. Our focus is on differences in gene regulation, evolution of transcription factors and non-coding RNAs and their influence on the evolution of the brain, its development and functions.

The PhD student will participate in a project investigating molecular signatures of Alzheimer's disease. In particular, the student will study expression patterns of single neurons derived from Alzheimer's patients and controls. The goal is to determine mono-allelically expressed genes and to determine how their expression changes with Alzheimer's progression. The project will include the analysis of genomic and transcriptomic data, as well as the analysis of co-expression networks and gene regulatory factors.

Requirements for the position are a Master in Bioinformatics or Biology or another relevant field. The ideal candidate would have a strong interest in neuroscience and evolution and experience in the analysis of Next Generation Sequencing data.

If interested, please send a motivation letter including your CV and two reference letters to katja.nowick@fu-berlin.de.

