

PhD POSITION

The Developmental Neurobiology group located in Brussels, Belgium is looking for a highly motivated student interested in a PhD program in neuro-oncology. The position is funded for 2 years (renewable one time).

The main purpose of research in our laboratory is to understand the mechanisms underlying the development and disease of the nervous system, with emphasis on the role of planar cell polarity (PCP) and cytoskeleton.

The aim of the PhD project is to understand the role of a PCP effector in glioblastoma, and its potential implication in chemoresistance. This will be achieved through:

1. Molecular characterization of brain tumors in a newly developed mouse model for glioblastoma;
2. Analysis of mutations and copy number variations of candidate genes in human glioblastoma samples.

The candidate will conduct bioinformatic analysis on RNA sequencing, targeted genome sequencing, and The Cancer Genome Atlas (TCGA) data.

The background of the candidate should be in neurobiology and/or bioinformatics. Candidates with expertise in OMICS data analysis will be preferred.

For applications, please email to fadel.tissir@uclouvain.be

Selected publications

1. Boucherie C, Boutin C, Jossin Y, Schakman O, Goffinet AM, Ris L, Gailly P, Tissir F. Neural progenitor fate decision defects, cortical hypoplasia and behavioral impairment in *Celsr1*-deficient mice. *Mol Psychiatry*. 2017.
2. Damiani D, Goffinet AM, Alberts A, Tissir F. Lack of *Diaph3* relaxes the spindle checkpoint causing the loss of neural progenitors. *Nat Commun*. 2016;7:13509.
3. Chai G, Zhou L, Manto M, Helmbacher F, Clotman F, Goffinet AM, Tissir F. *Celsr3* is required in motor neurons to steer their axons in the hindlimb. *Nat Neurosci*. 2014;17(9):1171-9.
4. Boutin C, Labedan P, Dimidschstein J, Richard F, Cremer H, André P, Yang Y, Montcouquiol M, Goffinet AM, Tissir F. A dual role for planar cell polarity genes in ciliated cells. *Proc Natl Acad Sci U S A*. 2014;111(30):E3129-38.
5. Zhou L, Bar I, Achouri Y, Campbell K, De Backer O, Hebert JM, Jones K, Kessar N, de Rouvoit CL, O'Leary D, Richardson WD, Goffinet AM, Tissir F. Early forebrain wiring: genetic dissection using conditional *Celsr3* mutant mice. *Science*. 2008;320(5878):946-9.