

POSITIONS FOR POSTDOCTORAL SCIENTIST

CONSIGLIO LAB

STEM CELL AND NEUROPLASTICITY

The Stem Cell and Neuroplasticity Laboratory, at the University of Barcelona, Spain led by Antonella Consiglio is searching for two postdoctoral candidates.

The primary focus of Consiglio lab is to examine the underlying molecular mechanisms that drive the development of Parkinson's disease (PD). Consiglio lab uses stem cells, including patient-derived induced pluripotent stem cells (iPSCs) derived from idiopathic and familial PD skin cells, aiming to decipher the mechanisms that lead to PD brain cell dysfunction and degeneration (*Embo Mol.Med.* 2012, *Nat. Neuroscience* 2013, *Embo Mol. Med.*2015).

RESEARCH PROJECT 1

Understanding and potentially blocking the pathogenic mechanisms that could underlie the neurodegeneration phenotype identified in our iPSC PD model and in turn examining therapeutic strategies to delay, halt or rescue the neurodegeneration process. This project aims to understand the cellular bases by which Parkinson's disease pathology initiates and spreads throughout the brain during disease progression. The approach will entail the use of transplantation procedures in toxin and alpha-synuclein-based rat models of PD.

RESEARCH PROJECT 2

Generating human microglia and understand the effects of disease-associated genetic risk factors on microglial function and PD pathology. This approach will entail the use of different brain cell type combinations in a petri dish to investigated non-cell autonomous aspects of PD.

REQUIREMENTS

Applicants are expected **to be highly motivated and creative scientists, have good organization skills and be able to interact and collaborate within the research group**. Candidates must hold a PhD in a relevant discipline with an outstanding publication record (at least one manuscript as first author in a journal of impact factor >6). Previous experience working with **mouse models of Parkinson's disease, stem cells, immunology, mitochondrial cell biology, and protein aggregation will be highly valued**.

WE OFFER

The opportunity to contribute to cutting edge research projects. The opportunity to work closely with an international team of scientists and work in one of the leading labs in Europe.

OTHER JOB DETAILS

Full time two-year contract, immediate start, salary depending on experience. Applications must include a CV with a cover letter and contacts for 2 references. Please apply by email to: aconsiglio@ibub.pcb.ub.es or afaella@ibub.pcb.ub.es

To find out more information about our lab, please direct yourselves to our website: www.consigliolab.com