



- **ORGANISATION/COMPANY**
Université Paris Sud – Université Paris Saclay (France)
Co-tutoring with University of Milano (Italy)
- **RESEARCH FIELD**
Medicinal Chemistry – Organic Chemistry
- **APPLICATION DEADLINE**
02/12/2019 23:00 - Europe/Brussels
- **OFFER STARTING DATE**
01/03/2020
- **EU RESEARCH FRAMEWORK PROGRAMME**
H2020 / Marie Skłodowska-Curie Actions
- **MARIE CURIE GRANT AGREEMENT NUMBER**
860070

The PhD position

The PhD fellow chosen for this position will take part in the EU-funded Innovative Training Network TubInTrain. The TubInTrain network has participants from six European countries and encompasses ten academic groups and ten companies committed to creating an outstanding training program for thirteen early stage researchers (ESRs) to elucidate the mechanisms of neurodegeneration associated to microtubules structure and dynamics.

The Early Stage Researcher ESR key tasks will be to manage and carry out the assigned research project, participate in the TubInTrain training and network activities, take PhD courses, write scientific articles and your PhD thesis, participate in national and international congresses and scientific meetings, undertake a research stay at an external research laboratory within the TubInTrain network, and disseminate the obtained scientific results.

In particular, the ESR enrolled in this position, will synthesize mimics of β -strands and β -hairpins to modulate Protein Tau aggregation. He/She will be involved in the synthesis of unnatural scaffolds, i.e. non natural AAs and/or turn mimics, according to the results of the computational design. He/She will perform conformational studies using NMR techniques, and will be involved in the biophysical and biochemical evaluations of the activity of compounds on Tau aggregation (ThT fluorescence spectroscopy, Microscopy, Capillary electrophoresis).

The ESR will be enrolled by the University of Paris Saclay (<https://www.universite-paris-saclay.fr/en>) under the supervision of Prof. Sandrine Ongerì (FLUOPIT/BioCIS, <http://www.biocis.u-psud.fr/?-Molecules-Fluorees-et-Chimie->) and will be awarded a Double Doctorate degree in co-tutelle with the University of Milano (<https://www.unimi.it/>), Italy, under the supervision of Prof. Maria Luisa Gelmi.

The research will involve also 12 months secondments at the University of Milano (synthesis of non natural AAs and/or turn mimics) and 3 months secondments in cell microscopy and super-resolution, at San Raffaele Hospital (<https://research.hsr.it/en/index.html>, Cent. di Imaging Sperimentale,) under the supervision of Dr. Davide Mazza.

Expected commencement is as soon as possible, and in any case before the 1st of March 2020.

Candidate profile

The ideal candidate for this position is a highly motivated, excellent researcher with an MSc degree in organic or medicinal chemistry. A strong interest in biophysical techniques is mandatory. The candidate should enjoy the challenge of novel scientific concepts and have a highly motivated, persistent and result-driven attitude. The candidate should be able to work well both independently and in a interdisciplinary team.

Good oral and written communication skills in English are essential.

Good organisational and planning skills are necessary.

There are strict mobility and eligibility criteria. The candidate must not have resided or carried out your main activity (work, studies, etc.) in France for more than twelve months in the last three years immediately prior to the recruitment – unless as part of a procedure for obtaining refugee status under the Geneva Convention. The position is for an Early-Stage Researcher, so the candidate, at the date of recruitment, must be in the first four years (full-time equivalent research experience) of his/her research career and must not have been awarded a doctoral degree.

Contact information

To get more details please write to sandrine.ongeri@u-psud.fr and marialuisa.gelmi@unimi.it or check the **website www.tubintrain.eu**, where the application can be submitted.