



BE PART OF OUR AMBITION

We are looking for a PhD candidate in Organic Chemistry/Bioimaging (m/f) Isotopics – Marie Curie EU Training program

Your responsibilities

As ESR (Early-Stage Researcher) within the Marie Curie Initial Training Network (ITN) ISOTOPICS you will develop innovative and general isotopic labeling chemistry and radiochemistry to streamline the synthesis of labeled small-molecule drugs and biologics. You will be part of an interdisciplinary research team engaged in the development of novel chemical tools to support *in-vivo* imaging. These imaging methods will involve autoradiography, fluorescence, near-infrared fluorescence (NIRF), MRI and positron emission tomography (PET). Your project will comprise method development and synthesis of novel chemical imaging probes. This includes novel conjugation chemistry for different types of modalities (small molecules, peptides, proteins) using chelates and metal isotopes, as well as fluorophores. Additionally you will also work on new chemical methodologies for isotope labelling including ^2H , ^3H , ^{14}C , PET-nuclides, dyes, etc. Although the primary focus of the project will be in synthetic organic chemistry, you will also examine newly developed labelling strategies to address arising questions on target engagement, binding selectivity or receptor occupancy by conducting *in-vitro* (e.g. stability, tissue binding) and preclinical *in-vivo* studies.

Your qualifications

- Master in Organic Chemistry or Biochemistry
- Profound knowledge in modern organic synthetic methods, peptide chemistry and conjugation chemistry
- Deep interest and fundamental knowledge in Chemical Biology
- Strong team player with analytical skills and interest to work in a highly interdisciplinary area
- Excellent oral and written communication skills
- Very good English language skills, knowledge in German is a plus
- Experience in radiochemistry and molecular imaging is an advantage

The candidates can be of any nationality (European or non-European), but at the time of recruitment, they must not have resided or carried out their main activity (work, studies, etc.) in Germany for more than 12 months in the 3 years immediately prior to the reference date. The candidates should also not be already in the possession of a doctoral degree.

Our offer

The successful candidate will be employed by Sanofi for 36 months under full coverage of the German social security system to pursue a PhD degree to be obtained from the University Paris-Saclay in cooperation with the CEA Saclay/France. Salary and

additional benefits are according to European ITN funding regulations (gross salary max. 35,000 €/year depending on family status). On top of the research carried out in the Sanofi's lab, ISOTOPICS also provides a first-class training program in isotopic labelling and advanced medicinal chemistry including workshops, taught courses and lecture cycles as well as an inter-laboratory secondments plan.

For more details on Isotopics please:

http://www.isotopics-project.eu/Pages/News/Scientific/Isotopics_Project.aspx

For scientific questions you can contact:

Volker Derdau (Volker.Derdau@sanofi.com) or Jens Atzrodt (Jens.Atzrodt@sanofi.com)

If you are interested, please send us your online application.

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