

Vacancies

5 PhD fellowships together towards safer drugs

- 1. Pharmacology:** *Pharmacological profiling of signalling pathways to identify functionally selective 5-HT_{2A} ligands (U+E)*
 - 2. Chemistry:** *Synthesis of conformationally restricted analogues to identify novel functionally selective 5-HT_{2A} ligands (U+E)*
 - 3. Crystallography:** *Crystallisation of receptor-ligand structure complexes to reveal molecular mechanisms of functional selectivity at 5-HT_{2A} (U+S)*
 - 4. Computational drug design:** *Molecular modelling to rationalise and design ligands with functional selectivity at 5-HT_{2A} (U+S)*
 - 5. Database development:** *Development of a public GPCR ligand resource disseminating and enabling receptor research and drug design (U+E)*
- U/E/S: All PhD students start training at the University of Copenhagen (Denmark) Feb 1st 2018, move to Enamine (Kiev, Ukraine) or SARomics (Lund, Sweden) after 1,5 years (except 1 year for PhD 2) and complete the PhD studies after 3 years.

SAFER is an ambitious interdisciplinary European Industrial Doctorates (EID) programme under the Horizon 2020 Marie Skłodowska-Curie Actions (MSCA-ITN-EID, Grant agreement: 765657), which offers competitive salaries and family allowances. PhD students will obtain ample scientific, business and transferrable skills at excellent research environments meriting themselves for international academic or industrial careers.

The ultimate scientific goal is to understand the biological and therapeutic effects, and to develop safer drugs targeting the serotonin 5-HT_{2A} receptor – the primary target for many pharmaceuticals and hallucinogens. SAFER will design and prepare ligands for the receptor, generate and cross-interpret pharmacology and crystallographic data, and construct computational mechanistic models and databases.

Who can apply?

- We are looking for highly motivated individuals with a background in chemistry, pharmacology, crystallography, computational drug design or scientific database development.
- Applicants must hold a relevant Master's degree.
- The candidate must have less than 4 years of research experience and must not have resided or carried out his/her main activity in the country of the host institution for more than 12 months during the last 3 years immediately prior to the recruitment.

How to apply?

Questions can be sent to project manager Professor [Fredrik Björklind](#). The application deadline is October 20th 2017.

Scientific and life environments



Copenhagen, Denmark

Founded in 1479, the University of Copenhagen is the oldest university in Denmark. With 37,000 students and 9,000 employees, it is among the largest universities in Scandinavia and one of the highest ranking in Europe. The University consists of six faculties, which cover Health and Medical Sciences, Humanities, Law, Science, Social Sciences and Theology. Read more at www.sund.ku.dk and www.drug.ku.dk.

Copenhagen is a modern capital with plenty of opportunities in culture, design, architecture, restaurants and a diverse nightlife. At the same time, the city offers beaches, beautiful parks and green nature areas, and the Copenhageners bike everywhere. The Danish society prioritises a good work-life balance, and the work culture is well adjusted for families with children. Read more at <http://ism.ku.dk/>.



Lund, Sweden

SARomics Biostructures is based in Lund, Sweden, conveniently located in the heart of Medicon Valley, one of Europe's strongest biotech clusters. The company was founded in 2006 and is now the No 1 provider of protein 3D structure determination and structure-based drug discovery services in Scandinavia with access to world leading X-ray facilities in the MAX-IV laboratory. Read more at <http://www.saromics.com/>

Lund – The City of Ideas – is one of the oldest cities in Sweden dating back to 990, in addition to the 1 000 years of history Lund is a modern university city with a combination of businesses, students and researchers from around the world which form the unique character of the city. In Lund, you find the charm of a small picturesque, cobble-stoned city, side-by side with big city attractions such as services, shopping, restaurants and cultural events. Lund has been voted the best place to live in Sweden. <https://www.youtube.com/watch?v=Dc7PO9hoSKU>



Kiev, Ukraine

Enamine Ltd was founded in 1991 based on the rapidly increasing demand for new chemical compounds due to increased high throughput screening at the time. In over 15 years Enamine has been a world leading provider of Screening Compounds and Building Blocks. In Enamine, great attention is paid to the development of original and unique chemistry as diverse techniques and methodologies are the main contributors to novel compounds in drug discovery and development. <http://www.enamine.net/>

Kiev, the capital of Ukraine with more than 3 million people is the administrative, economic, scientific, cultural and educational center of the country. The city is known for its beauty and invaluable historical and cultural monuments, the art and architecture of Kiev are considered world treasures. Kiev has a very rich cultural life, with theatre, art and musical events all year a round. Kiev is also the scientific and educational center of Ukraine with several universities and science academies. <http://www.kiev.info/about/general.htm>