

## **ERASMUS Internship in the Košmrlj group at the University of Ljubljana**

Duration: 6 months

Commitment: Full-time

Description: Our group is looking for a passionate, talented, and knowledgeable synthetic organic chemist with proven experience to join a collaborative and innovative team alongside medical professionals (mitochondrial biologists, neuroscientists, and imaging specialists) based at Queen's University in Canada (prof Dr. Stephen Archer, Head of Medicine). You will be responsible for the synthesis of new small molecule apoptosis inhibitors as potential therapeutics for the treatment of COVID-19 (as well as future coronavirus infections) which also target mitochondrial redox sensor proteins (NDUFS2).

Key responsibilities:

- Synthesis of small molecules.
- Material handling and characterization.
- Good lab practice in terms of safety, diligence and accurate record keeping.
- Data analysis, processing, and reporting.
- Research and keeping up to date with drug developments in the sector.
- Collaborating with medical professionals on the project.
- Prepare reports, manuscripts, and presentations.
- Working alongside other students and researchers in the lab and office.
- Carrying out certain duties and tasks to ensure the smooth running of our laboratories.

Key skills and experience:

- Experience with organic synthesis and purification of small molecule intermediates.
- Characterization methods such as NMR, FTIR, melting point determination is beneficial.
- An excellent understanding of organic chemistry and a passion for medicinal chemistry and pharmacy.
- Interest in projects relating to drug design and development.
- Some knowledge of chemical modification for the development of drugs.
- Degree qualified, preferably with a bachelor's qualification in a related field.
- Deadline-oriented, inquisitive, with great follow-up and reporting skills.
- A high level of self-motivation and independence.
- Excellent attention to detail, with the ability to maintain a high level of accuracy.
- Ability to deal with sensitive information with discretion and to maintain confidentiality.
- English level of at least B2.

You will be a part of our international, talented, and inspiring team. You will also get the opportunity to synthesize new drugs which will be tested by international partners.

Compensation:

- No financial compensation

Contact: dr. Ross Jansen-van Vuuren ([Ross.JansenvanVuuren@fkkt.uni-lj.si](mailto:Ross.JansenvanVuuren@fkkt.uni-lj.si))