UNIVERSITÉ CAEN NORMANDIE

CERMN Centre d'Etudes et de Recherche sur le Médicament de Normandie
UR 4258
Bd Becquerel - 14032 Caen cedex - France

http://cermn.unicaen.fr/

PhD Student Position in Iodine Radiochemistry

Project Title: advancing radioiodination techniques using organogermanes precursors

Project Overview: We are seeking a highly motivated and dedicated PhD student to join our research team. This project aims to develop a novel radioiodination technique utilizing organogermanes as radiolabeling precursors. Led by Dr. Thomas Cailly, our synthetic methodology and radiochemistry group specializes in iodine radiochemistry and is dedicated to pioneering new methodologies in the field. The project will involve collaboration with leading experts in organogermane chemistry and medical imaging.

Research Objectives:

- Develop a novel radioiodination technique based on the activation of carbon-germanium bonds.
- Apply the developed methodology to label radio-iodinated imaging agents for central nervous system imaging or theranostic tools.

Responsibilities:

- Design and conduct experiments to optimize (radio)iodination techniques using organogermanes.
- Characterize synthesized compounds using analytical techniques such as HPLC, NMR, and mass spectrometry.
- Collaborate with team members and international partners to achieve project milestones.
- Prepare scientific publications and present research findings at conferences.

Qualifications:

- Master's degree in organic chemistry or a related field.
- Strong background in synthetic organic chemistry.
- Experience with organometallic chemistry is desirable.
- Experience with HPLC is desirable.
- Excellent communication and teamwork skills.
- Ability to work independently and efficiently manage research projects.

(An experience in radiochemistry is not mandatory)

Benefits:

- Full-time PhD position starting in October 2024.
- Access to state-of-the-art research facilities and resources.
- Radiation safety training.
- Opportunities for professional development and international collaboration.
- Supportive research environment with mentorship from experienced faculty members.

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Application Process: Interested candidates should submit a cover letter, CV, academic transcripts, and contact information for two references to Dr. Thomas Cailly at thomas.cailly@unicaen.fr or Pr. Valérie Collot at valerie.collot@unicaen.fr. Review of applications will begin immediately and continue until the position is filled.

About the Research Group: The synthetic methodology and radiochemistry group led by Dr. Thomas Cailly is dedicated to advancing the field of iodine radiochemistry and developing innovative radiolabeling techniques for medical imaging applications. Our collaborative and interdisciplinary approach fosters groundbreaking discoveries and contributes to the advancement of molecular imaging technologies.