

EPSRC Centre for Doctoral Training (CDT) in Molecular Sciences for Medicine (MoSMed)



New methods and applications of targeted degraders in cancer drug discovery Newcastle University

Supervisory Team

- Mike Waring, Newcastle University
- Celine Cano, Newcastle University

Project overview/context

Two studentships will work on the development of new technologies to degrade proteins and to apply them to innovative treatments for cancer within the Medicinal Chemistry group of the Cancer Research UK Newcastle Drug Discovery Centre.

Project 1, led by Dr. Celine Cano, will develop new heterobifunctional degraders (PROTACs) to exploit protein degradation as a potential treatment for prostate cancer.

Project 2, led by Prof. Mike Waring, will develop novel molecules that can induce degradation and new approaches to their synthesis using novel organic chemistry, including DNA-encoded methods.

The studentships are part of the a programme of research between Newcastle University and [Cancer Research Horizons](#), Cancer Research UK's new innovation

Further Information

For further information, please contact the lead supervisor:

[Prof Mike Waring](#)
[Dr Celine Cano](#)

How to Apply

engine for therapeutic innovation, and are aligned with the [Molecular Sciences for Medicine \(MoSMed\) Centre for Doctoral Training \(CDT\)](#) as part of the MoSMed2 programme.

Training & Skills

Both projects will provide ideal training for students wishing to pursue research in drug discovery and will provide training in organic and medicinal chemistry as well as the opportunity to contribute to the discovery of potential new cancer medicines within an integrated drug discovery group.

The students will benefit from bespoke research and life skills training programme through alignment with the Newcastle-Durham MoSMed EPSRC Centre for Doctoral Training.

You must apply through the University's [Apply to Newcastle Portal](#)

Once registered select 'Create a Postgraduate Application'.

Use 'Course Search' to identify your programme of study:

- search for the 'Course Title' using the programme code: **8100F**
- Research Area: Chemistry



Engineering and
Physical Sciences
Research Council

- Select 'PhD Chemistry' as the programme of study.

You will then need to provide the following information in the 'Further Details' section:

- a 'Personal Statement' (this is a mandatory field) - upload a document or write a statement directly in to the application form. Please include the full title of the studentship, the studentship code (**mos2_01**), and how your interests/experience relate to the project.
- the relevant studentship code (**mos2_01**) in the 'Studentship/Partnership Reference' field. **You must include the relevant code for your application to be considered.**
- when prompted for how you are providing your research proposal - select 'Write Proposal'. You should then type in the title of this project. You do not need to upload a research

proposal. **Please specify if you would like to apply to Project 1, Project 2, or both.**

In the 'Supporting Documentation' section please upload:

- An up to date CV.

Please upload all documents in PDF format.

Equality, Diversity and Inclusion (EDI)

Within the MoSMed CDT we are committed to building a diverse community based on excellence and commitment. To that end, in our recruitment of Doctoral Researchers we welcome applications from outstanding candidates of all backgrounds regardless of ethnicity, disability, gender identity, sexual orientation and will consider all applications equally based on merit.

Should you have any queries regarding the MoSMed application process to Newcastle University please contact Craig Hinds, the MoSMed CDT Manager:

mosmed.cdt@newcastle.ac.uk